

WASHINGTON STATE DEPARTMENT OF HEALTH

Washington State Home Visiting Needs Assessment

2017 METHODS
SUPPLEMENT

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Introduction

This report provides the detailed methods section that supports the full Washington State Home Visiting Needs Assessment Report – 2017. The 2017 Assessment replicated the methods used in the federally mandated 2011 Needs Assessment (**Needs Assessments Reports**) and explored a new sub-county analytical process to better inform planning for services across the state.

We developed risk estimates at the school locale and county level as well as by race/ethnicity. Multiple different models provides Home Visiting Programs a “snap shot” of the communities they serve at a county and sub-county level to allow for more targeted service provision. In addition, the analyses allow comparison with the original Needs Assessment completed in 2011 in order to understand how communities and the need for home visiting services has changed. This methods supplement details the methods and results of Objective 1 and 2 from the 2017 Needs Assessment Report (page 5).

Objectives:

- 1a. Estimate, at the county and sub-county levels and by race/ethnicity, the prevalence of key risk factors for families needing home visiting services. Some factors include: measures of maternal and child health, socio-economic status, education, home environment, and community stability
- 1b. Identify county and sub-county areas where the combined risk across multiple indicators in a given community are higher than that of the state overall (high risk communities).
- 1c. Create maps that visualize the distribution of key risk factors and high-risk population areas.
2. Estimate the number of families who are in need of home visiting services by geographic community and race/ethnicity as defined by number of births among low income women who recently delivered a baby.

Methods

Defining Models

In the 2017 Needs Assessment we built three models: county, school locale, and race/ethnicity. We first defined geography by county to mirror the process completed in 2011. Washington state has 39 counties which range widely in population from approximately two thousand in Garfield county to over two million in King county. In order to address the need for sub-county analysis, we also explored a geographic unit of analysis smaller than a county, but large enough to support a home visiting program.

To provide sub-county estimates of the need for home visiting, we defined community by school locales. School locales were developed by the Research and Data Analysis (RDA) group of the Department of Social and Health Services (DSHS). RDA defines locales as a school district or group of similar and geographically adjacent school districts with at least 20,000 residents. These locales provide a consistent floor for the denominator, unlike counties which range in size from approximately 2000 residents to over 2 million. Locales include school districts that are part of a single Education Service District and typically occupy connecting territory. In addition, they have similar population characteristics including proportions of students receiving a free or reduced lunch. Populous counties such as King and Pierce have multiple school locales within their borders, but less populous counties such as Garfield and Franklin are combined to make one school locale. Washington state's 296 school districts collapse into 118 school locales.

Finally, we built a race/ethnicity model with the same race and ethnicity categories used in the 2011 model: Hispanic, Non-Hispanic (NH) American Indian and Alaska Native (NH-AIAN), NH-Asian, NH-Black, NH-Native Hawaiian and Other Pacific Islander (NH-NHOPI), NH-White, and NH-Multi-race.

Data

For the original 2011 Needs Assessment, the domains were predetermined by the Federal government to reflect social determinants of health. For the 2017 Needs Assessment, we first explored additional domains of interest to identify populations in need of home visiting services in consultation with stakeholders. We selected six key domains of interest: maternal and child health, socio-economic status, education, home environment, community stability, and drug and alcohol use. Next, we identified key risk factors within each domain based on alignment with the previous Needs Assessment, recommendations from stakeholders and data availability. Data sources included: American Communities Survey (ACS) 2015 five-year estimates, geocoded Washington state Birth Certificate analytical file, the Smarter Balanced Assessment and Washington State Kindergarten Inventory of Development Skills (WaKIDS) data from Office of Superintendent of Public Instruction (OSPI), the Healthy Youth Survey (HYS), and the Research and Data Analysis Division's (RDA) Community Outcome Risk Evaluation (CORE) Geographic Information System from the Department of Social and Health Services (DSHS). All data used is publically available upon request.

The complete list of risk factors used is below:

Maternal and Child Health (MCH):

- Percentage of births that are low birth weight (Washington State Birth Certificates 2013–2015)
- Percentage of preterm births (<37 weeks) (Washington State Birth Certificates 2013–2015)
- Late/no prenatal care (Washington State Birth Certificates 2013–2015)
- Teen births (age 15–19) (Washington State Birth Certificates 2013–2015)*
- Infant deaths (Washington State Birth Certificates 2013–2015)*

Social and Economic Status

- Proportion living below the Federal Poverty Level (ACS 2011–2015 five-year estimates)
- Proportion unemployed (ACS 2011–2015 five-year estimates)
- Proportion female headed households with children under 6 (ACS 2011–2015 five-year estimates)
- Proportion of households with limited English proficiency (ACS 2011–2015 five-year estimates)

Education

- Third Grade English Language Arts, Smarter Balanced Assessment (SBA) (OSPI, 2015)
- Third Grade Math, SBA (OSPI, 2015)
- Washington Kindergarten Inventory of Development Skills (WaKIDS) (OSPI, 2016)

Home Environment

- Domestic Violence Offences (RDA's CORE estimates from 2011–2015)^
- Victims of Child Abuse and Neglect Accepted Referrals (RDA's CORE 2011–2015)^

Community Stability

- Percentage of elementary school students who did not remain enrolled for the entire school year (OSPI, 2015)^
- Proportion of population that has moved to a different county within the state in past year (ACS 2011–2015 five-year estimates)^

Drug and Alcohol Use

- 10th Grade binge drinking (HYS, 2016)
- 10th Grade drug use including marijuana (HYS, 2016)

*Data not available in the school locale model

^Data not included in the race/ethnicity model

Analytical Approach

For the 2017 Needs Assessment we used two different approaches to select the final set of indicators for the indices. The first approach mirrored the indices used in the 2011 Needs Assessment. We made small changes to the previously used indicators included in the Socio-economic Status (SES) domain and added WaKIDS data from OSPI that was unavailable during the 2011 assessment (Original Model). This approach provided an almost direct comparison between both assessments at the county level to identify changes in community risk over the past six years. The second approach explored using community stability indicators and excluded the Health Youth Survey (HYS) drug and alcohol use data (Exploratory Model). After examining the results, we removed the indicator “proportion of population that moved to a different county in the past year” from all analyses because it was not correlated with other risk factors used in the indices. With the remaining 17 indicators, we summarized them into indices to estimate the risk or need for home visiting services.

To build the indices, we first estimated the prevalence of each indicator at the county and locale level and by race/ethnicity. Next we calculated the risk ratio using the state prevalence as the comparison group. Third, we log transformed the risk ratios to a common scale to facilitate averaging across multiple indicator measures. Finally, we created indices by averaging the log transformed risk ratios.

Two different analytical methods aggregated the indicators in our most recent assessment. The first method averaged all risk factors together such that each risk factor was weighted equally. In the second method, the indicators in each domain were averaged, followed by all domains being averaged together. This approach weighted each domain equally such that domains with more indicators did not have a larger impact on the overall index than domains with fewer indicators. For each model, the index summarizes the risk to a single value (score) between -1 and 1. Values closest to -1 indicated lowest risk and values closest to 1 indicated highest risk. **Table 1** notes which risk factors were included in each index.

For the geographic models, the index scores were divided into quintiles representing the highest, higher, neutral, low and lowest risk groups. For the county analysis, there were approximately eight counties in each quintile. For school locale analysis, there were approximately 24 locales in each quintile. Because only 7 race/ethnicity categories were used, the results of the race/ethnicity model were not divided into quintiles. By using multiple approaches to select indicators and multiple methods to aggregate indicators into overall index scores we were able to view how individual indicators could influence final results.

Finally, we estimated the number of low income births in each county and locale and by race/ethnicity from 2013-2015 as a proxy for the numbers of families potentially in need of home visiting services. The numbers of low income births were also divided into quintiles representing the highest, higher, neutral, low and lowest absolute number of families potentially in need of services.

Sensitivity Analyses

Due to non- or low participation by some local entities, in either the Healthy Youth Survey or law enforcement reports, data for domestic violence, drug use, and binge drinking are missing for 42 out of 118 school locales and 15 out of 39 counties. School locales and counties with missing data were still included in the indices using the subset of risk factors available in the geography. As sensitivity analyses, we created indices that excluded domestic violence and drug and binge drinking data. Due to the small number of teen births (15–19 years of age) and deaths to infants, stable rates could not be calculated for most locales. Therefore these two indicators are not used in the locale analysis.



Table 1 (a): Risk Factors Included in County Indices

	County Index 1	County Index 2	County Index 3	County Index 4*	County Index 5*
Maternal and Child Health (MCH)					
Low Birth Weight (LBW)	X	X	X	X	X
Preterm	X	X	X	X	X
Late/No Prenatal Care	X	X	X	X	X
Teen Births	X	X		X	
Infant Mortality	X	X		X	
Socio-Economic Status (SES)					
Families in Poverty	X	X	X	X	X
Unemployment	X	X	X	X	X
Limited English	X	X	X	X	X
Female Headed Household Children Under 6	X	X	X	X	X
Education					
3rd Grade Math	X	X	X	X	X
3rd Grade English Language Assessment (ELA)	X	X	X	X	X
Washington Kindergarten Inventory of Developing Skills (WaKIDS)	X	X	X	X	X
Home Environment					
Domestic Violence	X	X	X	X	X
Child Abuse	X	X	X	X	X
Community Stability					
Moved Counties	Removed from All Models				
Moved Schools			X		X
Drug and Alcohol Use					
Drug Use	X			X	
Binge Drinking	X			X	

*Denotes an index which is the average of each sub-domain's average. All other indices average all risk factors together.

Defining Indices

- County indices and Locale indices are both numbered 1 to 5. The methods for each number are the same except where noted.
- County Index 1 and Locale Index 1 both use all available indicators from the MCH, SES, education, home environment and drug and alcohol use domains. The locale indices exclude infant mortality and teen births due to multiple locales having no events. Scores are simple averages of the 16 and 14 indicators for the county and locale indices respectively.
- Drug and binge drinking data was not available for all counties or school locales due to low participation rates in the Healthy Youth Survey by students and/or schools in those areas. For this reason, County Index 2 and Locale Index 2 exclude the drug and alcohol use domain.

- County and Locale Index 3 both include the limited set of MCH indicators available at the locale level, SES, education and home environment indicators. In addition, Locale Index 3 includes community stability.
- County and Locale Index 4 use the same indicators as County Index 1 and Locale Index 1, but are weighted by domain instead of the average of all indicators weighted equally.
- County Index 5 and Locale Index 5 use the same indicators as County Index 3 and Locale Index 3, but are weighted by domain similarly to Index 4.
- Race Index 1 includes all indicators available. Race Index 2 mirrors all the indicators included in Race Index 1 but is the average weighted by domain. Race Index 3 includes MCH, SES, Education indicators, and Race Index 4 uses only the MCH indicators available in the locale model, SES and Education indicators.

Table 1 (b): Risk Factors Included in Locale Indices

	Locale Index 1	Locale Index 2	Locale Index 3	Locale Index 4*	Locale Index 5*
MCH					
Low Birth Weight (LBW)	X	X	X	X	X
Preterm	X	X	X	X	X
Late/No Prenatal Care	X	X	X	X	X
Teen Births					
Infant Mortality					
SES					
Families in Poverty	X	X	X	X	X
Unemployment	X	X	X	X	X
Limited English	X	X	X	X	X
Female Headed Household Children Under 6	X	X	X	X	X
Education					
3rd Grade Math	X	X	X	X	X
3rd Grade English Language Assessment (ELA)	X	X	X	X	X
Washington Kindergarten Inventory of Developing Skills (WaKIDS)	X	X	X	X	X
Home Environment					
Domestic Violence	X	X	X	X	X
Child Abuse	X	X	X	X	X
Community Stability					
Moved Counties	Removed from All Models				
Moved Schools			X		X
Drug and Alcohol Use					
Drug Use	X			X	
Binge Drinking	X			X	

*Denotes an index which is the average of each sub-domain's average. All other indices average all risk factors together.

Table 1 (c): Risk Factors Included in Race Indices

	Race Index 1	Race Index 2*	Race Index 3	Race Index 4
MCH				
Low Birth Weight (LBW)	X	X	X	X
Preterm	X	X	X	X
Late/No Prenatal Care	X	X	X	X
Teen Births	X	X	X	
Infant Mortality	X	X	X	
SES				
Families in Poverty	X	X	X	X
Unemployment	X	X	X	X
Limited English	X	X	X	X
Female Headed Household Children Under 6	X	X	X	X
Education				
3rd Grade Math	X	X	X	X
3rd Grade English Language Assessment (ELA)	X	X	X	X
Washington Kindergarten Inventory of Developing Skills (WaKIDS)	X	X	X	X
Home Environment				
Domestic Violence		Data Unavailable		
Child Abuse		Data Unavailable		
Community Stability				
Moved Counties	Removed from All Models			
Moved Schools		Data Unavailable		
Drug and Alcohol Use				
Drug Use	X	X		
Binge Drinking	X	X		

*Denotes an index which is the average of each sub-domain's average. All other indices average all risk factors together.

Results

County Model

County Index 1 (**Map 1** and **Table 2**) includes all available indicators used in the 2011 Needs Assessment and averages all indicators equally. The seven counties in the highest quintile of risk include Yakima, Adams, Franklin, Grant, Grays Harbor, Ferry, and Pacific. Of these, only Yakima was in the highest quintile for number of low-income births.

County Index 2 uses the same indicators as Index 1, but excludes drug use and binge drinking due to missing data. Of the eight highest risk counties identified in Index 2, six were also in the highest risk quintile for Index 1, but Cowlitz and Okanogan were only in the highest risk for Index 2. Ferry dropped out of the highest risk quintile for Index 2 (**Map 2**).

Table 2: County Indices

County Name	Low Income Births 2013–2015	Index 1	Index 2	Index 3	Index 4	Index 5	Percentage Risk Factors Above the State Mean	Percentage Risk Factors in Top Quintile	Total Risk Factors Measured
Adams	956	0.29	0.29	0.31	0.25	0.25	86%	71%	14
Asofin	442	0.07	0.02	-0.07	0.15	0.02	75%	44%	16
Benton	4494	0.06	0.07	0.04	0.02	0.03	69%	19%	16
Chelan	1918	0.03	0.03	0.02	0.02	0.01	56%	19%	16
Clallam	1249	0.13	0.12	0.05	0.15	0.10	75%	38%	16
Clark	7705	-0.08	-0.08	-0.07	-0.07	-0.07	38%	0%	16
Columbia	60	-0.12	-0.08	-0.15	-0.19	-0.14	38%	25%	16
Cowlitz	2098	0.16	0.16	0.12	0.19	0.16	94%	44%	16
Douglas	1049	0.02	-0.03	-0.03	0.04	-0.05	56%	25%	16
Ferry	136	0.20	0.07	-0.04	0.29	0.01	69%	63%	16
Franklin	3383	0.26	0.26	0.27	0.23	0.22	71%	57%	14
Garfield	40	-0.33	-0.36	-0.35	-0.19	-0.25	36%	7%	14
Grant	3332	0.24	0.24	0.24	0.25	0.24	75%	50%	16
Grays Harbor	1245	0.21	0.19	0.18	0.23	0.20	88%	56%	16
Island	1075	-0.13	-0.16	-0.17	-0.12	-0.16	50%	6%	16
Jefferson	337	-0.03	-0.10	-0.15	0.03	-0.09	56%	31%	16
King	25750	-0.18	-0.18	-0.14	-0.20	-0.16	13%	6%	16
Kitsap	3597	-0.14	-0.13	-0.15	-0.15	-0.13	25%	0%	16
Kittitas	599	-0.14	-0.18	-0.16	-0.09	-0.14	31%	6%	16
Klickitat	399	0.08	0.08	0.06	0.11	0.09	62%	31%	13
Lewis	1700	0.14	0.15	0.08	0.14	0.10	81%	31%	16
Lincoln	149	-0.38	-0.33	-0.45	-0.37	-0.36	31%	6%	16
Mason	1248	0.12	0.11	0.07	0.12	0.08	69%	31%	16
Okanogan	1134	0.16	0.16	0.20	0.16	0.19	75%	44%	16
Pacific	338	0.17	0.18	0.11	0.17	0.15	81%	38%	16
Pend Oreille	244	0.12	0.10	-0.04	0.17	0.05	75%	50%	16
Pierce	16963	0.06	0.07	0.07	0.07	0.09	75%	13%	16
San Juan	179	-0.38	-0.40	-0.43	-0.37	-0.43	19%	6%	16
Skagit	2668	0.09	0.10	0.09	0.11	0.11	88%	6%	16
Skamania	168	0.04	0.08	0.08	0.11	0.19	60%	27%	15
Snohomish	11113	-0.09	-0.09	-0.05	-0.08	-0.05	13%	6%	16
Spokane	10463	0.02	0.02	-0.00	0.05	0.04	75%	6%	16
Stevens	808	0.03	0.00	-0.04	0.09	0.02	69%	31%	16
Thurston	4131	-0.06	-0.07	-0.09	-0.07	-0.09	25%	0%	16
Wahkiakum	48	-0.11	-0.10	-0.26	-0.12	-0.20	50%	31%	16
Walla Walla	1136	0.16	0.12	0.07	0.18	0.08	75%	25%	16
Whatcom	3449	-0.07	-0.06	-0.05	-0.05	-0.04	38%	0%	16
Whitman	573	-0.20	-0.18	-0.18	-0.21	-0.20	25%	6%	16
Yakima	9781	0.30	0.32	0.30	0.29	0.28	94%	63%	16



Index 1 = Original model using all covariates average together
 Index 2 = Original model excluding HYS data
 Index 3 = Exploratory model uses MCH indicators from the locale model and no HYS data
 Index 4 = Original model of Index 1 averaging sub indices together
 Index 5 = Exploratory model of Index 2 averaging sub indices together

County Index 3 (**Map 3**) excludes infant mortality and teen births as well as HYS data. The eight counties in the highest quintile of risk include, in order: Adams, Yakima, Franklin, Grant, Okanogan, Grays Harbor, Cowlitz, and Pacific. Of these eight, only Yakima is in the highest quintile for number of low-income births. Unlike County Indices 1 and 2, County Index 3 identifies Pierce County as higher risk.

County Index 4 and 5 (**Maps 4** and **5** respectively) use the same indicators as County Index 1 and 2, but the indicators are weighted by domain. Six of the eight counties identified as highest risk in Index 4 were also identified as highest risk in Index 1. The same results were found for Index 5: seven of the eight counties identified as highest risk in Index 5 were also in the highest risk group for Index 2.

Map 6 is a depiction of the proportion of risk factors in the highest risk quintile in the community. For example, in Grays Harbor 9 of the 16 (56%) indicators measured were in the top quintile of risk for Washington State. Adams, Ferry, Yakima, Franklin, and Grays Harbor were all in the top quintile with the highest proportion of risk factors in the top quintile of risk in the community. Therefore, these communities are experiencing a density of risk spread across many risk factors instead of their high risk status in the indices being driven by a single or small collection of risk factors. Only one county, Yakima, was in the top quintile for number of low-income births, a proxy measure of total families in need of services.

Of the eight counties with the highest number of low-income births, Yakima was the only county identified in the highest risk quintile for any county index. King County had the largest number of low-income births but was in the lowest quintile for most risk indices. In addition, Snohomish, Clark, and Thurston were all in the low risk quintile for most indices despite having large numbers of low-income births. Franklin, Grant, and Cowlitz counties were in the second highest quintile for low-income births and were in the highest risk group for most indices.

School Locale Model

School Locale Index 1 is a replication of the indicators used in the original 2011 Needs Assessment (**Table 3**). The geographic distribution of highest risk areas identified the Spokane metro area, South King, and Pierce County along the I-5 corridor, coastal regions including Grays Harbor and Pacific county, Clallam and Jefferson county on the Olympic Peninsula, and large portions of central–eastern Washington as those areas in the highest risk group. Of the 24 highest risk school locales, nine school locales were also in the highest quintile for number of low-income births including: Yakima, Toppenish, Clover Park, Sunnyside, Franklin Pierce, Tacoma, Pasco, Highline, and Spokane school districts (**Map 7**). School Locale Index 2 removes drug and alcohol use from the indicator list and did not substantively change the results from Index 1 (**Map 8**).

School Locale Index 3 is based on indicators from the exploratory model. The results of this index mirror the findings of Index 1 (**Map 9**). Of the 24 highest risk school locales identified by Index 1, 21 were in the highest risk group for Index 3, and the remaining three were in the second highest risk group. The locales with the highest risk were grouped in four geographic areas of the state: the Spokane metro area, South King, and Pierce county along the I-5 corridor, coastal areas in Grays Harbor and Pacific county, and large areas of central-eastern Washington. Of the 24 highest

risk school locales, 11 school locales were also in the highest quintile for number of low-income births including: Yakima, Toppenish, Clover Park, Sunnyside, Franklin Pierce, Tacoma, Pasco, Highline, Spokane, Mukilteo, and Auburn school districts (**Table 3**).

School Locale Indices 4 and 5 use the same indicators as Indices 1 and 2, but are weighted by domain. The results are very similar; of the 24 highest risk school locales in Index 4, 22 were identified in the highest risk group for Index 1 (**Map 10**). Of the 24 highest risk school locales identified by Index 5, 19 were in the highest risk quintile for Index 2 (**Map 11**).

Map 12 is a depiction of the proportion of risk factors in the top quintile in the community. Areas around Spokane, Pierce county, south-central Washington including sections of Yakima, Klickitat, Benton, Franklin, Grant and Okanogan counties, and areas along the Pacific coast including Clallam, Jefferson, Grays Harbor, and Pacific counties were all identified as having high concentrations of risk. Of the 18 school locales in the top quintile of concentrated risk, eight were also in the top quintile for number of low-income births: Yakima, Toppenish, Sunnyside, Tacoma, Spokane, Franklin Pierce, Clover Park, and Pasco (**Table 3**).

Race/Ethnicity Model

Race/Ethnicity Index 1 includes all indicators used in the original 2011 Needs Assessment. Non-Hispanic Native Hawaiian and Other Pacific Islanders (NH-NHOPI) were at highest risk. Non-Hispanic American Indian and Alaska Natives (NH-AIAN), Hispanics, and NH-Black communities were also at high risk compared to Washington state-at-large. The results were similar for Index 2 which is weighted by domain. The NH-AIAN community had the largest number of risk factors in the top quintile of risk (**Table 4**).

Discussion

Interpreting the results

The two geographic models, county and school locale, provide different lenses for describing risk to support planning for distribution of home visiting services across Washington state. The county model provides risk estimates at the same geography used for planning many public health interventions and is similar to the methods used in 2011. With very few exceptions, counties identified as highest risk in the county model contain school locales in the highest risk quintile as well. The results of the county models were consistent across the five different methods (indices). Of the eight counties with the highest number of low-income births (King, Pierce, Snohomish, Spokane, Yakima, Clark, Benton, and Thurston), only one was in the highest risk quintile for any County Index. This suggests that the county indices are better able to identify smaller population counties with high relative risk compared to the state, than counties with diverse, large populations and pockets of high risk.

The locale model provides the ability to identify high risk areas within counties that on average appear to be low or neutral risk. This is important for larger and diverse counties. While the locale models identified sub-county areas within King, Snohomish, Pierce, and Spokane counties to be high risk, in the county model they are in the neutral and lower risk quintiles. For example Locale Index 1 identified areas in the Spokane metro area as in the highest risk quintile, but in the County Index 1 Spokane is a neutral risk county. In addition, three school locales in South King county were identified as the highest or second highest risk quintile in Locale Index 1, but King county was in the lowest risk category as a whole in County Index 1.

Each of the county and locale indices compares the relative need for home visiting in each geography to Washington state as a whole. It does not capture the total number of potential families in need of services, or absolute need. For example, Seattle and Central Valley school districts are both classified as low risk school locales. However, both are in the top quintile for number of low-income births, suggesting there are thousands of potential families that would benefit from home visiting services.

Finally, the race and ethnicity models highlight the increased risk faced by diverse populations, especially: Non-Hispanic American Indian/Alaska Native, Non-Hispanic Native Hawaiian/Other Pacific Islanders, Hispanic and Non-Hispanic Black communities irrespective of where they live.

Limitations

Interpretation of these results is limited by a few factors. First, only existing data available at a county or sub-county level were able to be included in this analysis; primary data collection was outside the scope of this work. Therefore, important risk factors such as homelessness, drug and alcohol use during pregnancy, mental health, or adverse childhood experiences are not included. In addition, there were missing data for some geographies for certain indicators. Domestic violence data and drug and alcohol data were missing for several geographies due to non-participation in surveys. For rare outcomes such as infant mortality, some geographies experienced zero events over the study time period. To combat this limitation, we conducted sensitivity analyses which

excluded indicators with missing data; however this did not substantially alter the results. There is no general consensus on the minimum population needed to support a home visiting program. School locales require a population of at least 20,000 and serve as our best proxy for that minimum population size. Finally, in the county and even the locale model, the risk was homogenously applied to the geography hiding known differences in risk by communities within the specific locale or county.

Conclusions

The 2017 Needs Assessment provides updated information on the potential need for home visiting services for communities across Washington state leveraging maternal and child health, socio-economic and education data. We used multiple risk indicators and domains to ensure no indicator or set of indicators drove the results. We also explored different geographic models in order to better understand the heterogeneity of risk within larger counties and provided a standardized minimum population size for estimates. Ultimately, the 2017 Needs Assessment is an exploratory study to determine the feasibility of specific indicators and geographies. This study provides the state and local jurisdictions with updated information to plan for services. Jurisdictions with existing services can use the information to review how the risk profile of families may have changed or identify smaller communities of higher need within their service area. In the event that additional funding becomes available, it identifies emerging areas with higher risk and could benefit from home visiting services.

Data Sources

1. Office of Superintendent of Public Instruction. *Washington Kindergarten Inventory of Developing Skills* (2016). Available Online: <http://www.k12.wa.us/WaKIDS/Data/default.aspx>.
2. Office of Superintendent of Public Instruction. *Washington State Report Card Smarter Balanced Assessment* (2016). Available Online: <http://reportcard.ospi.k12.wa.us/TemplateDetail.aspx?domain=SBAC&year=2016-17&schoolid=1&reportLevel=State&yrs=2016-17&gradeLevelId=3&waslCategory=1&chartType=1>
3. Research and Data Analysis, Department of Social and Health Services. *Community Outcome Risk Evaluation (CORE)* (2011-2015). Available upon request.
4. US Census Bureau. American Community Survey Five Year Estimates, 2011-2015 (2016). Available Online: <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>.
5. Washington State Department of Health. *Washington State Geocoded Birth File* (2011-2015). Available upon request.
6. Washington State Department of Health. *Healthy Youth Survey* (2016). Available upon request.

Table 3 (a): Locale Indices (Locales 1– 41)

Largest School District	Locale	Low Income Births 2013–2015	Index 1	Index 2	Index 3	Index 4	Index 5	Percentage Risk Factors Above the State Mean	Percentage Risk Factors in Top Quintile	Total Risk Factors Measured
Spokane	1	5746	0.23	0.19	0.23	0.28	0.26	83%	58%	12
Central Valley	2	1505	-0.15	-0.15	-0.16	-0.12	-0.13	21%	0%	14
Mead	3	747	-0.17	-0.17	-0.26	-0.14	-0.34	38%	23%	13
Pullman	4	400	-0.23	-0.22	-0.03	-0.35	-0.08	21%	21%	14
East Valley (Spokane)	5	611	0.04	0.04	0.03	0.03	0.01	69%	23%	13
West Valley (Spokane)	6	375	0.03	0.03	-0.07	0.07	-0.11	75%	25%	12
Cheney	7	1051	-0.11	-0.11	-0.10	-0.15	-0.11	45%	18%	11
Riverside	8	502	-0.21	-0.21	-0.30	-0.14	-0.26	62%	23%	13
Colville	9	328	0.05	0.03	0.01	0.10	0.00	71%	36%	14
Newport	10	452	0.10	0.07	0.10	0.15	0.18	79%	50%	14
Kettle Falls	11	280	-0.01	-0.02	-0.00	0.05	0.06	67%	42%	12
Reardan	12	275	-0.31	-0.32	-0.24	-0.30	-0.22	21%	0%	14
Colfax	13	173	-0.26	-0.28	-0.28	-0.21	-0.28	33%	8%	12
Yakima	14	3617	0.46	0.45	0.45	0.43	0.39	93%	79%	14
West Valley (Yakima)	15	444	-0.24	-0.24	-0.26	-0.23	-0.26	8%	8%	13
Sunnyside	16	2131	0.38	0.40	0.36	0.32	0.25	86%	64%	14
Ellensburg	17	390	-0.01	-0.00	-0.06	-0.00	-0.09	50%	14%	14
Cle Elum– Roslyn	18	961	0.19	0.21	0.22	0.14	0.16	57%	43%	14
Selah	19	754	-0.01	-0.01	-0.05	-0.00	-0.09	62%	15%	13
Goldendale	20	566	0.43	0.46	0.44	0.41	0.40	93%	79%	14
East Valley (Yakima)	21	804	0.02	0.02	0.03	-0.01	0.02	54%	23%	13
Toppenish	22	1644	0.45	0.44	0.45	0.43	0.39	86%	71%	14
Othello	23	1248	0.31	0.33	0.27	0.23	0.13	86%	64%	14
Prosser	24	603	0.26	0.30	0.22	0.21	0.12	83%	67%	12
Kennewick	25	2746	0.15	0.17	0.15	0.13	0.13	86%	36%	14
Columbia (Walla Walla)	26	267	0.09	0.12	0.07	0.09	0.04	83%	17%	12
Walla Walla	27	980	0.11	0.12	0.07	0.12	0.02	64%	29%	14
Clarkston	28	442	0.19	0.17	0.22	0.24	0.28	86%	43%	14
Pasco	29	3002	0.28	0.28	0.30	0.23	0.24	79%	57%	14
Richland	30	1127	-0.08	-0.08	-0.09	-0.05	-0.08	36%	7%	14
Tonasket	31	351	0.20	0.22	0.14	0.23	0.16	64%	43%	14
Omak	32	508	0.21	0.20	0.28	0.21	0.38	64%	29%	14
Grand Coulee Dam	33	558	0.31	0.31	0.31	0.30	0.30	82%	55%	11
Ephrata	34	897	0.28	0.28	0.31	0.24	0.27	79%	50%	14
Lake Chelan	35	602	0.10	0.10	0.14	0.11	0.19	38%	38%	13
Cascade	36	337	-0.13	-0.13	-0.19	-0.09	-0.21	23%	0%	13
Eastmont	37	808	0.02	0.05	-0.03	0.03	-0.06	50%	29%	14
Wenatchee	38	1237	0.16	0.18	0.12	0.16	0.09	57%	43%	14
Moses Lake	39	1385	0.19	0.15	0.17	0.23	0.19	64%	50%	14
Lynden	40	632	-0.08	-0.05	-0.13	-0.05	-0.15	50%	14%	14

Lowest
 Low
 Neutral
 Higher
 Highest

Index 1 = Original model using all covariates average together
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 Index 3 = Exploratory model uses MCH indicators from the locale model and no HYS data
 Index 4 = Original model of Index 1 averaging sub indices together
 Index 5 = Exploratory model of Index 2 averaging sub indices together

Table 3 (b): Locale Indices (Locales 42 – 82)

Largest School District	Locale	Low Income Births 2013–2015	Index 1	Index 2	Index 3	Index 4	Index 5	Percentage Risk Factors Above the State Mean	Percentage Risk Factors in Top Quintile	Total Risk Factors Measured
Mount Baker	41	747	0.05	0.05	0.07	-0.01	0.01	46%	15%	13
San Juan Island	42	179	-0.21	-0.16	-0.33	-0.16	-0.32	43%	21%	14
Anacortes	43	252	-0.16	-0.18	-0.20	-0.09	-0.14	36%	7%	14
Burlington Edison	44	490	0.11	0.08	0.11	0.12	0.12	64%	36%	14
Sultan	45	602	0.01	0.01	-0.03	0.02	-0.03	77%	38%	13
Mt Vernon	46	1251	0.16	0.14	0.16	0.16	0.13	64%	29%	14
Arlington	47	619	-0.04	-0.04	-0.07	-0.03	-0.08	62%	0%	13
South Whidbey	48	207	-0.16	-0.16	-0.18	-0.15	-0.16	46%	15%	13
Edmonds	49	2120	-0.04	-0.03	-0.04	-0.06	-0.09	29%	7%	14
Everett	50	2237	0.04	0.04	0.06	0.04	0.07	64%	0%	14
Ferndale	51	690	0.09	0.08	0.10	0.11	0.10	57%	29%	14
Bellingham	52	1380	-0.04	-0.02	0.01	-0.06	-0.01	29%	7%	14
Lake Stevens	53	512	-0.16	-0.17	-0.20	-0.12	-0.18	21%	0%	14
Marysville	54	1363	0.11	0.11	0.10	0.14	0.12	86%	14%	14
Monroe	55	521	-0.10	-0.10	-0.11	-0.10	-0.15	31%	8%	13
Mukilteo	56	2263	0.17	0.17	0.22	0.12	0.20	77%	23%	13
Oak Harbor	57	737	-0.06	-0.05	-0.00	-0.06	0.05	57%	0%	14
Sedro Woolley	58	563	0.10	0.09	0.05	0.16	0.07	79%	36%	14
Snohomish	59	427	-0.29	-0.29	-0.36	-0.25	-0.38	0%	0%	13
Stanwood	60	363	-0.21	-0.21	-0.20	-0.20	-0.21	31%	8%	13
Riverview	61	116	-0.43	-0.43	-0.47	-0.38	-0.44	0%	0%	13
Renton	62	3013	0.12	0.14	0.16	0.08	0.13	79%	21%	14
Peninsula	63	544	-0.21	-0.21	-0.27	-0.15	-0.25	38%	8%	13
University Place	64	717	-0.14	-0.16	-0.09	-0.15	-0.04	29%	0%	14
Puyallup	65	2321	-0.05	-0.06	-0.03	-0.04	-0.01	50%	0%	14
Sumner	66	684	-0.23	-0.23	-0.27	-0.22	-0.29	23%	0%	13
Eatonville	67	386	-0.14	-0.14	-0.15	-0.11	-0.11	62%	0%	13
Seattle	68	5483	-0.11	-0.08	-0.17	-0.13	-0.23	36%	14%	14
Tacoma	69	5033	0.31	0.27	0.32	0.34	0.35	92%	58%	12
Lake Washington	70	852	-0.43	-0.40	-0.46	-0.44	-0.48	7%	7%	14
Kent	71	3802	0.06	0.06	0.13	0.03	0.11	71%	29%	14
Federal Way	72	3313	0.13	0.15	0.19	0.10	0.19	64%	29%	14
Highline	73	3676	0.24	0.27	0.23	0.22	0.20	75%	42%	12
Bellevue	74	647	-0.21	-0.15	-0.19	-0.26	-0.23	21%	14%	14
Northshore	75	771	-0.34	-0.31	-0.38	-0.34	-0.44	7%	7%	14
Clover Park	76	3154	0.31	0.27	0.41	0.31	0.53	93%	57%	14
Bethel	77	2124	0.06	0.06	0.08	0.06	0.11	85%	15%	13
Issaquah	78	361	-0.46	-0.46	-0.50	-0.39	-0.48	0%	0%	13
Auburn	79	2481	0.18	0.18	0.20	0.18	0.20	79%	36%	14
Shoreline	80	580	-0.26	-0.21	-0.31	-0.28	-0.39	14%	0%	14

Lowest
 Low
 Neutral
 Higher
 Highest

Index 1 = Original model using all covariates average together
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 Index 4 = Original model of Index 1 averaging sub indices together
 Index 5 = Exploratory model of Index 2 averaging sub indices together

Table 3 (c): Locale Indices (Locales 83 – 118)

Largest School District	Locale	Low Income Births 2013–2015	Index 1	Index 2	Index 3	Index 4	Index 5	Percentage Risk Factors Above the State Mean	Percentage Risk Factors in Top Quintile	Total Risk Factors Measured
Franklin Pierce	81	1540	0.27	0.27	0.32	0.25	0.34	100%	58%	12
Tahoma	82	280	-0.46	-0.39	-0.47	-0.47	-0.49	25%	8%	12
Snoqualmie Valley	83	172	-0.42	-0.42	-0.51	-0.34	-0.53	0%	0%	13
Enumclaw	84	291	-0.13	-0.13	-0.25	-0.09	-0.32	31%	15%	13
White River	85	253	-0.25	-0.25	-0.37	-0.17	-0.37	31%	15%	13
Mercer Island	86	38	-0.74	-0.66	-0.87	-0.71	-0.93	0%	0%	14
Bainbridge Island	87	73	-0.48	-0.43	-0.56	-0.49	-0.64	21%	14%	14
North Thurston	88	1744	-0.03	-0.00	-0.01	-0.03	0.01	43%	0%	14
Olympia	89	779	-0.08	-0.06	-0.06	-0.09	-0.06	36%	0%	14
Tumwater	90	546	-0.07	-0.05	-0.07	-0.05	-0.05	50%	14%	14
Yelm	91	588	-0.05	-0.05	-0.05	-0.02	0.04	62%	8%	13
Centralia	92	726	0.38	0.36	0.38	0.39	0.38	93%	71%	14
Rochester	93	510	0.01	0.01	-0.01	0.01	-0.01	69%	15%	13
Shelton	94	672	0.07	0.07	0.05	0.04	-0.01	69%	15%	13
Onalaska	95	337	0.08	0.08	0.05	0.09	0.05	69%	38%	13
Chehalis	96	558	-0.01	-0.01	-0.02	0.01	-0.03	50%	8%	12
Ocosta	97	274	0.27	0.27	0.22	0.24	0.12	69%	62%	13
Elma	98	391	0.08	0.09	0.05	0.10	0.05	71%	29%	14
Aberdeen	99	656	0.31	0.32	0.32	0.32	0.30	86%	71%	14
Pioneer	100	495	0.07	0.07	0.09	0.03	0.09	73%	27%	11
Central Kitsap	101	1307	-0.12	-0.12	-0.10	-0.13	-0.06	23%	0%	13
Port Angeles	102	933	0.04	0.01	0.03	0.09	0.05	64%	14%	14
Port Townsend	103	273	-0.05	-0.05	-0.12	0.03	-0.07	57%	14%	14
South Kitsap	104	912	-0.09	-0.09	-0.06	-0.09	-0.04	54%	15%	13
Bremerton	105	1047	0.27	0.28	0.25	0.30	0.29	93%	64%	14
North Kitsap	106	511	-0.24	-0.24	-0.28	-0.19	-0.23	23%	0%	13
Quillayute Valley	107	380	0.21	0.21	0.20	0.13	0.13	55%	55%	11
Vancouver	108	3080	0.11	0.11	0.13	0.08	0.13	62%	23%	13
Evergreen (Clark)	109	2710	-0.00	-0.00	-0.01	-0.00	-0.03	46%	8%	13
Battle Ground	110	1102	-0.25	-0.25	-0.27	-0.22	-0.25	23%	0%	13
Longview	111	1048	0.23	0.21	0.30	0.24	0.35	64%	64%	14
Kelso	112	632	0.16	0.14	0.17	0.19	0.23	71%	50%	14
Ocean Beach	113	211	0.01	0.02	0.07	0.01	0.10	64%	14%	14
Woodland	114	470	-0.08	-0.09	-0.07	-0.05	-0.02	36%	7%	14
Ridgefield	115	241	-0.20	-0.20	-0.28	-0.15	-0.33	15%	0%	13
Camas	116	321	-0.42	-0.45	-0.47	-0.37	-0.46	0%	0%	14
Washougal	117	270	-0.14	-0.18	-0.14	-0.08	-0.09	33%	8%	12
White Salmom	118	353	0.06	0.08	0.07	0.08	0.09	50%	33%	12

Lowest
 Low
 Neutral

Higher
 Highest

Index 1 = Original model using all covariates average together
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 Index 5 = Exploratory model of Index 2 averaging sub indices together

Table 4: Race and Ethnicity Indices

Race	MCH Index	Reduced MCH Index (No Death or Teen Births)	Education Index	Drug and Alcohol Index	SES Index	Low income Births 2013 – 2015
Hispanic Only	0.20	0.09	0.39	0.18	0.78	37718
NH White Only	-0.15	-0.13	-0.12	-0.11	-0.31	61617
NH Black Only	0.36	0.40	0.30	0.37	0.43	8227
NH Amer Ind Only	0.59	0.53	0.55	0.40	0.31	2986
NH Asian Only	-0.38	0.05	-0.26	-0.71	0.21	6183
NH NHOPI Only	0.42	0.51	0.51	0.25	0.51	2545
NH Multiple Race	0.26	0.15	-0.07	0.11	0.01	5718

Race	Index 1	Index 2	Index 3	Index 4	Total Risk Factors Above the State Mean	Total Risk Factors in Top Quintile
Hispanic Only	0.38	0.33	0.39	0.42	13	3
NH White Only	-0.17	-0.14	-0.17	-0.19	0	0
NH Black Only	0.37	0.33	0.36	0.38	12	6
NH Amer Ind Only	0.40	0.35	0.46	0.47	13	12
NH Asian Only	-0.10	-0.24	-0.28	0.00	3	1
NH NHOPI Only	0.47	0.45	0.42	0.51	14	8
NH Multiple Race	0.06	0.12	0.08	0.03	10	0

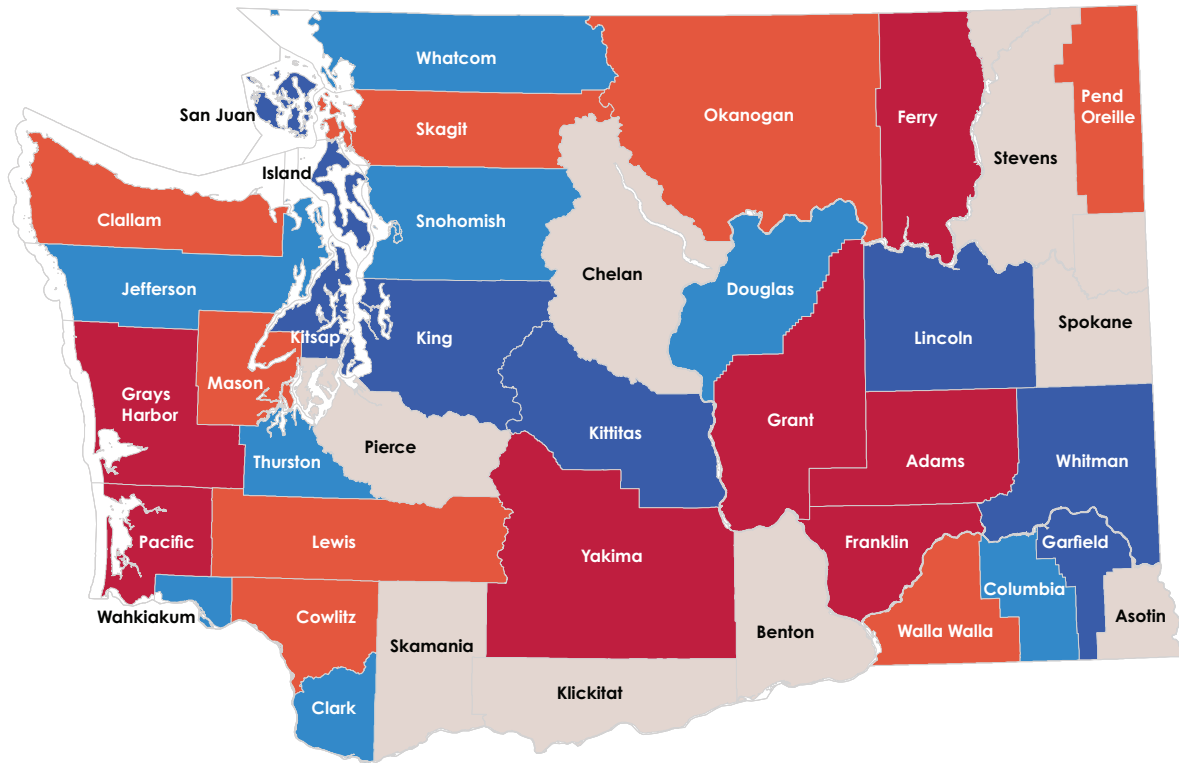
Index 1 = Average of all indicators

Index 2 = Average of each sub-domain separating then health, SES, education and community average together

Index 3 = SES, MCH, drug and alcohol use and education variables only

Index 4 = SES, reduced MCH indicators and Education indicators

Map 1: County Index 1

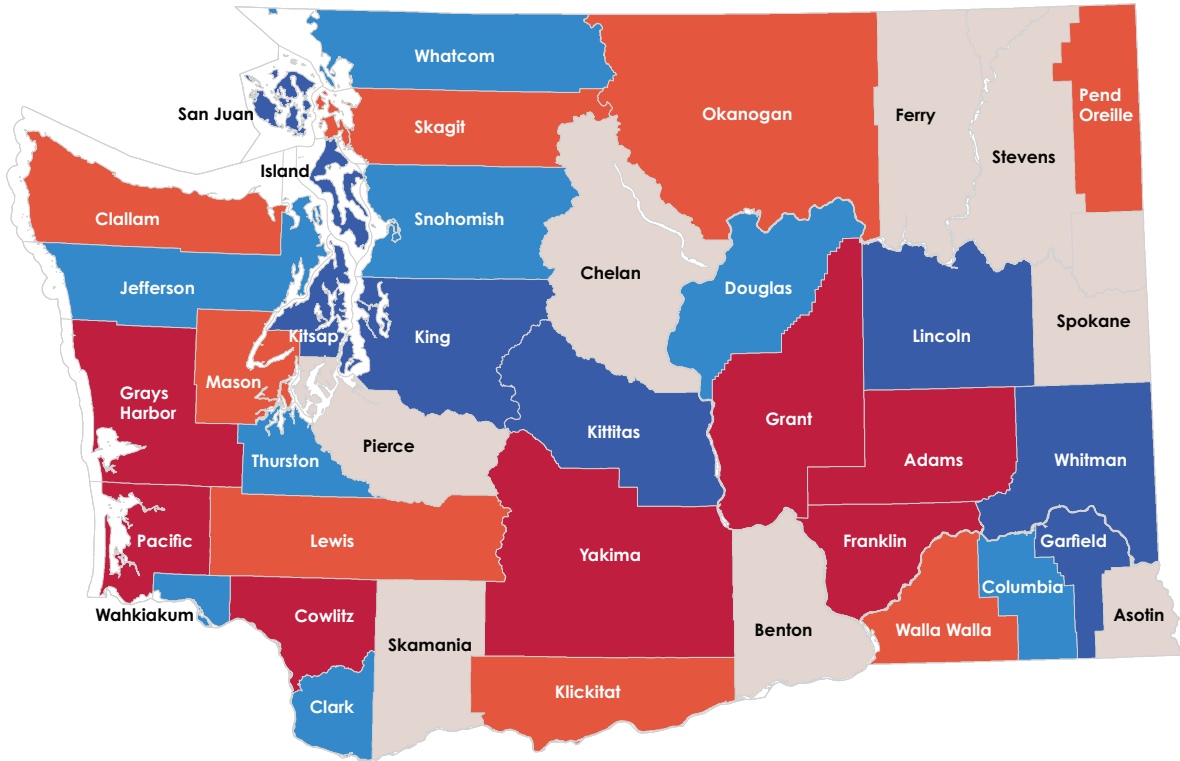


Legend

Lowest Low Neutral Higher Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WaKIDS, child abuse, IPV, 10th grade drug use, 10th grade binge drinking

Map 2: County Index 2

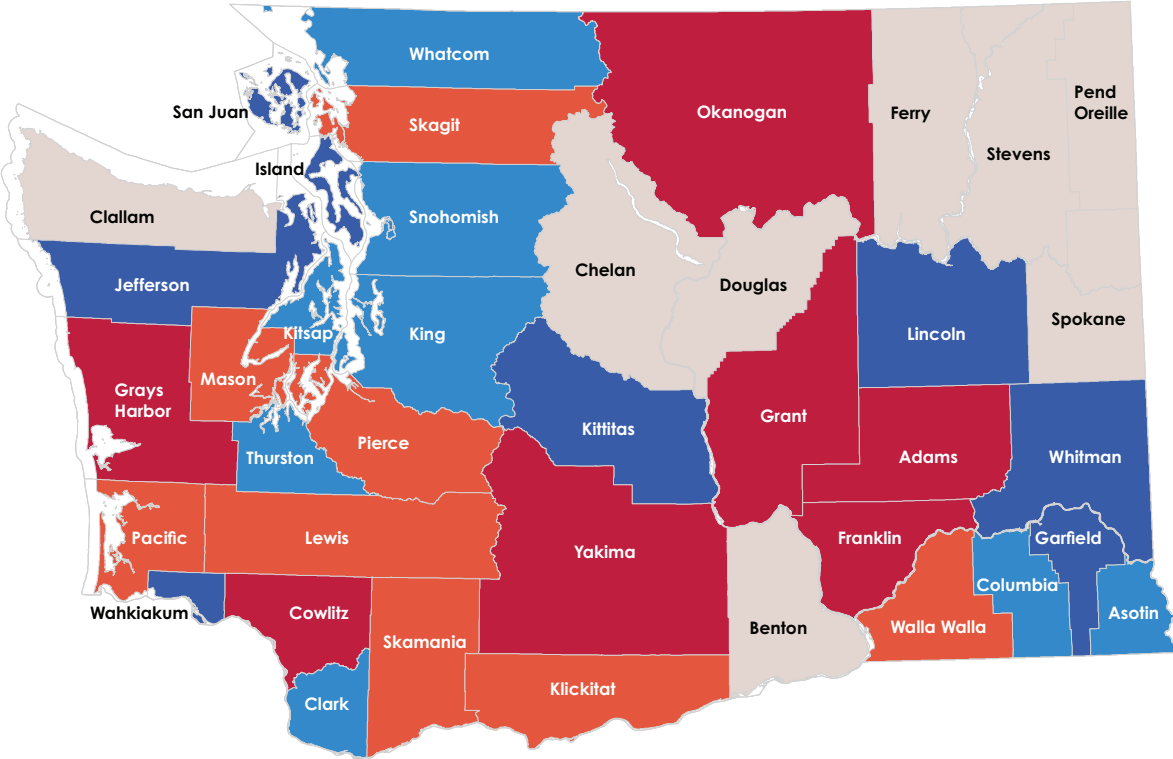


Legend

Lowest
 Low
 Neutral
 Higher
 Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WaKIDS, child abuse, IPV, 10th grade drug use, 10th grade binge drinking

Map 3: County Index 3

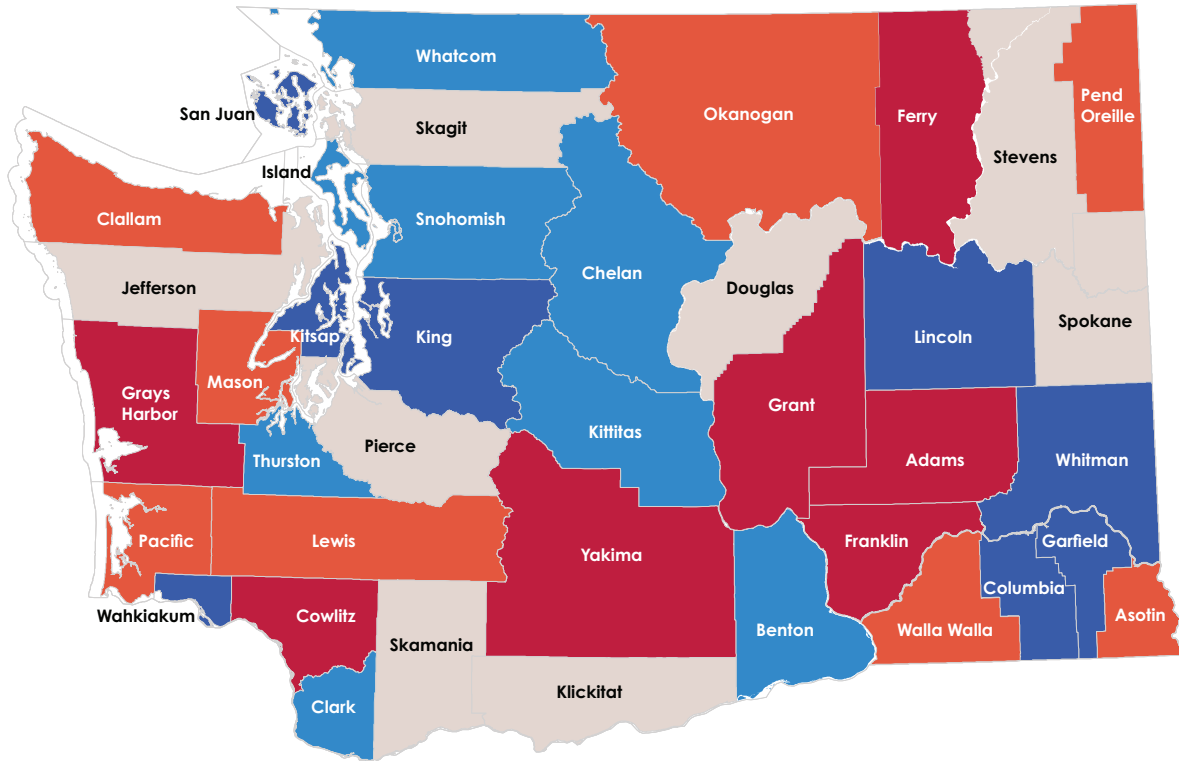


Legend

- Lowest
- Low
- Neutral
- Higher
- Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WA KIDS, child abuse, IPV, and school mobility

Map 4: County Index 4

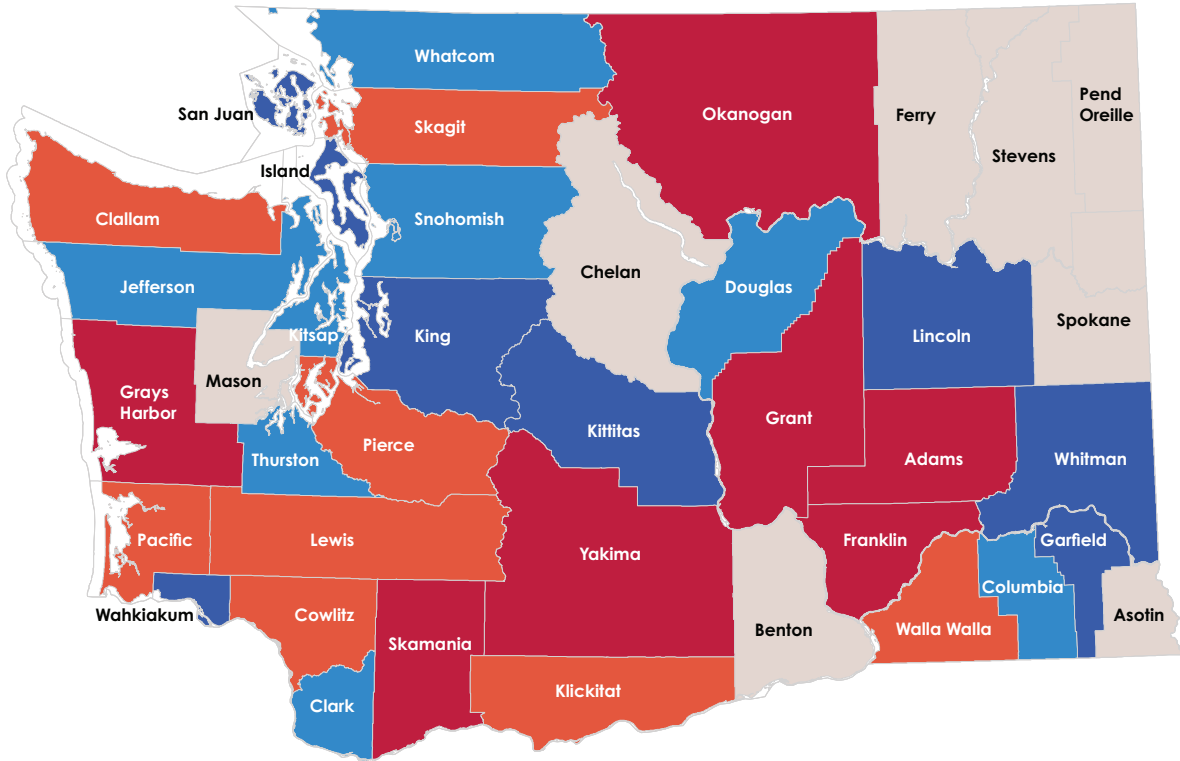


Legend

Lowest
 Low
 Neutral
 Higher
 Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WA KIDS, child abuse, IPV, 10th grade drug use, 10th grade binge drinking

Map 5: County Index 5

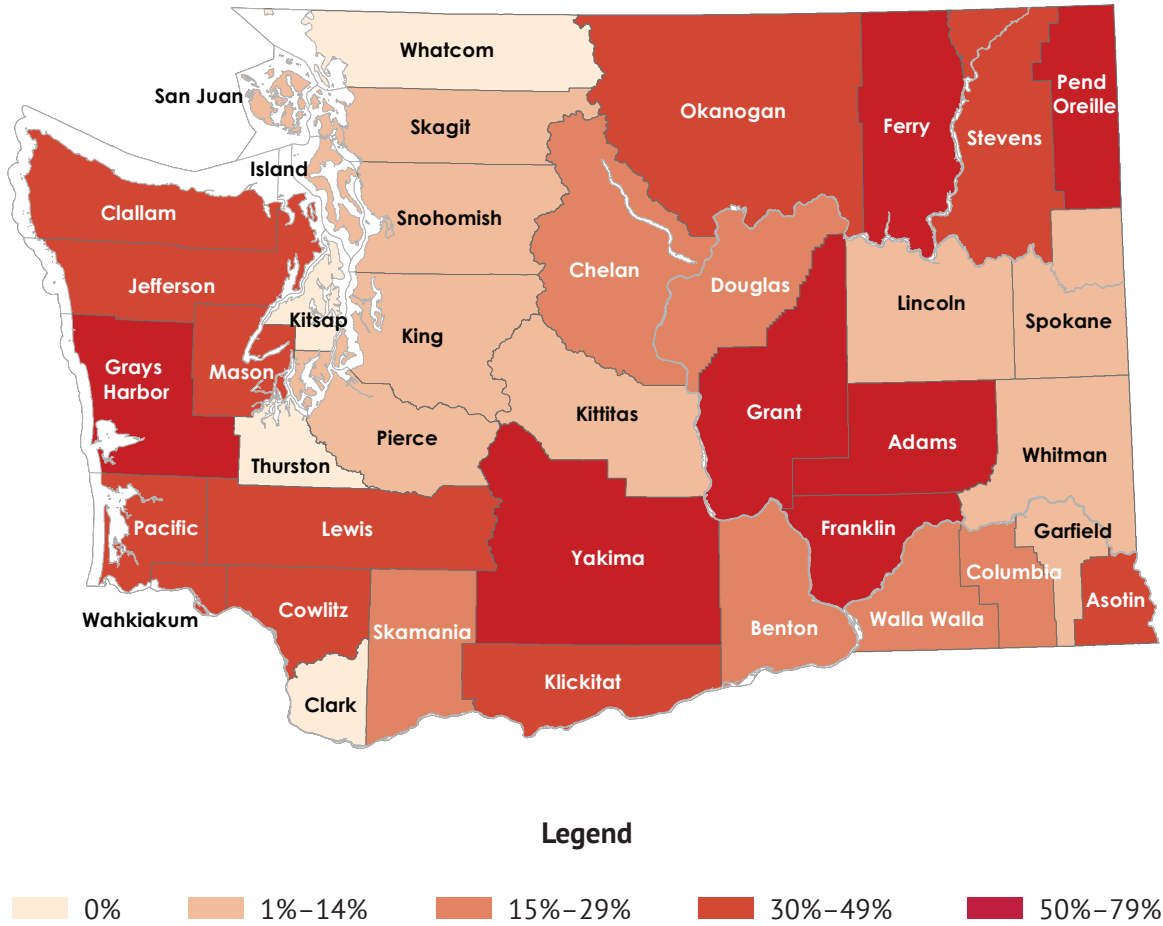


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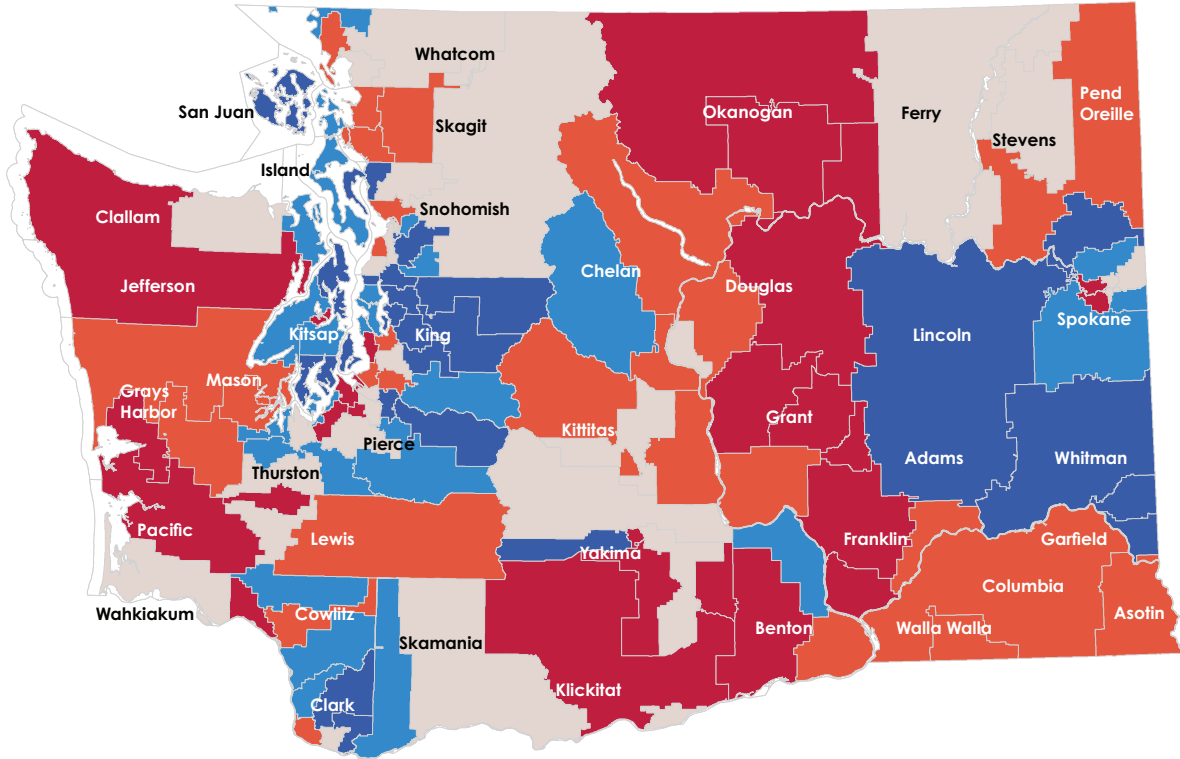
- Lowest
- Low
- Neutral
- Higher
- Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WA KIDS, child abuse, IPV, and school mobility

Map 6: Proportion of Risk Factors in the Top Quintile



Map 7: School Index 1

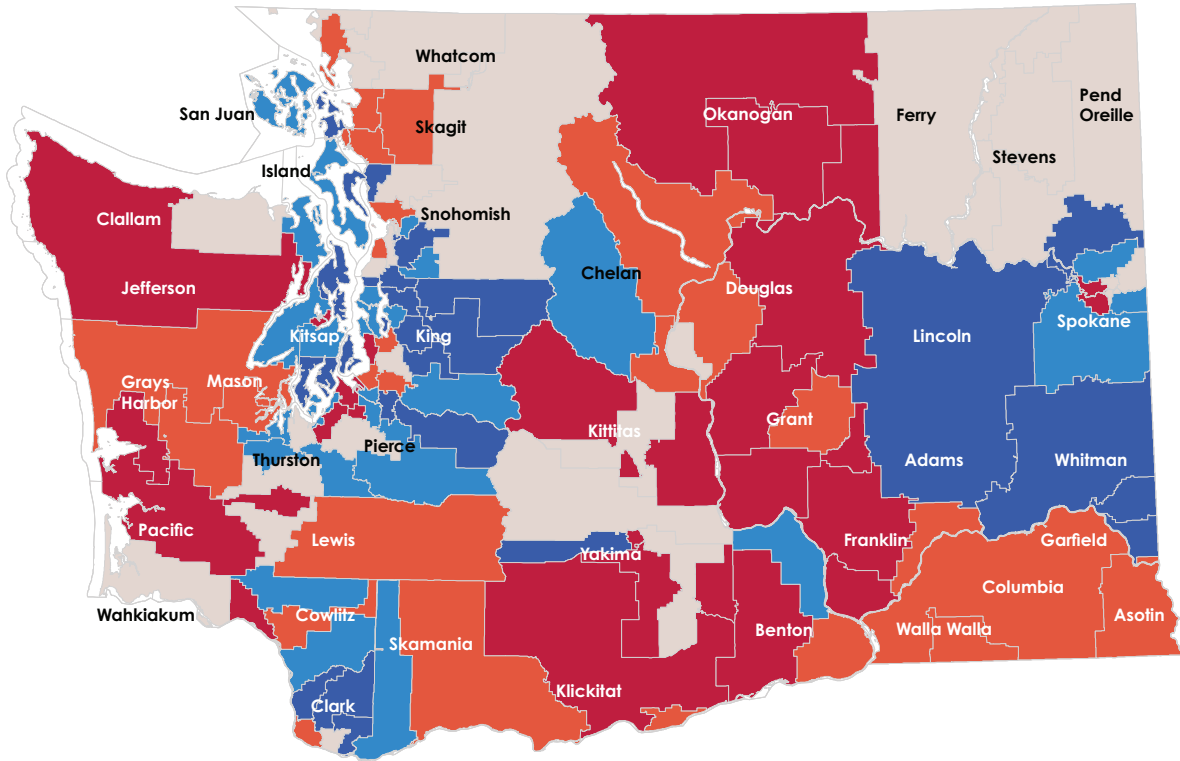


Legend



Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WA KIDS, child abuse, IPV, 10th grade drug use, 10th grade binge drinking

Map 8: School Index 2

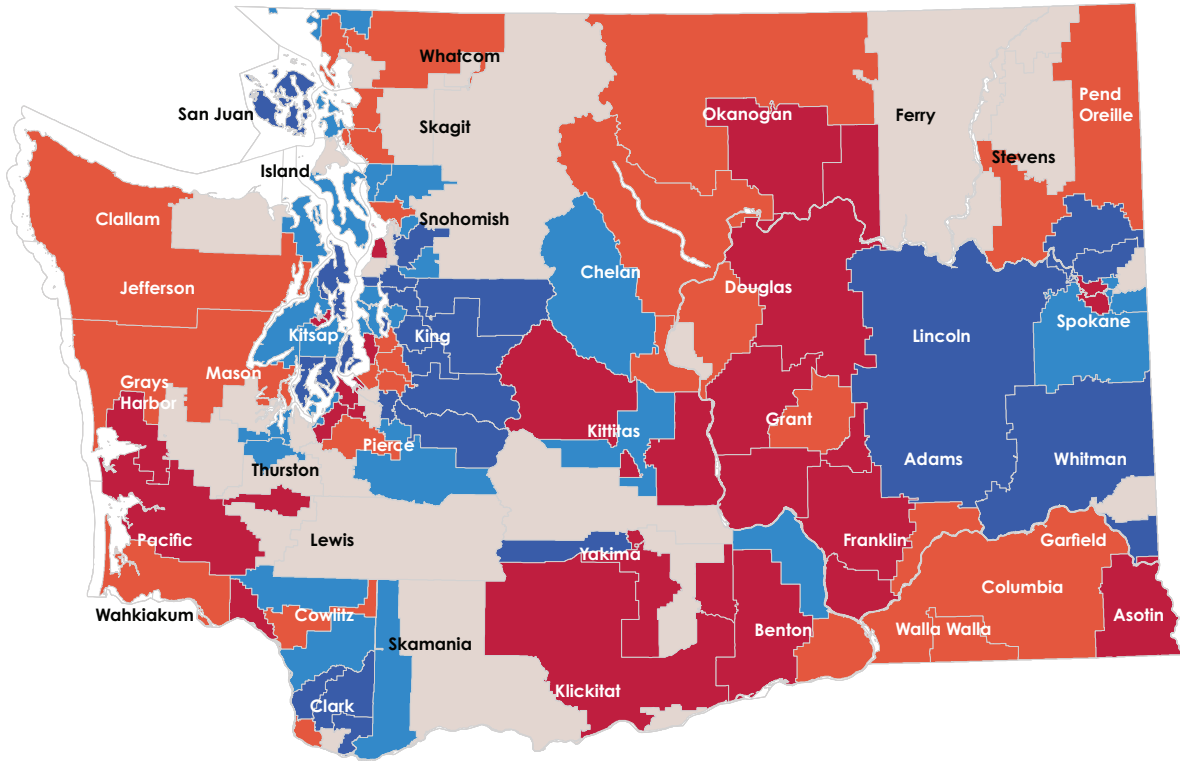


Legend

Lowest
 Low
 Neutral
 Higher
 Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WA KIDS, child abuse, 10th grade drug use, 10th grade binge drinking

Map 9: School Index 3

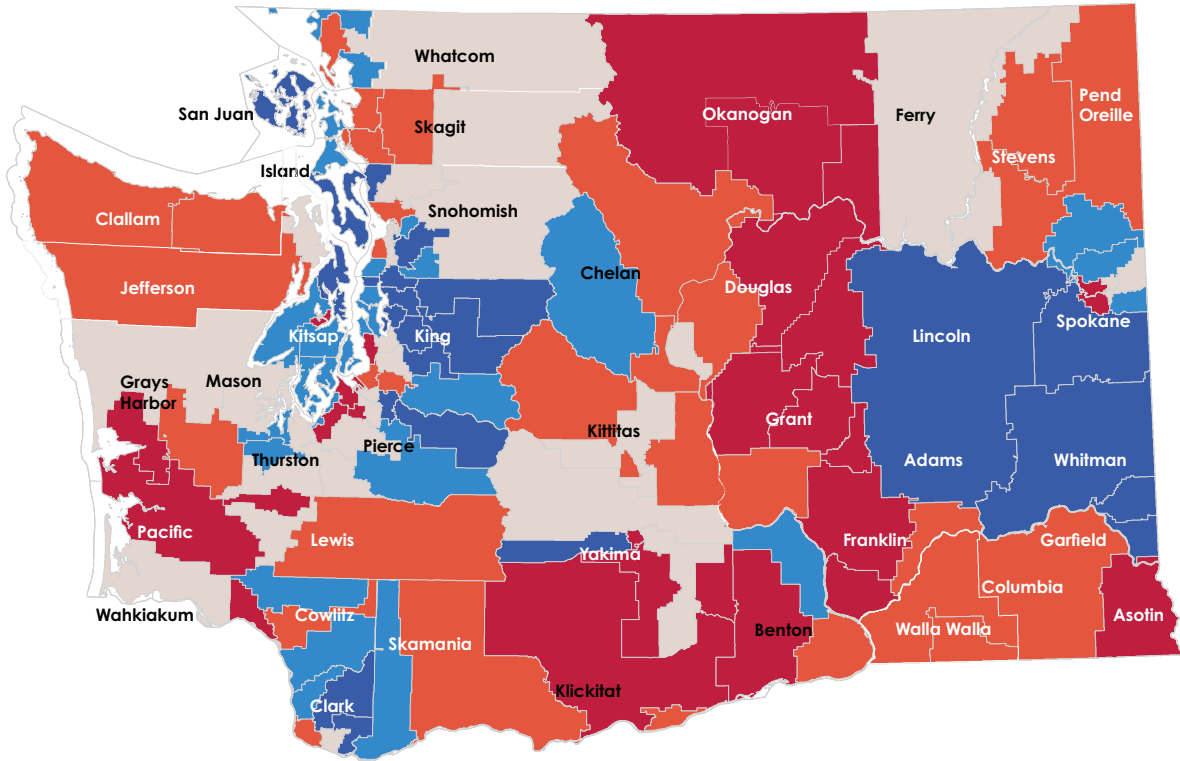


Legend

Lowest Low Neutral Higher Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WaKIDS, child abuse, IPV, and school mobility

Map 10: School Index 4

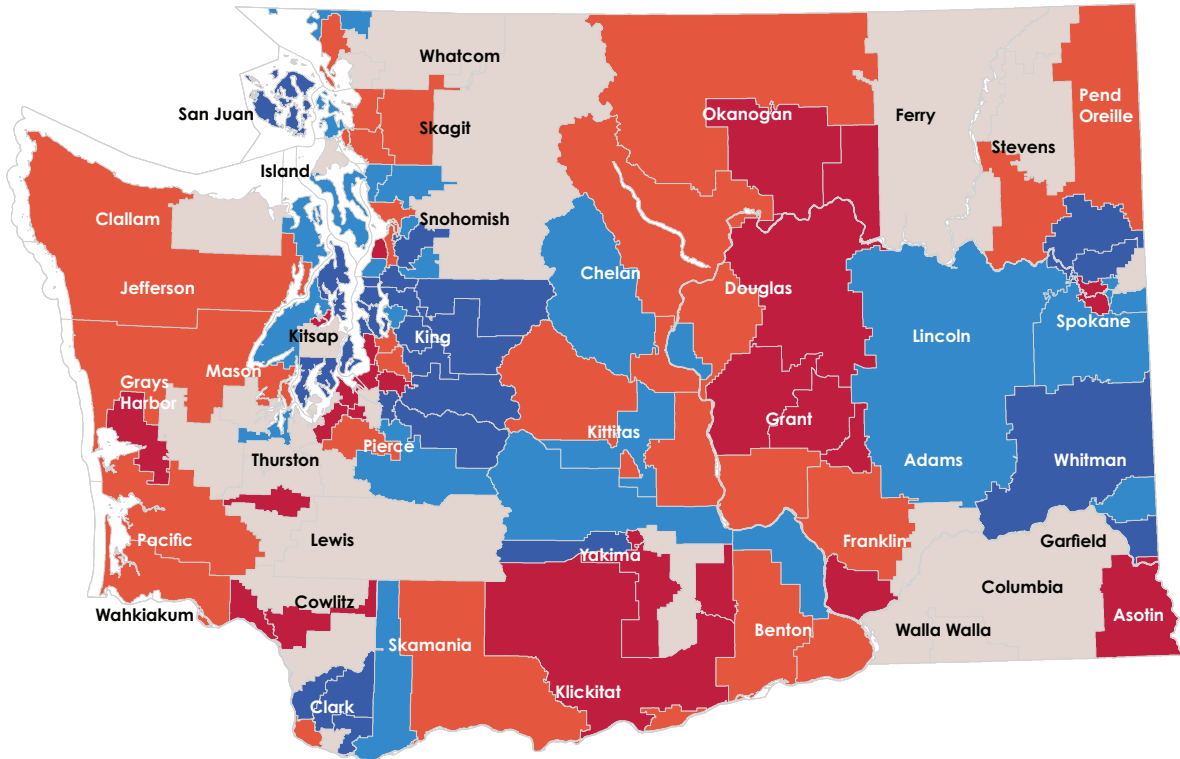


Legend

Lowest Low Neutral Higher Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, teen births, infant deaths, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WaKIDS, child abuse, IPV, 10th grade drug use, 10th grade binge drinking

Map 11: School Index 5

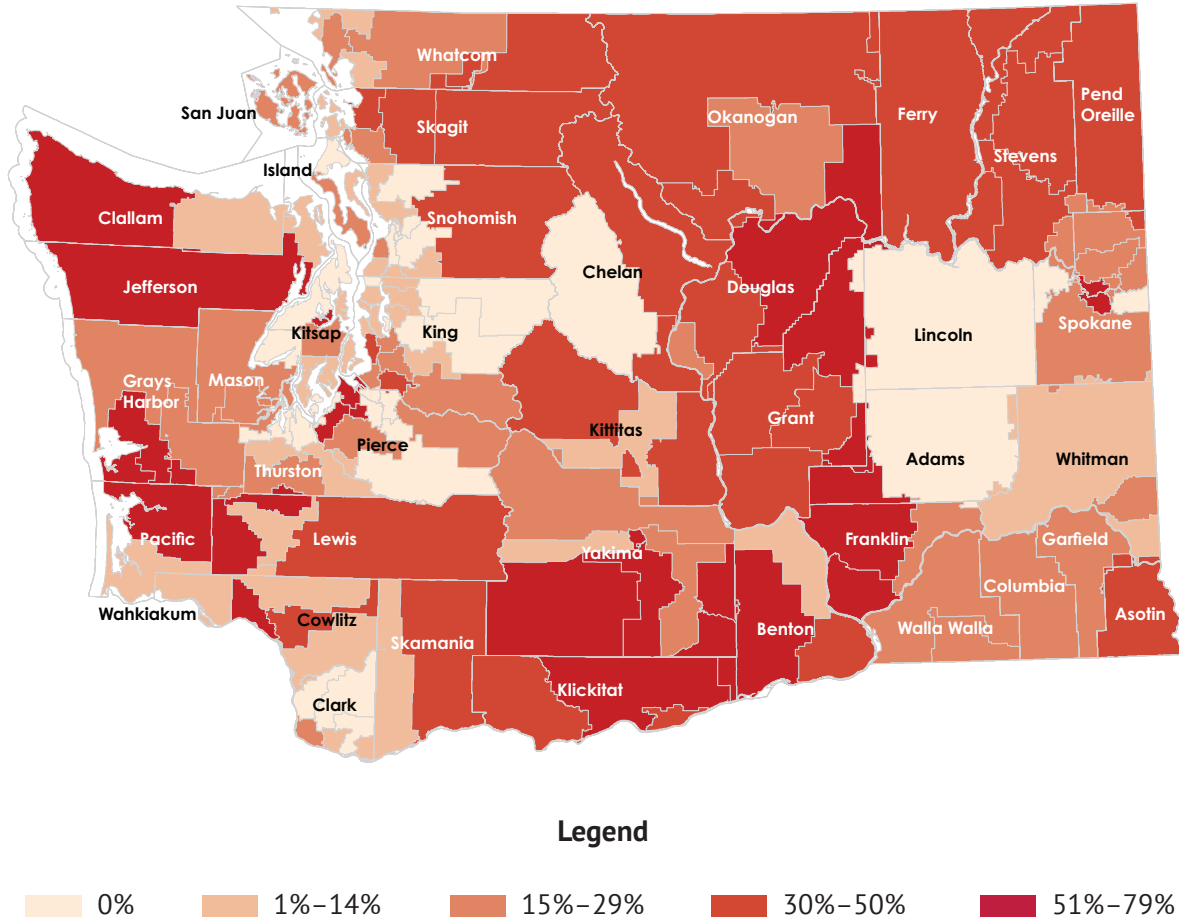


Legend

Lowest Low Neutral Higher Highest

Risk Factors used include LBW, preterm birth, late/no prenatal care, poverty, unemployment, female headed households with children under age 6, speak English less than very well, SBA ELA, SBA Math, WaKIDS, child abuse, IPV, and school mobility

Map 12: Proportion of Risk Factors in the Top Quintile



Supplemental Table 1: County Prevalences

County Name	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	IPV Rate Per 1000	Child Abuse Per 1000 (Age 0-17)	Female Headed Households With Children Under 6	Unemployment	Speak English "Less Than Very Well"
Washington State	46%	41%	53%	6.14	33.38	5.8%	7.9	7.7
Adams	66%	55%	67%	9.35	17.38	7.1%	9.6	27.1
Asofin	47%	50%	67%	9.18	68.93	6.2%	9.6	0.6
Benton	49%	44%	56%	5.48	28.66	6.9%	6.9	8.0
Chelan	59%	54%	60%	6.16	25.48	4.5%	7.5	10.0
Clallam	49%	43%	49%	9.63	52.18	9.6%	9.9	2.0
Clark	44%	42%	54%	6.49	26.32	4.7%	8.6	5.9
Columbia	33%	29%	35%	2.81	44.76	4.2%	10.4	1.6
Cowlitz	56%	49%	64%	8.76	54.55	7.7%	10.7	2.8
Douglas	47%	51%	59%	4.70	27.25	4.4%	6.5	13.1
Ferry	62%	63%	48%	5.54	51.22	7.0%	12.2	0.6
Franklin	71%	62%	59%	6.87	22.29	8.9%	7.2	23.5
Garfield	28%	48%	19%	7.65	68.06	6.6%	7.4	0.8
Grant	67%	61%	62%	9.68	36.12	5.3%	10.1	18.2
Grays Harbor	58%	53%	43%	8.09	53.63	8.2%	14.3	3.9
Island	48%	43%	49%	3.77	38.44	5.6%	9.0	2.4
Jefferson	54%	48%	52%	5.75	48.04	3.5%	9.5	1.1
King	37%	33%	39%	4.24	24.67	4.7%	6.3	10.5
Kitsap	42%	37%	49%	5.33	31.53	5.6%	8.0	2.3
Kittitas	42%	44%	54%	5.22	35.72	5.0%	7.8	3.2
Klickitat	68%	61%	66%	5.62	50.27	7.0%	7.0	3.4
Lewis	52%	42%	54%	7.68	48.50	7.2%	12.1	4.2
Lincoln	52%	37%	46%	5.62	37.65	2.9%	4.8	0.4
Mason	58%	47%	52%	5.26	49.90	5.8%	12.9	3.8
Okanogan	57%	54%	51%	6.05	42.79	8.6%	8.9	7.7
Pacific	58%	61%	50%	6.44	57.97	5.9%	8.9	4.6
Pend Oreille	51%	38%	46%	10.57	63.15	5.9%	10.3	0.6
Pierce	50%	44%	49%	9.03	37.19	6.7%	9.2	5.7
San Juan	31%	24%	37%	2.20	36.59	6.6%	5.9	2.0
Skagit	53%	47%	56%	8.43	41.44	6.9%	8.2	6.5
Skamania	77%	70%		6.23	58.07	6.3%	8.3	2.0
Snohomish	44%	41%	51%	5.35	31.90	5.4%	7.5	7.9
Spokane	46%	41%	57%	8.07	49.42	6.3%	8.4	3.1
Stevens	58%	56%	64%	8.16	47.10	6.2%	9.4	0.8
Thurston	45%	40%	46%	4.80	29.27	5.4%	8.5	4.7
Wahkiakum	49%	40%	23%	4.90	45.51	3.3%	10.6	0.5
Walla Walla	55%	52%	57%	6.42	37.27	5.7%	6.4	8.5
Whatcom	50%	44%	46%	5.06	44.61	5.8%	8.2	4.8
Whitman	30%	26%	29%	4.62	29.82	7.6%	8.8	4.5
Yakima	66%	57%	67%	9.11	36.66	8.2%	9.0	16.6

■ Lowest
■ Low
■ Neutral
■ Higher
■ Highest
■ Missing one or more indicator(s)

Supplemental Table 1: County Prevalences (continued)

County Name	Families Living in Poverty	Infants Born With Low Birth Weight Per 100 Live Births	Infants Born Preterm Per 100 Live Births	Mothers With Late or No Prenatal Care Per 100 Live Births	Births to Teen Mothers (15– 19) Per 100 Live Births	Infants Deaths Per 1000 Live Births	10th Grade Drug Use (Including Marijuana)	10th Grade Binge Drinking
Washington State	8.9	6.43	9.55	6.38	0.05	4.60	18.0	10.7
Adams	17.6	7.24	13.63	6.70	0.12	2.65		
Asotin	10.0	6.10	8.61	5.44	0.09	6.93	23.6	17.5
Benton	10.6	6.71	11.13	7.51	0.07	4.97	17.7	10.0
Chelan	10.0	5.52	9.67	6.14	0.07	3.94	16.4	11.9
Clallam	8.8	6.23	12.04	7.53	0.07	9.38	20.4	13.3
Clark	7.9	6.11	9.99	5.24	0.05	3.52	16.4	10.1
Columbia	10.8	12.84	12.84	5.66	0.05	9.17	15.0	5.3
Cowlitz	12.5	6.63	10.01	6.39	0.08	5.87	19.7	13.1
Douglas	9.8	5.61	9.57	5.24	0.07	2.55	22.9	17.2
Ferry	14.0	6.34	10.40	5.76	0.09	9.76	57.1	33.3
Franklin	15.4	5.46	10.94	8.96	0.08	4.06		
Garfield	4.4	2.70	8.11	4.05	0.03	0.00	0.0	11.4
Grant	12.7	5.80	8.89	6.62	0.09	3.82	20.6	14.1
Grays Harbor	11.7	7.80	10.98	8.17	0.07	4.77	25.1	14.8
Island	6.6	5.14	7.46	7.56	0.04	5.17	18.6	11.0
Jefferson	6.0	6.96	8.73	8.15	0.04	8.70	28.8	16.9
King	7.0	6.65	8.98	5.77	0.02	4.07	14.1	8.9
Kitsap	7.0	6.57	9.13	6.92	0.04	5.35	15.2	8.2
Kittitas	12.0	6.22	8.89	2.54	0.03	4.15	16.0	14.9
Klickitat	10.9	4.71	9.71	6.17	0.06	0.00	0.0	0.0
Lewis	10.5	6.93	9.33	5.86	0.08	8.74	19.0	11.8
Lincoln	9.7	5.15	7.61	2.81	0.07	6.87	8.2	5.7
Mason	10.8	5.79	9.24	8.87	0.08	5.46	22.0	12.5
Okanogan	15.3	6.86	10.91	9.91	0.09	2.00	19.1	13.4
Pacific	10.2	7.07	10.83	7.82	0.07	8.83	17.9	13.2
Pend Oreille	17.5	6.70	11.73	5.29	0.08	16.76	21.4	16.3
Pierce	8.9	6.65	9.70	7.73	0.05	5.54	18.5	10.3
San Juan	7.5	3.19	2.89	7.64	0.04	3.55	11.4	9.7
Skagit	10.9	5.92	9.83	6.77	0.06	4.64	18.8	12.1
Skamania	9.7	6.01	9.54	6.34	0.07	3.53	8.0	15.8
Snohomish	6.8	6.10	9.22	6.87	0.03	3.55	17.3	9.4
Spokane	10.3	7.09	10.28	4.64	0.05	5.39	18.6	11.3
Stevens	13.0	5.75	9.07	5.63	0.08	4.48	22.4	14.0
Thurston	8.5	6.02	9.55	6.85	0.04	5.38	19.7	9.8
Wahkiakum	10.8	7.41	6.17	9.09	0.10	12.35	14.3	9.7
Walla Walla	12.3	6.34	10.41	6.30	0.08	5.90	31.2	14.8
Whatcom	10.1	5.48	8.03	6.17	0.04	3.91	17.1	9.1
Whitman	12.1	5.61	7.29	3.66	0.02	6.73	11.0	9.9
Yakima	16.5	6.62	11.01	6.07	0.10	4.88	21.4	12.0

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 2: County Relative Risks

County	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Child Abuse Per 1000 (Age 0-17)	IPV Rate Per 1000	Unemployment	Female Headed Households With Children Under 6	Speak English "Less Than Very Well"
Adams	1.57	1.30	1.42	0.52	1.52	1.22	1.23	3.52
Asotin	1.02	1.18	1.45	2.06	1.50	1.22	1.07	0.08
Benton	1.07	1.06	1.07	0.86	0.89	0.87	1.18	1.04
Chelan	1.31	1.27	1.17	0.76	1.00	0.95	0.78	1.30
Clallam	1.06	1.03	0.93	1.56	1.57	1.25	1.66	0.26
Clark	0.97	1.01	1.03	0.79	1.06	1.09	0.82	0.77
Columbia	0.81	0.82	0.73	1.34	0.46	1.32	0.73	0.21
Cowlitz	1.24	1.16	1.30	1.63	1.43	1.35	1.32	0.36
Douglas	1.02	1.20	1.16	0.82	0.77	0.82	0.75	1.70
Ferry	1.42	1.58	0.91	1.53	0.90	1.54	1.20	0.08
Franklin	1.89	1.55	1.14	0.67	1.12	0.91	1.54	3.05
Garfield	0.75	1.13	0.59	2.04	1.25	0.94	1.14	0.10
Grant	1.65	1.50	1.26	1.08	1.58	1.28	0.91	2.36
Grays Harbor	1.29	1.26	0.84	1.61	1.32	1.81	1.42	0.51
Island	1.04	1.03	0.92	1.15	0.61	1.14	0.96	0.31
Jefferson	1.18	1.13	0.99	1.44	0.94	1.20	0.61	0.14
King	0.86	0.87	0.78	0.74	0.69	0.80	0.80	1.36
Kitsap	0.93	0.94	0.94	0.94	0.87	1.01	0.97	0.30
Kittitas	0.94	1.04	1.02	1.07	0.85	0.99	0.86	0.42
Klickitat	1.72	1.52	1.39	1.51	0.92	0.89	1.20	0.44
Lewis	1.14	1.02	1.03	1.45	1.25	1.53	1.25	0.55
Lincoln	1.12	0.94	0.87	1.13	0.92	0.61	0.49	0.05
Mason	1.30	1.11	1.00	1.49	0.86	1.63	1.00	0.49
Okanogan	1.27	1.29	0.97	1.28	0.99	1.13	1.48	1.00
Pacific	1.28	1.53	0.94	1.74	1.05	1.13	1.01	0.60
Pend Oreille	1.10	0.95	0.88	1.89	1.72	1.30	1.02	0.08
Pierce	1.08	1.06	0.93	1.11	1.47	1.16	1.16	0.74
San Juan	0.79	0.77	0.75	1.10	0.36	0.75	1.13	0.26
Skagit	1.16	1.10	1.07	1.24	1.37	1.04	1.18	0.84
Skamania	2.36	1.97		1.74	1.02	1.05	1.09	0.26
Snohomish	0.97	1.00	0.96	0.96	0.87	0.95	0.93	1.03
Spokane	1.00	0.99	1.10	1.48	1.31	1.06	1.09	0.40
Stevens	1.28	1.34	1.31	1.41	1.33	1.19	1.07	0.10
Thurston	0.99	0.98	0.87	0.88	0.78	1.08	0.94	0.61
Wahkiakum	1.06	0.98	0.61	1.36	0.80	1.34	0.58	0.06
Walla Walla	1.22	1.22	1.09	1.12	1.05	0.81	0.98	1.10
Whatcom	1.08	1.06	0.88	1.34	0.82	1.04	1.00	0.62
Whitman	0.77	0.79	0.67	0.89	0.75	1.11	1.32	0.58
Yakima	1.58	1.38	1.46	1.10	1.48	1.14	1.41	2.16

■ Lowest
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 ■ Missing one or more indicator(s)

Supplemental Table 2: County Relative Risks (continued)

County	Families Living in Poverty	Infants Deaths	Births to Teen Mothers (15–19)	Mothers With Late or No Prenatal Care	Infants Born Preterm	Infants Born With Low Birth Weight	10th Grade Drug Use (Including Marijuana)	10th Grade Binge Drinking
Adams	1.98	0.58	2.49	1.05	1.43	1.13	1.31	1.63
Asotin	1.12	1.51	2.00	0.85	0.90	0.95	0.98	0.93
Benton	1.19	1.08	1.47	1.18	1.17	1.04	0.91	1.11
Chelan	1.12	0.86	1.41	0.96	1.01	0.86	1.13	1.24
Clallam	0.99	2.04	1.45	1.18	1.26	0.97	0.91	0.94
Clark	0.89	0.77	1.09	0.82	1.05	0.95	0.83	0.49
Columbia	1.21	1.99	0.99	0.89	1.34	2.00	1.09	1.22
Cowlitz	1.40	1.28	1.77	1.00	1.05	1.03	1.27	1.61
Douglas	1.10	0.55	1.56	0.82	1.00	0.87	3.17	3.11
Ferry	1.57	2.12	1.89	0.90	1.09	0.99		
Franklin	1.73	0.88	1.74	1.40	1.15	0.85	0.00	1.06
Garfield	0.49	0.00	0.58	0.63	0.85	0.42	1.14	1.32
Grant	1.43	0.83	1.98	1.04	0.93	0.90	1.39	1.38
Grays Harbor	1.31	1.04	1.60	1.28	1.15	1.21	1.03	1.03
Island	0.74	1.12	0.77	1.18	0.78	0.80	1.60	1.58
Jefferson	0.67	1.89	0.79	1.28	0.91	1.08	0.78	0.83
King	0.79	0.88	0.52	0.90	0.94	1.03	0.84	0.77
Kitsap	0.79	1.16	0.84	1.08	0.96	1.02	0.89	1.39
Kittitas	1.35	0.90	0.59	0.40	0.93	0.97	0.00	0.00
Klickitat	1.22	0.00	1.34	0.97	1.02	0.73	1.05	1.10
Lewis	1.18	1.90	1.75	0.92	0.98	1.08	0.45	0.53
Lincoln	1.09	1.49	1.41	0.44	0.80	0.80	1.22	1.17
Mason	1.21	1.19	1.79	1.39	0.97	0.90	1.06	1.25
Okanogan	1.72	0.43	2.04	1.55	1.14	1.07	0.99	1.23
Pacific	1.15	1.92	1.56	1.23	1.13	1.10	1.19	1.52
Pend Oreille	1.97	3.64	1.68	0.83	1.23	1.04	1.03	0.96
Pierce	1.00	1.20	1.02	1.21	1.02	1.03	0.63	0.91
San Juan	0.84	0.77	0.84	1.20	0.30	0.50	1.04	1.13
Skagit	1.22	1.01	1.26	1.06	1.03	0.92	0.44	1.48
Skamania	1.09	0.77	1.45	0.99	1.00	0.93	0.96	0.88
Snohomish	0.76	0.77	0.72	1.08	0.97	0.95	1.03	1.06
Spokane	1.16	1.17	1.09	0.73	1.08	1.10	1.24	1.31
Stevens	1.46	0.97	1.69	0.88	0.95	0.89	1.09	0.92
Thurston	0.96	1.17	0.95	1.07	1.00	0.94	0.79	0.91
Wahkiakum	1.21	2.68	2.13	1.42	0.65	1.15	1.73	1.38
Walla Walla	1.38	1.28	1.75	0.99	1.09	0.99	0.95	0.85
Whatcom	1.13	0.85	0.88	0.97	0.84	0.85	0.61	0.92
Whitman	1.36	1.46	0.44	0.57	0.76	0.87	1.19	1.12
Yakima	1.85	1.06	2.20	0.95	1.15	1.03		

■ Lowest
 ■ Low
 ■ Neutral
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 ■ Missing one or more indicator(s)

Supplemental Table 3: County Log Ratios

County Name	County Number	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Child Abuse per 1000 (age 0– 17)	IPV Rate Per 1000	Unemployment	Female Headed Households With Children Under 6	Speak English "Less than Very Well"
Adams	1	0.45	0.26	0.35	0.09	- 1.03	- 0.29	0.12	1.26
Asotin	2	0.02	0.16	0.37	- 0.11	- 0.29	0.11	0.28	- 2.55
Benton	3	0.07	0.06	0.07	0.29	- 0.78	0.27	- 0.31	0.04
Chelan	4	0.27	0.24	0.16	- 0.30	- 0.37	- 0.23	- 0.22	0.26
Clallam	5	0.06	0.03	- 0.08	0.12	- 0.09	- 0.50	- 0.71	- 1.35
Clark	6	- 0.03	0.01	0.03	- 0.06	- 0.14	0.01	- 0.03	- 0.27
Columbia	7	- 0.21	- 0.19	- 0.32	0.64	0.54	0.27	0.02	- 1.57
Cowlitz	8	0.22	0.15	0.27	- 0.13	- 0.25	0.07	- 0.06	- 1.01
Douglas	9	0.02	0.18	0.14	0.31	- 0.23	0.29	- 0.55	0.53
Ferry	10	0.35	0.46	- 0.09	0.39	0.27	0.06	0.08	- 2.55
Franklin	11	0.64	0.44	0.13	- 0.05	- 0.14	- 0.05	- 0.07	1.12
Garfield	12	- 0.28	0.12	- 0.54	- 0.24	0.06	0.08	- 0.20	- 2.26
Grant	13	0.50	0.41	0.23	0.37	0.22	0.43	0.22	0.86
Grays Harbor	14	0.25	0.23	- 0.18	0.45	0.45	0.23	0.51	- 0.68
Island	15	0.04	0.03	- 0.08	0.14	- 0.49	0.13	- 0.04	- 1.17
Jefferson	16	0.16	0.13	- 0.01	0.07	- 0.16	- 0.01	- 0.15	- 1.95
King	17	- 0.15	- 0.13	- 0.25	0.29	- 0.19	0.04	0.00	0.31
Kitsap	18	- 0.07	- 0.06	- 0.07	0.11	0.39	0.15	0.15	- 1.21
Kittitas	19	- 0.07	0.04	0.02	- 0.15	- 0.11	- 0.14	0.17	- 0.88
Klickitat	20	0.54	0.42	0.33	0.22	0.32	0.04	0.17	- 0.82
Lewis	21	0.13	0.02	0.03	0.40	- 0.15	0.49	0.00	- 0.61
Lincoln	22	0.12	- 0.07	- 0.14	0.71	0.22	- 0.07	0.13	- 2.96
Mason	23	0.26	0.10	- 0.00	0.36	- 0.07	0.18	- 0.50	- 0.71
Okanogan	24	0.24	0.25	- 0.03	0.49	0.36	0.30	0.28	0.00
Pacific	25	0.25	0.42	- 0.06	0.73	0.40	0.19	0.07	- 0.52
Pend Oreille	26	0.09	- 0.05	- 0.13	- 0.20	- 0.27	- 0.20	- 0.28	- 2.55
Pierce	27	0.08	0.05	- 0.07	0.11	0.05	- 0.21	- 0.02	- 0.30
San Juan	28	- 0.24	- 0.26	- 0.29	0.47	0.28	0.59	0.35	- 1.35
Skagit	29	0.15	0.10	0.07	- 0.27	0.00	- 0.05	- 0.25	- 0.17
Skamania	30	0.86	0.68		0.25	- 0.01	0.12	0.39	- 1.35
Snohomish	31	- 0.03	- 0.00	- 0.04	- 0.65	0.42	0.19	0.20	0.03
Spokane	32	- 0.00	- 0.01	0.10	0.34	0.28	0.17	0.07	- 0.91
Stevens	33	0.25	0.29	0.27	0.09	0.39	0.13	0.35	- 2.26
Thurston	34	- 0.01	- 0.02	- 0.14	0.08	0.46	0.25	- 0.09	- 0.49
Wahkiakum	35	0.05	- 0.02	- 0.49	0.41	- 0.09	- 0.12	0.18	- 2.73
Walla Walla	36	0.20	0.20	0.09	0.55	0.05	0.12	0.01	0.10
Whatcom	37	0.08	0.05	- 0.12	- 0.40	0.11	- 0.09	0.43	- 0.47
Whitman	38	- 0.26	- 0.23	- 0.41	0.43	- 0.10	0.43	0.18	- 0.54
Yakima	39	0.46	0.32	0.38	0.55	0.02	0.05	0.09	0.77

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 3: County Log Ratios (continued)

County Name	Families Living in Poverty	Infant Deaths	Births to Teen Mothers (15– 19)	Mothers With Late or No Prenatal Care	Infants Born Pre-term	Infants Born With Low Birth Weight	10th Grade Drug Use (Including Marijuana)	10th Grade Binge Drinking
Adams	-0.17	-0.55	0.91	0.05	0.36	0.12	-0.46	-0.10
Asotin	0.31	0.41	0.69	-0.16	-0.10	-0.05	-0.49	-0.08
Benton	0.19	0.08	0.39	0.16	0.15	0.04	-0.18	-0.70
Chelan	-0.24	-0.15	0.34	-0.04	0.01	-0.15	-0.25	-0.19
Clallam	0.09	0.71	0.37	0.17	0.23	-0.03	-0.79	-0.63
Clark	-0.24	-0.27	0.09	-0.20	0.05	-0.05	-0.17	-0.27
Columbia	0.68	0.69	-0.01	-0.12	0.30	0.69	0.17	0.42
Cowlitz	-0.05	0.24	0.57	0.00	0.05	0.03	0.09	-0.09
Douglas	0.19	-0.59	0.45	-0.20	0.00	-0.14	-0.23	-0.10
Ferry	0.15	0.75	0.64	-0.10	0.09	-0.01	0.03	0.05
Franklin	-0.27	-0.12	0.55	0.34	0.14	-0.16	-0.04	-0.13
Garfield	-0.12		-0.54	-0.45	-0.16	-0.87	-0.10	-0.06
Grant	0.17	-0.19	0.68	0.04	-0.07	-0.10	0.05	0.10
Grays Harbor	-0.01	0.04	0.47	0.25	0.14	0.19	0.12	0.22
Island	-0.30	0.12	-0.26	0.17	-0.25	-0.22	0.03	0.03
Jefferson	0.30	0.64	-0.24	0.24	-0.09	0.08	-0.12	0.33
King	0.13	-0.12	-0.66	-0.10	-0.06	0.03	-0.05	-0.16
Kitsap	0.00	0.15	-0.18	0.08	-0.04	0.02	0.03	-0.04
Kittitas	0.17	-0.10	-0.53	-0.92	-0.07	-0.03	-0.02	-0.07
Klickitat	0.20		0.29	-0.03	0.02	-0.31	0.04	0.12
Lewis	0.19	0.64	0.56	-0.09	-0.02	0.07	0.20	0.15
Lincoln	-0.70	0.40	0.34	-0.82	-0.23	-0.22		0.06
Mason	-0.39	0.17	0.58	0.33	-0.03	-0.10	0.47	0.46
Okanogan	0.34	-0.83	0.71	0.44	0.13	0.06	0.09	0.20
Pacific	0.12	0.65	0.45	0.20	0.13	0.09	0.27	0.49
Pend Oreille	0.10	1.29	0.52	-0.19	0.21	0.04	0.24	0.47
Pierce	0.32	0.19	0.02	0.19	0.02	0.03	0.55	0.32
San Juan	0.27	-0.26	-0.18	0.18	-1.20	-0.70	0.33	0.32
Skagit	0.12	0.01	0.23	0.06	0.03	-0.08	-0.10	0.11
Skamania	0.54	-0.26	0.37	-0.01	-0.00	-0.07	0.06	0.22
Snohomish	0.68	-0.26	-0.33	0.07	-0.04	-0.05		
Spokane	0.38	0.16	0.08	-0.32	0.07	0.10	0.22	0.27
Stevens	0.62	-0.03	0.53	-0.13	-0.05	-0.11	0.17	0.11
Thurston	0.36	0.16	-0.05	0.07	0.00	-0.07	0.13	0.27
Wahkiakum	0.20	0.99	0.75	0.35	-0.44	0.14		
Walla Walla	0.14	0.25	0.56	-0.01	0.09	-0.01	-0.01	0.21
Whatcom	0.55	-0.16	-0.13	-0.03	-0.17	-0.16		
Whitman	0.45	0.38	-0.83	-0.56	-0.27	-0.14	1.15	1.13
Yakima	0.09	0.06	0.79	-0.05	0.14	0.03	-0.81	0.39

Lowest Low Neutral Higher Highest Missing one or more indicator(s)

Supplemental Table 4 (a): School Locale Prevalences (Locales 1–39)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed Households With Children Under 6	Moved Counties in the Past Year
	Washington State	33.36	5.83	0.09	0.08	0.08	0.06	0.03
1	Spokane	83.97	11.18	0.20	0.04	0.09	0.09	0.03
2	Central Valley	40.29	5.15	0.12	0.03	0.08	0.04	0.01
3	Mead	37.40		0.09	0.02	0.08	0.04	0.03
4	Pullman	29.16	4.10	0.40	0.06	0.10	0.08	0.23
5	East Valley (Spokane)	50.13		0.15	0.03	0.07	0.05	0.01
6	West Valley (Spokane)			0.12	0.03	0.09	0.06	0.02
7	Cheney	43.28		0.17	0.03	0.09	0.04	0.08
8	Riverside	39.19		0.12	0.01	0.07	0.02	0.03
9	Colville	69.52	7.89	0.19	0.01	0.08	0.09	0.02
10	Newport	69.23	9.16	0.21	0.01	0.12	0.05	0.04
11	Kettle Falls	62.23	6.44	0.21	0.00	0.12	0.08	0.05
12	Reardan	45.98	5.50	0.13	0.02	0.06	0.04	0.04
13	Colfax	47.70	5.60	0.13	0.01	0.05	0.07	0.05
14	Yakima	59.44	10.37	0.27	0.21	0.12	0.12	0.02
15	West Valley (Yakima)	30.94		0.07	0.05	0.06	0.03	0.01
16	Sunnyside	28.21	6.53	0.23	0.23	0.10	0.11	0.01
17	Ellensburg	41.92	5.19	0.28	0.04	0.07	0.07	0.15
18	Cle Elum–Roslyn	27.38	5.23	0.17	0.24	0.09	0.04	0.03
19	Selah	35.00		0.14	0.08	0.06	0.07	0.01
20	Goldendale	72.13	6.18	0.22	0.08	0.12	0.10	0.02
21	East Valley (Yakima)	42.32		0.14	0.10	0.07	0.04	0.01
22	Toppenish	53.28	9.85	0.32	0.21	0.09	0.05	0.01
23	Othello	16.14	6.00	0.23	0.30	0.09	0.09	0.05
24	Prosser	30.54	4.66	0.18	0.17	0.10	0.06	0.02
25	Kennewick	37.46	5.28	0.16	0.09	0.07	0.08	0.05
26	Columbia (Walla Walla)	42.38	4.96	0.15	0.05	0.09	0.08	0.04
27	Walla Walla	49.19	6.21	0.18	0.09	0.06	0.08	0.06
28	Clarkston	84.25	9.09	0.15	0.01	0.10	0.08	0.01
29	Pasco	29.28	7.36	0.18	0.23	0.07	0.08	0.05
30	Richland	34.72	5.67	0.10	0.04	0.06	0.08	0.03
31	Tonasket	57.03	5.45	0.19	0.06	0.10	0.08	0.02
32	Omak	67.22	7.41	0.22	0.05	0.07	0.08	0.03
33	Grand Coulee Dam	44.75		0.20	0.12	0.12	0.08	0.04
34	Ephrata	35.57	7.88	0.19	0.21	0.10	0.08	0.02
35	Lake Chelan	24.97		0.19	0.16	0.06	0.08	0.02
36	Cascade	23.43		0.14	0.07	0.08	0.08	0.02
37	Eastmont	34.60	4.41	0.14	0.11	0.07	0.08	0.04
38	Wenatchee	35.99	5.78	0.13	0.10	0.08	0.08	0.05
39	Moses Lake	62.08	11.71	0.15	0.09	0.10	0.08	0.04

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 4 (a): School Locale Prevalences (Locales 1–39) (continued)

Locale	Largest School District in Locale	Changed School Mid Year (Elementary)	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers with Late or No Prenatal Care
	Washington State	0.07	0.46	0.41	0.53	0.06	0.09	0.05
1	Spokane	0.09	0.49	0.45	0.66	0.07	0.11	0.04
2	Central Valley	0.07	0.41	0.33	0.46	0.06	0.09	0.03
3	Mead	0.04	0.35	0.29	0.51	0.07	0.11	0.03
4	Pullman	0.07	0.31	0.24	0.32	0.05	0.08	0.03
5	East Valley (Spokane)		0.55	0.53	0.40	0.08	0.10	0.05
6	West Valley (Spokane)	0.05	0.52	0.43	0.60	0.07	0.08	0.04
7	Cheney	0.07	0.44	0.39	0.41	0.07	0.11	0.02
8	Riverside	0.06	0.48	0.42	0.70	0.06	0.09	0.03
9	Colville	0.05	0.52	0.50	0.68	0.05	0.09	0.04
10	Newport	0.10	0.55	0.50	0.57	0.07	0.12	0.04
11	Kettle Falls	0.08	0.66	0.61	0.47	0.06	0.09	0.04
12	Reardan	0.05	0.48	0.39	0.43	0.06	0.08	0.03
13	Colfax	0.04	0.27	0.29	0.22	0.07	0.07	0.02
14	Yakima	0.08	0.70	0.65	0.74	0.07	0.11	0.03
15	West Valley (Yakima)	0.06	0.38	0.29	0.50	0.06	0.10	0.02
16	Sunnyside	0.06	0.74	0.58	0.71	0.06	0.10	0.07
17	Ellensburg	0.05	0.43	0.44	0.55	0.06	0.09	0.02
18	Cle Elum– Roslyn	0.08	0.72	0.67	0.65	0.06	0.09	0.06
19	Selah	0.06	0.51	0.40	0.55	0.06	0.09	0.02
20	Goldendale	0.08	0.78	0.76	0.70	0.06	0.13	0.06
21	East Valley (Yakima)	0.08	0.58	0.46	0.58	0.05	0.09	0.04
22	Toppenish	0.08	0.75	0.71	0.74	0.08	0.13	0.05
23	Othello	0.06	0.71	0.58	0.68	0.06	0.13	0.06
24	Prosser	0.06	0.59	0.44	0.72	0.07	0.11	0.07
25	Kennewick	0.08	0.54	0.53	0.56	0.07	0.12	0.06
26	Columbia (Walla Walla)	0.06	0.52	0.49	0.62	0.06	0.09	0.06
27	Walla Walla	0.05	0.54	0.51	0.54	0.06	0.10	0.04
28	Clarkston	0.08	0.47	0.50	0.67	0.06	0.09	0.04
29	Pasco	0.08	0.71	0.62	0.58	0.05	0.11	0.07
30	Richland	0.06	0.38	0.30	0.49	0.07	0.10	0.06
31	Tonasket	0.09	0.55	0.45	0.64	0.06	0.08	0.06
32	Omak	0.19	0.53	0.55	0.41	0.06	0.10	0.07
33	Grand Coulee Dam	0.10	0.67	0.63	0.49	0.06	0.10	0.08
34	Ephrata	0.09	0.67	0.57	0.79	0.05	0.08	0.06
35	Lake Chelan	0.09	0.61	0.58	0.52	0.06	0.11	0.08
36	Cascade	0.05	0.43	0.41	0.38	0.04	0.08	0.04
37	Eastmont	0.06	0.42	0.47	0.61	0.05	0.09	0.03
38	Wenatchee	0.07	0.64	0.58	0.70	0.06	0.09	0.05
39	Moses Lake	0.08	0.59	0.55	0.52	0.06	0.09	0.04

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 4 (b): School Locale Prevalences (Locales 40– 79)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0– 17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed Households With Children Under 6	Moved Counties in the Past Year
40	Lynden	37.91	3.58	0.09	0.05	0.06	0.08	0.01
41	Mount Baker	57.97		0.12	0.07	0.08	0.08	0.02
42	San Juan Island	45.10	2.28	0.12	0.02	0.06	0.08	0.03
43	Anacortes	45.95	6.69	0.10	0.01	0.06	0.08	0.04
44	Burlington Edison	43.85	8.69	0.16	0.08	0.06	0.08	0.04
45	Sultan	61.71		0.11	0.02	0.09	0.08	0.02
46	Mt Vernon	49.25	8.39	0.17	0.11	0.08	0.08	0.04
47	Arlington	38.94		0.10	0.03	0.09	0.08	0.03
48	South Whidbey	38.67		0.10	0.01	0.08	0.08	0.04
49	Edmonds	32.93	4.89	0.10	0.11	0.07	0.08	0.04
50	Everett	45.98	6.00	0.12	0.08	0.08	0.08	0.04
51	Ferndale	66.75	7.65	0.14	0.04	0.09	0.08	0.01
52	Bellingham	56.75	4.46	0.20	0.04	0.09	0.08	0.06
53	Lake Stevens	37.34	6.02	0.08	0.03	0.07	0.08	0.02
54	Marysville	63.51	6.40	0.11	0.05	0.09	0.08	0.02
55	Monroe	30.21		0.08	0.06	0.07	0.08	0.06
56	Mukilteo	42.87		0.13	0.15	0.08	0.08	0.03
57	Oak Harbor	51.35	4.61	0.11	0.04	0.09	0.08	0.04
58	Sedro Woolley	56.47	7.47	0.15	0.01	0.11	0.08	0.04
59	Snohomish	25.85		0.06	0.03	0.06	0.08	0.02
60	Stanwood	34.31		0.08	0.01	0.08	0.08	0.05
61	Riverview	19.22		0.07	0.02	0.07	0.08	0.01
62	Renton	37.75	5.06	0.14	0.17	0.07	0.08	0.02
63	Peninsula	24.71		0.06	0.02	0.08	0.08	0.03
64	University Place	32.03	6.17	0.10	0.04	0.09	0.08	0.02
65	Puyallup	34.97	6.55	0.09	0.05	0.08	0.08	0.03
66	Sumner	35.00		0.08	0.02	0.06	0.08	0.04
67	Eatonville	36.77		0.10	0.01	0.09	0.08	0.03
68	Seattle	30.23	3.43	0.14	0.09	0.06	0.08	0.02
69	Tacoma	61.17	13.17	0.17	0.08	0.10	0.08	0.04
70	Lake Washington	15.21	2.60	0.06	0.09	0.06	0.08	0.01
71	Kent	36.12	6.26	0.12	0.15	0.07	0.08	0.02
72	Federal Way	45.95	5.63	0.14	0.12	0.08	0.08	0.03
73	Highline	48.42	5.45	0.17	0.17	0.08	0.08	0.01
74	Bellevue	20.82	2.35	0.08	0.16	0.06	0.08	0.01
75	Northshore	18.44	2.80	0.06	0.07	0.06	0.08	0.04
76	Clover Park	65.35	12.97	0.19	0.10	0.13	0.08	0.04
77	Bethel	43.11		0.10	0.04	0.09	0.08	0.02
78	Issaquah	13.56		0.04	0.07	0.05	0.08	0.01
79	Auburn	55.10	7.23	0.16	0.10	0.09	0.08	0.03

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 4 (b): School Locale Prevalences (Locales 40– 79) (continued)

Locale	Largest School District in Locale	Changed School Mid Year (Elementary)	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers with Late or No Prenatal Care
40	Lynden	0.05	0.46	0.39	0.46	0.06	0.09	0.05
41	Mount Baker	0.07	0.62	0.55	0.48	0.04	0.07	0.05
42	San Juan Island	0.05	0.31	0.24	0.37	0.03	0.03	0.06
43	Anacortes	0.06	0.27	0.30	0.43	0.05	0.08	0.05
44	Burlington Edison	0.07	0.60	0.55	0.59	0.05	0.09	0.05
45	Sultan	0.08	0.49	0.39	0.62	0.07	0.12	0.06
46	Mt Vernon	0.07	0.60	0.53	0.57	0.06	0.09	0.04
47	Arlington	0.07	0.48	0.44	0.53	0.06	0.08	0.06
48	South Whidbey	0.07	0.36	0.39	0.37	0.06	0.07	0.06
49	Edmonds	0.05	0.40	0.39	0.46	0.06	0.09	0.05
50	Everett	0.08	0.38	0.36	0.53	0.06	0.10	0.06
51	Ferndale	0.06	0.59	0.55	0.64	0.05	0.09	0.04
52	Bellingham	0.06	0.44	0.39	0.40	0.06	0.07	0.04
53	Lake Stevens	0.05	0.33	0.29	0.42	0.05	0.08	0.04
54	Marysville	0.07	0.55	0.49	0.54	0.06	0.10	0.07
55	Monroe	0.05	0.48	0.52	0.53	0.06	0.09	0.04
56	Mukilteo	0.09	0.52	0.47	0.61	0.06	0.10	0.05
57	Oak Harbor	0.10	0.52	0.45	0.53	0.04	0.07	0.06
58	Sedro Woolley	0.07	0.50	0.41	0.54	0.06	0.13	0.06
59	Snohomish	0.04	0.42	0.38	0.44	0.05	0.08	0.05
60	Stanwood	0.06	0.45	0.34	0.56	0.05	0.07	0.05
61	Riverview	0.05	0.38	0.27	0.19	0.05	0.07	0.02
62	Renton	0.08	0.56	0.46	0.57	0.08	0.10	0.05
63	Peninsula	0.05	0.38	0.36	0.42	0.06	0.08	0.06
64	University Place	0.09	0.36	0.27	0.46	0.06	0.09	0.05
65	Puyallup	0.07	0.53	0.49	0.45	0.06	0.09	0.05
66	Sumner	0.05	0.28	0.21	0.43	0.06	0.09	0.04
67	Eatonville	0.08	0.51	0.48	0.43	0.05	0.09	0.05
68	Seattle	0.05	0.34	0.32	0.31	0.07	0.08	0.03
69	Tacoma	0.11	0.57	0.52	0.48	0.07	0.10	0.07
70	Lake Washington	0.04	0.20	0.18	0.34	0.06	0.08	0.03
71	Kent	0.08	0.50	0.45	0.54	0.07	0.10	0.06
72	Federal Way	0.09	0.61	0.51	0.49	0.06	0.10	0.07
73	Highline	0.08	0.63	0.50	0.45	0.07	0.11	0.06
74	Bellevue	0.06	0.27	0.21	0.37	0.07	0.08	0.05
75	Northshore	0.04	0.25	0.23	0.30	0.07	0.08	0.03
76	Clover Park	0.24	0.52	0.44	0.52	0.08	0.11	0.06
77	Bethel	0.10	0.53	0.44	0.52	0.07	0.10	0.05
78	Issaquah	0.04	0.25	0.23	0.24	0.06	0.08	0.03
79	Auburn	0.09	0.34	0.33	0.65	0.07	0.11	0.07

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 4 (c): School Locale Prevalences (Locales 80– 118)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0– 17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed Households With Children Under 6	Moved Counties in the Past Year
80	Shoreline	30.30	2.42	0.10	0.08	0.08	0.08	0.03
81	Franklin Pierce			0.16	0.08	0.11	0.08	0.03
82	Tahoma	22.91	1.67	0.05	0.02	0.08	0.08	0.01
83	Snoqualmie Valley	17.69		0.05	0.03	0.05	0.08	0.02
84	Enumclaw	30.53		0.10	0.04	0.07	0.08	0.03
85	White River	30.74		0.11	0.02	0.08	0.08	0.04
86	Mercer Island	7.44	1.10	0.05	0.05	0.05	0.08	0.00
87	Bainbridge Island	7.27	1.79	0.05	0.01	0.05	0.08	0.03
88	North Thurston	33.86	4.28	0.10	0.07	0.08	0.08	0.05
89	Olympia	38.38	4.14	0.14	0.04	0.09	0.08	0.04
90	Tumwater	32.24	4.66	0.12	0.03	0.08	0.08	0.05
91	Yelm	36.29		0.16	0.02	0.09	0.08	0.05
92	Centralia	78.34	11.06	0.22	0.07	0.14	0.08	0.08
93	Rochester	45.65		0.13	0.02	0.11	0.08	0.06
94	Shelton	62.15		0.17	0.05	0.09	0.08	0.07
95	Onalaska	55.40		0.12	0.03	0.12	0.08	0.04
96	Chehalis	47.32	5.96	0.15	0.04	0.10	0.08	0.04
97	Ocosta	71.32		0.21	0.05	0.13	0.08	0.09
98	Elma	51.70	5.53	0.16	0.02	0.17	0.08	0.03
99	Aberdeen	77.45	7.94	0.21	0.06	0.12	0.08	0.03
100	Pioneer	61.56		0.15	0.01	0.18	0.08	0.04
101	Central Kitsap	39.36		0.08	0.03	0.08	0.08	0.03
102	Port Angeles	63.81	9.19	0.14	0.01	0.09	0.08	0.02
103	Port Townsend	54.78	5.61	0.11	0.01	0.09	0.08	0.04
104	South Kitsap	38.84		0.12	0.01	0.10	0.08	0.03
105	Bremerton	79.14	7.07	0.20	0.04	0.10	0.08	0.04
106	North Kitsap	24.76		0.07	0.02	0.06	0.08	0.02
107	Quillayute Valley	69.45		0.20	0.04	0.12	0.08	0.06
108	Vancouver	46.91		0.14	0.07	0.10	0.08	0.02
109	Evergreen (Clark)	29.70		0.12	0.08	0.09	0.08	0.01
110	Battle Ground	23.56		0.09	0.04	0.07	0.08	0.01
111	Longview	77.80	10.01	0.21	0.03	0.11	0.08	0.03
112	Kelso	75.46	8.30	0.18	0.03	0.11	0.08	0.02
113	Ocean Beach	64.41	5.46	0.16	0.02	0.09	0.08	0.04
114	Woodland	43.21	6.03	0.11	0.03	0.10	0.08	0.02
115	Ridgefield	23.87		0.08	0.03	0.06	0.08	0.02
116	Camas	17.39	5.58	0.04	0.03	0.07	0.08	0.02
117	Washougal	40.22	7.59	0.09	0.01	0.09	0.08	0.01
118	White Salmon	58.60	4.96	0.14	0.04	0.06	0.08	0.01

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 4(c): School Locale Prevalences (Locales 80– 118) (continued)

Locale	Largest School District in Locale	Changed School Mid Year (Elementary)	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers with Late or No Prenatal Care
80	Shoreline	0.03	0.25	0.23	0.28	0.05	0.07	0.03
81	Franklin Pierce	0.12	0.59	0.57	0.66	0.08	0.10	0.07
82	Tahoma	0.04	0.25	0.21	0.56	0.07	0.09	0.03
83	Snoqualmie Valley	0.03	0.31	0.31	0.28	0.06	0.08	0.02
84	Enumclaw	0.04	0.41	0.46	0.32	0.04	0.06	0.05
85	White River	0.05	0.42	0.36	0.50	0.05	0.07	0.03
86	Mercer Island	0.02	0.16	0.15	0.29	0.06	0.08	0.03
87	Bainbridge Island	0.03	0.27	0.23	0.39	0.08	0.10	0.04
88	North Thurston	0.09	0.51	0.44	0.40	0.06	0.10	0.05
89	Olympia	0.08	0.32	0.26	0.47	0.06	0.09	0.05
90	Tumwater	0.07	0.42	0.42	0.48	0.07	0.09	0.05
91	Yelm	0.11	0.53	0.47	0.51	0.06	0.10	0.05
92	Centralia	0.09	0.58	0.46	0.70	0.08	0.09	0.05
93	Rochester	0.08	0.46	0.43	0.51	0.05	0.10	0.05
94	Shelton	0.07	0.54	0.46	0.54	0.04	0.08	0.05
95	Onalaska	0.09	0.56	0.38	0.47	0.07	0.10	0.05
96	Chehalis	0.06	0.45	0.43	0.48	0.06	0.09	0.03
97	Ocosta	0.06	0.62	0.64	0.49	0.06	0.11	0.08
98	Elma	0.07	0.48	0.43	0.40	0.07	0.09	0.06
99	Aberdeen	0.08	0.60	0.56	0.49	0.09	0.13	0.07
100	Pioneer	0.09	0.63	0.55	0.40	0.07	0.08	0.06
101	Central Kitsap	0.08	0.43	0.40	0.49	0.06	0.09	0.05
102	Port Angeles	0.06	0.46	0.45	0.52	0.06	0.11	0.05
103	Port Townsend	0.06	0.54	0.48	0.50	0.06	0.08	0.06
104	South Kitsap	0.08	0.48	0.37	0.52	0.06	0.09	0.06
105	Bremerton	0.11	0.46	0.43	0.54	0.08	0.10	0.07
106	North Kitsap	0.06	0.39	0.36	0.49	0.05	0.06	0.05
107	Quillayute Valley	0.08	0.59	0.33	0.42	0.06	0.13	0.06
108	Vancouver	0.09	0.41	0.46	0.66	0.06	0.10	0.05
109	Evergreen (Clark)	0.06	0.52	0.45	0.60	0.06	0.10	0.04
110	Battle Ground		0.47	0.42	0.38	0.06	0.09	0.03
111	Longview	0.11	0.66	0.59	0.71	0.07	0.09	0.06
112	Kelso	0.10	0.49	0.44	0.70	0.07	0.11	0.04
113	Ocean Beach	0.08	0.52	0.47	0.39	0.08	0.10	0.05
114	Woodland	0.08	0.49	0.41	0.47	0.07	0.09	0.05
115	Ridgefield	0.04	0.38	0.33	0.51	0.06	0.11	0.04
116	Camas	0.04	0.27	0.24	0.32	0.06	0.10	0.03
117	Washougal	0.06	0.42	0.36	0.52	0.07	0.10	0.05
118	White Salmon	0.08	0.73	0.65	0.51	0.05	0.10	0.04

■ Lowest
■ Low
■ Neutral
■ Higher
■ Highest
■ Missing one or more indicator(s)

Supplemental Table 5 (a): School Locale Relative Risks (Locales 1 – 40)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed House. With Children Under 6	Moved Counties in the Past Year
1	Spokane	2.52	1.92	2.21	0.50	1.10	1.62	0.87
2	Central Valley	1.21	0.88	1.39	0.35	1.01	0.67	0.48
3	Mead	1.12		0.99	0.25	1.06	0.61	0.96
4	Pullman	0.87	0.70	4.49	0.75	1.29	1.40	8.10
5	East Valley (Spokane)	1.50		1.73	0.35	0.86	0.91	0.31
6	West Valley (Spokane)			1.33	0.41	1.16	1.11	0.57
7	Cheney	1.30		1.92	0.34	1.11	0.67	2.87
8	Riverside	1.17		1.36	0.08	0.89	0.27	1.09
9	Colville	2.08	1.35	2.11	0.14	1.03	1.51	0.74
10	Newport	2.08	1.57	2.40	0.12	1.55	0.91	1.39
11	Kettle Falls	1.87	1.10	2.35	0.05	1.57	1.36	1.64
12	Reardan	1.38	0.94	1.42	0.24	0.74	0.62	1.37
13	Colfax	1.43	0.96	1.44	0.17	0.64	1.19	1.59
14	Yakima	1.78	1.78	2.98	2.74	1.46	2.01	0.81
15	West Valley (Yakima)	0.93		0.77	0.63	0.76	0.57	0.31
16	Sunnyside	0.85	1.12	2.62	2.97	1.28	1.84	0.31
17	Ellensburg	1.26	0.89	3.20	0.47	0.92	1.15	5.34
18	Cle Elum– Roslyn	0.82	0.90	1.95	3.17	1.09	0.63	1.14
19	Selah	1.05		1.52	1.10	0.70	1.21	0.30
20	Goldendale	2.16	1.06	2.50	1.10	1.46	1.68	0.72
21	East Valley (Yakima)	1.27		1.58	1.34	0.91	0.67	0.49
22	Toppenish	1.60	1.69	3.55	2.78	1.19	0.93	0.20
23	Othello	0.48	1.03	2.56	3.92	1.12	1.58	1.84
24	Prosser	0.92	0.80	1.98	2.23	1.30	1.08	0.73
25	Kennewick	1.12	0.91	1.81	1.16	0.84	1.43	1.55
26	Columbia (Walla Walla)	1.27	0.85	1.68	0.63	1.10	1.14	1.31
27	Walla Walla	1.47	1.06	2.02	1.12	0.80	0.93	2.00
28	Clarkston	2.53	1.56	1.71	0.08	1.21	1.06	0.47
29	Pasco	0.88	1.26	2.02	3.05	0.92	1.48	1.87
30	Richland	1.04	0.97	1.15	0.49	0.80	0.83	1.16
31	Tonasket	1.71	0.93	2.16	0.72	1.27	0.89	0.85
32	Omak	2.01	1.27	2.49	0.66	0.93	2.05	0.91
33	Grand Coulee Dam	1.34		2.23	1.52	1.57	1.12	1.36
34	Ephrata	1.07	1.35	2.15	2.74	1.23	1.17	0.83
35	Lake Chelan	0.75		2.17	2.11	0.74	0.61	0.70
36	Cascade	0.70		1.56	0.93	0.97	0.54	0.86
37	Eastmont	1.04	0.76	1.53	1.41	0.86	0.70	1.41
38	Wenatchee	1.08	0.99	1.48	1.32	1.00	0.94	1.69
39	Moses Lake	1.86	2.01	1.70	1.11	1.24	0.88	1.25
40	Lynden	1.14	0.61	1.04	0.62	0.76	0.75	0.27

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 5 (a): School Locale Relative Risks (Locales 1– 40) (continued)

Locale	Largest School District in Locale	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Changed School Mid Year (Elementary)	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care
1	Spokane	1.06	1.08	1.39	1.21	1.17	1.11	0.77
2	Central Valley	0.92	0.89	0.88	0.90	0.95	0.99	0.61
3	Mead	0.84	0.83	0.97	0.51	1.05	1.11	0.66
4	Pullman	0.79	0.77	0.69	0.94	0.82	0.81	0.59
5	East Valley (Spokane)	1.20	1.25	0.79		1.28	1.01	1.08
6	West Valley (Spokane)	1.12	1.04	1.18	0.74	1.06	0.89	0.78
7	Cheney	0.96	0.96	0.80	1.01	1.12	1.14	0.50
8	Riverside	1.04	1.02	1.59	0.88	0.94	1.00	0.59
9	Colville	1.13	1.19	1.49	0.67	0.73	0.90	0.91
10	Newport	1.21	1.17	1.11	1.32	1.15	1.26	0.87
11	Kettle Falls	1.62	1.52	0.89	1.07	1.01	0.92	0.84
12	Reardan	1.05	0.97	0.83	0.69	0.95	0.87	0.53
13	Colfax	0.74	0.83	0.61	0.56	1.10	0.74	0.49
14	Yakima	1.80	1.70	1.80	1.10	1.10	1.21	0.69
15	West Valley (Yakima)	0.87	0.83	0.95	0.82	0.97	1.05	0.36
16	Sunnyside	2.09	1.40	1.65	0.89	0.99	1.08	1.43
17	Ellensburg	0.95	1.05	1.04	0.76	0.92	0.94	0.37
18	Cle Elum– Roslyn	1.92	1.81	1.37	1.05	0.87	0.98	1.33
19	Selah	1.10	0.98	1.06	0.84	0.92	0.91	0.46
20	Goldendale	2.44	2.47	1.58	1.14	0.91	1.33	1.34
21	East Valley (Yakima)	1.30	1.10	1.13	1.06	0.74	0.96	0.92
22	Toppenish	2.15	2.00	1.85	1.06	1.21	1.37	0.96
23	Othello	1.89	1.41	1.46	0.78	0.88	1.42	1.15
24	Prosser	1.34	1.05	1.67	0.81	1.09	1.19	1.47
25	Kennewick	1.18	1.26	1.08	1.08	1.05	1.25	1.20
26	Columbia (Walla Walla)	1.12	1.15	1.24	0.86	0.98	0.97	1.17
27	Walla Walla	1.18	1.20	1.03	0.73	0.97	1.11	0.93
28	Clarkston	1.02	1.18	1.45	1.10	0.99	0.92	0.86
29	Pasco	1.85	1.54	1.13	1.16	0.84	1.12	1.49
30	Richland	0.88	0.85	0.94	0.86	1.02	1.04	1.17
31	Tonasket	1.20	1.08	1.31	1.24	0.93	0.89	1.30
32	Omak	1.15	1.32	0.81	2.64	0.98	1.09	1.52
33	Grand Coulee Dam	1.66	1.59	0.93	1.38	0.96	1.09	1.59
34	Ephrata	1.64	1.36	2.25	1.19	0.78	0.86	1.17
35	Lake Chelan	1.40	1.40	0.98	1.22	0.95	1.14	1.77
36	Cascade	0.95	1.00	0.77	0.74	0.57	0.82	0.85
37	Eastmont	0.94	1.10	1.20	0.88	0.85	0.91	0.73
38	Wenatchee	1.49	1.40	1.56	0.93	0.89	0.99	0.96
39	Moses Lake	1.32	1.31	0.99	1.08	0.99	0.91	0.75
40	Lynden	1.00	0.96	0.88	0.74	0.93	0.96	1.13

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 5 (b): School Locale Relative Risks (Locales 41 – 80)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0– 17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed House. With Children Under 6	Moved Counties in the Past Year
41	Mount Baker	1.74		1.39	0.85	1.05	0.96	0.56
42	San Juan Island	1.35	0.39	1.30	0.26	0.74	1.13	1.03
43	Anacortes	1.38	1.15	1.11	0.17	0.78	0.97	1.24
44	Burlington Edison	1.31	1.49	1.82	1.05	0.76	0.90	1.53
45	Sultan	1.85		1.27	0.29	1.14	0.40	0.83
46	Mt Vernon	1.48	1.44	1.90	1.41	0.99	1.15	1.25
47	Arlington	1.17		1.08	0.34	1.19	0.82	1.07
48	South Whidbey	1.16		1.10	0.14	1.06	0.94	1.29
49	Edmonds	0.99	0.84	1.13	1.39	0.85	1.15	1.48
50	Everett	1.38	1.03	1.39	1.08	1.04	0.98	1.22
51	Ferndale	2.00	1.31	1.59	0.58	1.13	0.93	0.51
52	Bellingham	1.70	0.77	2.28	0.57	1.10	1.17	1.93
53	Lake Stevens	1.12	1.03	0.88	0.43	0.82	0.76	0.58
54	Marysville	1.90	1.10	1.21	0.65	1.15	0.74	0.59
55	Monroe	0.91		0.89	0.81	0.94	0.73	2.08
56	Mukilteo	1.29		1.51	1.94	1.03	1.63	1.20
57	Oak Harbor	1.54	0.79	1.24	0.53	1.15	1.09	1.32
58	Sedro Woolley	1.69	1.28	1.68	0.18	1.33	1.39	1.45
59	Snohomish	0.77		0.72	0.36	0.75	0.30	0.59
60	Stanwood	1.03		0.89	0.11	0.99	1.54	1.62
61	Riverview	0.58		0.77	0.31	0.92	0.42	0.26
62	Renton	1.13	0.87	1.56	2.21	0.87	1.23	0.64
63	Peninsula	0.74		0.71	0.23	1.05	0.49	0.92
64	University Place	0.96	1.06	1.12	0.53	1.12	0.82	0.72
65	Puyallup	1.05	1.12	1.05	0.59	1.05	0.84	1.03
66	Sumner	1.05		0.90	0.26	0.80	0.76	1.33
67	Eatonville	1.10		1.16	0.18	1.14	0.66	0.99
68	Seattle	0.91	0.59	1.52	1.16	0.72	1.00	0.81
69	Tacoma	1.83	2.26	1.94	1.10	1.25	1.53	1.22
70	Lake Washington	0.46	0.45	0.63	1.14	0.70	0.25	0.51
71	Kent	1.08	1.07	1.36	1.90	0.92	0.88	0.62
72	Federal Way	1.38	0.97	1.54	1.61	1.01	1.20	1.03
73	Highline	1.45	0.94	1.92	2.24	0.96	1.36	0.45
74	Bellevue	0.62	0.40	0.91	2.07	0.80	0.56	0.34
75	Northshore	0.55	0.48	0.70	0.95	0.72	0.46	1.33
76	Clover Park	1.96	2.22	2.16	1.28	1.59	1.82	1.22
77	Bethel	1.29		1.17	0.58	1.10	1.22	0.66
78	Issaquah	0.41		0.45	0.88	0.63	0.28	0.31
79	Auburn	1.65	1.24	1.75	1.36	1.08	1.30	0.93
80	Shoreline	0.91	0.42	1.10	1.08	0.95	0.68	1.14

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 5(b): School Locale Relative Risks (Locales 41 – 80)(continued)

Locale	Largest School District in Local	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Changed School Mid Year (Elementary)	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care
41	Mount Baker	1.42	1.32	0.91	0.95	0.69	0.79	1.12
42	San Juan Island	0.79	0.77	0.75	0.74	0.53	0.28	1.35
43	Anacortes	0.74	0.84	0.83	0.85	0.76	0.81	1.06
44	Burlington Edison	1.37	1.31	1.15	1.02	0.83	0.95	0.98
45	Sultan	1.07	0.97	1.24	1.04	1.14	1.27	1.19
46	Mt Vernon	1.37	1.25	1.11	0.92	0.94	0.98	0.86
47	Arlington	1.05	1.06	1.00	0.91	0.92	0.89	1.20
48	South Whidbey	0.84	0.96	0.75	0.92	1.01	0.78	1.31
49	Edmonds	0.90	0.97	0.87	0.73	0.92	0.90	1.03
50	Everett	0.88	0.93	1.01	1.06	1.01	1.01	1.16
51	Ferndale	1.32	1.30	1.33	0.86	0.75	0.92	0.94
52	Bellingham	0.96	0.96	0.79	0.88	0.93	0.79	0.90
53	Lake Stevens	0.81	0.83	0.82	0.76	0.80	0.88	0.94
54	Marysville	1.20	1.15	1.04	1.03	1.01	1.06	1.48
55	Monroe	1.05	1.22	1.01	0.67	0.92	0.98	0.74
56	Mukilteo	1.13	1.12	1.23	1.26	0.96	1.05	1.09
57	Oak Harbor	1.13	1.06	1.01	1.31	0.69	0.75	1.25
58	Sedro Woolley	1.09	1.00	1.03	0.96	0.93	1.32	1.21
59	Snohomish	0.93	0.95	0.85	0.53	0.79	0.83	0.97
60	Stanwood	0.98	0.90	1.08	0.78	0.85	0.75	1.01
61	Riverview	0.87	0.80	0.58	0.65	0.81	0.76	0.38
62	Renton	1.24	1.09	1.11	1.13	1.17	1.07	1.07
63	Peninsula	0.87	0.92	0.82	0.71	0.94	0.85	1.33
64	University Place	0.85	0.80	0.87	1.19	0.87	0.95	1.14
65	Puyallup	1.15	1.15	0.86	0.99	0.93	0.92	1.09
66	Sumner	0.76	0.75	0.83	0.70	0.91	0.93	0.87
67	Eatonville	1.11	1.13	0.84	1.11	0.76	0.93	1.11
68	Seattle	0.83	0.87	0.69	0.62	1.03	0.88	0.57
69	Tacoma	1.25	1.22	0.91	1.49	1.12	1.08	1.50
70	Lake Washington	0.68	0.72	0.72	0.60	0.96	0.86	0.59
71	Kent	1.08	1.06	1.04	1.09	1.14	1.06	1.32
72	Federal Way	1.38	1.21	0.92	1.31	0.97	1.06	1.42
73	Highline	1.48	1.19	0.87	1.13	1.09	1.13	1.32
74	Bellevue	0.74	0.74	0.75	0.84	1.16	0.88	1.15
75	Northshore	0.73	0.77	0.67	0.52	1.04	0.87	0.61
76	Clover Park	1.14	1.06	1.00	3.27	1.19	1.18	1.24
77	Bethel	1.15	1.06	0.98	1.40	1.06	1.02	1.08
78	Issaquah	0.73	0.77	0.63	0.50	0.92	0.80	0.62
79	Auburn	0.82	0.88	1.34	1.18	1.05	1.14	1.45
80	Shoreline	0.72	0.77	0.66	0.48	0.83	0.71	0.57

■ Lowest
 ■ Low
 ■ Neutral
 ■ Higher
 ■ Highest
 ■ Missing one or more indicator(s)

Supplemental Table 5 (c): School Locale Relative Risks (Locales 81–118)

Locale	Largest School District in Locale	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty	Speak English "Less Than Very Well"	Unemployment	Female Headed Households With Children Under 6	Moved Counties in the Past Year
81	Franklin Pierce			1.83	1.05	1.42	1.52	1.02
82	Tahoma	0.69	0.29	0.61	0.28	0.95	0.29	0.27
83	Snoqualmie Valley	0.53		0.60	0.33	0.61	0.51	0.62
84	Enumclaw	0.92		1.17	0.52	0.86	0.83	1.11
85	White River	0.92		1.27	0.26	1.05	0.20	1.49
86	Mercer Island	0.22	0.19	0.51	0.59	0.65	0.03	0.10
87	Bainbridge Island	0.22	0.31	0.60	0.16	0.62	0.69	0.90
88	North Thurston	1.02	0.73	1.17	0.94	1.00	0.91	1.62
89	Olympia	1.15	0.71	1.57	0.58	1.09	1.16	1.32
90	Tumwater	0.97	0.80	1.37	0.34	1.05	0.84	1.64
91	Yelm	1.09		1.75	0.22	1.14	0.64	1.68
92	Centralia	2.35	1.90	2.52	0.93	1.82	1.73	2.86
93	Rochester	1.37		1.51	0.30	1.36	1.05	2.17
94	Shelton	1.86		1.96	0.70	1.10	0.87	2.34
95	Onalaska	1.66		1.37	0.33	1.58	0.87	1.28
96	Chehalis	1.42	1.02	1.66	0.52	1.25	1.15	1.40
97	Ocosta	2.14		2.34	0.60	1.67	1.00	3.02
98	Elma	1.55	0.95	1.84	0.22	2.13	1.43	0.95
99	Aberdeen	2.32	1.36	2.41	0.84	1.47	1.58	1.14
100	Pioneer	1.85		1.65	0.16	2.32	1.19	1.50
101	Central Kitsap	1.18		0.95	0.36	1.01	0.72	1.02
102	Port Angeles	1.91	1.58	1.57	0.18	1.20	1.51	0.75
103	Port Townsend	1.64	0.96	1.24	0.16	1.13	0.47	1.31
104	South Kitsap	1.16		1.35	0.19	1.20	0.98	1.07
105	Bremerton	2.37	1.21	2.27	0.49	1.25	2.05	1.24
106	North Kitsap	0.74		0.80	0.29	0.81	0.63	0.53
107	Quillayute Valley	2.08		2.28	0.52	1.50	2.25	1.94
108	Vancouver	1.41		1.62	0.89	1.23	1.24	0.62
109	Evergreen (Clark)	0.89		1.34	0.98	1.14	0.86	0.45
110	Battle Ground	0.71		1.01	0.52	0.85	0.49	0.34
111	Longview	2.33	1.72	2.39	0.36	1.39	1.72	1.01
112	Kelso	2.26	1.42	1.98	0.37	1.42	1.36	0.79
113	Ocean Beach	1.93	0.94	1.81	0.31	1.13	1.09	1.32
114	Woodland	1.30	1.03	1.27	0.34	1.29	0.72	0.73
115	Ridgefield	0.72		0.90	0.42	0.81	0.61	0.69
116	Camas	0.52	0.96	0.50	0.41	0.86	0.20	0.53
117	Washougal	1.21	1.30	1.04	0.18	1.12	0.76	0.37
118	White Salmon	1.76	0.85	1.60	0.54	0.70	1.34	0.47

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 5 (c): School Locale Relative Risks (Locales 81–118) (continued)

Locale	Largest School District in Locale	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Changed School Mid Year (Elementary)	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care
81	Franklin Pierce	1.34	1.38	1.38	1.62	1.18	1.04	1.55
82	Tahoma	0.73	0.75	1.07	0.55	1.09	0.93	0.65
83	Snoqualmie Valley	0.79	0.85	0.66	0.46	0.97	0.81	0.40
84	Enumclaw	0.93	1.10	0.69	0.55	0.63	0.68	0.96
85	White River	0.93	0.92	0.96	0.67	0.77	0.75	0.61
86	Mercer Island	0.64	0.70	0.67	0.31	0.91	0.81	0.68
87	Bainbridge Island	0.74	0.77	0.77	0.43	1.31	1.06	0.83
88	North Thurston	1.10	1.05	0.79	1.24	0.95	1.02	1.09
89	Olympia	0.80	0.80	0.89	1.04	0.87	0.98	1.01
90	Tumwater	0.94	1.02	0.91	1.02	1.09	0.98	1.10
91	Yelm	1.17	1.11	0.96	1.54	0.86	1.01	1.11
92	Centralia	1.30	1.08	1.56	1.26	1.18	0.97	1.14
93	Rochester	1.01	1.03	0.96	1.11	0.80	1.03	1.15
94	Shelton	1.17	1.09	1.03	0.97	0.70	0.88	1.15
95	Onalaska	1.23	0.95	0.89	1.21	1.13	1.11	1.12
96	Chehalis	0.99	1.03	0.91	0.86	0.96	0.93	0.67
97	Ocosta	1.43	1.63	0.93	0.88	0.95	1.17	1.66
98	Elma	1.04	1.03	0.78	0.96	1.08	0.98	1.34
99	Aberdeen	1.36	1.33	0.92	1.08	1.39	1.38	1.37
100	Pioneer	1.48	1.31	0.80	1.30	1.03	0.83	1.19
101	Central Kitsap	0.96	0.98	0.94	1.15	0.94	1.00	1.07
102	Port Angeles	1.01	1.08	0.98	0.88	0.96	1.19	1.05
103	Port Townsend	1.18	1.13	0.96	0.87	0.91	0.84	1.27
104	South Kitsap	1.04	0.93	0.99	1.06	0.96	0.95	1.29
105	Bremerton	1.01	1.03	1.04	1.49	1.20	1.10	1.45
106	North Kitsap	0.90	0.92	0.92	0.87	0.85	0.65	1.06
107	Quillayute Valley	1.34	0.88	0.81	1.13	0.97	1.38	1.35
108	Vancouver	0.92	1.10	1.39	1.29	0.99	1.10	0.95
109	Evergreen (Clark)	1.14	1.08	1.18	0.85	0.94	1.04	0.81
110	Battle Ground	1.02	1.01	0.77		0.86	0.98	0.60
111	Longview	1.61	1.44	1.62	1.47	1.03	0.98	1.24
112	Kelso	1.07	1.04	1.59	1.44	1.05	1.21	0.91
113	Ocean Beach	1.13	1.12	0.77	1.13	1.31	1.07	0.99
114	Woodland	1.07	1.00	0.90	1.17	1.02	0.97	1.02
115	Ridgefield	0.87	0.88	0.96	0.52	0.95	1.14	0.77
116	Camas	0.75	0.77	0.69	0.55	0.94	1.04	0.64
117	Washougal	0.93	0.92	0.99	0.88	1.03	1.08	0.96
118	White Salmon	1.98	1.66	0.98	1.12	0.80	1.02	0.77

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (a): School Locale Log Ratios (Locales 1–40)

Locale	Largest School District in Locale	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty
1	Spokane	0.16	0.15	-0.26	0.92	0.65	0.79
2	Central Valley	-0.06	-0.00	-0.51	0.19	-0.12	0.33
3	Mead	0.06	0.09	-0.44	0.11		-0.01
4	Pullman	-0.16	-0.11	-0.52	-0.13	-0.35	1.50
5	East Valley (Spokane)	0.27	0.10	0.07	0.41		0.55
6	West Valley (Spokane)	0.05	-0.21	-0.25			0.28
7	Cheney	0.11	0.14	-0.75	0.26		0.65
8	Riverside	-0.05	0.05	-0.56	0.16		0.31
9	Colville	-0.29	-0.06	-0.08	0.73	0.30	0.75
10	Newport	0.17	0.25	-0.16	0.73	0.45	0.88
11	Kettle Falls	-0.01	0.01	-0.16	0.62	0.10	0.85
12	Reardan	-0.07	-0.30	-0.63	0.32	-0.06	0.35
13	Colfax	0.21	-0.20	-0.73	0.36	-0.04	0.36
14	Yakima	0.10	0.03	-0.37	0.58	0.58	1.09
15	West Valley (Yakima)	-0.02	0.11	-1.02	-0.08		-0.27
16	Sunnyside	-0.00	0.07	0.36	-0.17	0.11	0.96
17	Ellensburg	-0.08	-0.05	-1.00	0.23	-0.12	1.16
18	Cle Elum– Roslyn	-0.14	-0.05	0.29	-0.20	-0.11	0.67
19	Selah	-0.09	-0.11	-0.77	0.05		0.42
20	Goldendale	-0.04	0.24	0.42	0.77	0.06	0.92
21	East Valley (Yakima)	-0.30	-0.26	-0.08	0.24		0.46
22	Toppenish	0.20	0.17	-0.06	0.47	0.52	1.27
23	Othello	-0.13	0.24	0.15	-0.73	0.03	0.94
24	Prosser	0.10	0.23	0.39	-0.09	-0.22	0.68
25	Kennewick	0.05	0.24	0.18	0.12	-0.10	0.59
26	Columbia (Walla Walla)	0.01	0.01	0.25	0.24	-0.16	0.52
27	Walla Walla	-0.05	-0.01	-0.09	0.39	0.06	0.70
28	Clarkston	1.19	1.32	0.10	0.93	0.44	0.53
29	Pasco	-0.16	0.07	0.39	-0.13	0.23	0.70
30	Richland	-0.00	0.14	0.16	0.04	-0.03	0.14
31	Tonasket	-0.06	-0.09	0.23	0.54	-0.07	0.77
32	Omak	-0.01	-0.05	0.42	0.70	0.24	0.91
33	Grand Coulee Dam	-0.03	0.01	0.47	0.29		0.80
34	Ephrata	-0.24	-0.16	0.14	0.06	0.30	0.76
35	Lake Chelan	-0.06	-0.07	0.57	-0.29		0.78
36	Cascade	-0.55	-0.39	-0.16	-0.35		0.44
37	Eastmont	-0.16	-0.02	-0.32	0.04	-0.28	0.43
38	Wenatchee	-0.10	-0.01	-0.07	0.08	-0.01	0.39
39	Moses Lake	-0.01	-0.12	-0.28	0.62	0.70	0.53
40	Lynden	-0.08	0.07	0.09	0.13	-0.49	0.04

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (a): School Locale Log Ratios (Locales 1–40) (continued)

Locale	Largest School District in Locale	Speak English "Less Than Very Well"	Unemploy.	Female Headed House. With Children Under 6	Moved Counties in the Past Year	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Changed School Mid Year (Elementary)
1	Spokane	-0.70	0.10	0.48	-0.13	0.06	0.07	0.33	0.19
2	Central Valley	-1.04	0.01	-0.41	-0.73	-0.09	-0.12	-0.13	-0.10
3	Mead	-1.40	0.06	-0.49	-0.04	-0.18	-0.18	-0.03	-0.67
4	Pullman	-0.29	0.26	0.34	2.09	-0.23	-0.26	-0.37	-0.06
5	East Valley (Spokane)	-1.04	-0.15	-0.09	-1.18	0.18	0.22	-0.23	
6	West Valley (Spokane)	-0.90	0.15	0.11	-0.55	0.12	0.04	0.17	-0.30
7	Cheney	-1.07	0.11	-0.39	1.05	-0.04	-0.04	-0.22	0.01
8	Riverside	-2.48	-0.12	-1.33	0.09	0.04	0.02	0.46	-0.12
9	Colville	-1.95	0.03	0.41	-0.30	0.12	0.17	0.40	-0.40
10	Newport	-2.11	0.44	-0.09	0.33	0.19	0.15	0.10	0.28
11	Kettle Falls	-3.02	0.45	0.31	0.49	0.48	0.42	-0.12	0.07
12	Reardan	-1.42	-0.30	-0.48	0.32	0.05	-0.03	-0.19	-0.37
13	Colfax	-1.77	-0.45	0.18	0.46	-0.30	-0.19	-0.49	-0.58
14	Yakima	1.01	0.38	0.70	-0.22	0.59	0.53	0.59	0.10
15	West Valley (Yakima)	-0.45	-0.28	-0.56	-1.18	-0.14	-0.19	-0.05	-0.20
16	Sunnyside	1.09	0.25	0.61	-1.16	0.74	0.34	0.50	-0.12
17	Ellensburg	-0.75	-0.08	0.14	1.67	-0.05	0.05	0.04	-0.28
18	Cle Elum–Roslyn	1.15	0.09	-0.46	0.13	0.65	0.59	0.32	0.05
19	Selah	0.09	-0.36	0.19	-1.20	0.10	-0.02	0.06	-0.17
20	Goldendale	0.10	0.38	0.52	-0.33	0.89	0.91	0.46	0.13
21	East Valley (Yakima)	0.30	-0.10	-0.40	-0.72	0.27	0.09	0.12	0.06
22	Toppenish	1.02	0.18	-0.08	-1.60	0.77	0.69	0.62	0.05
23	Othello	1.37	0.11	0.46	0.61	0.64	0.34	0.38	-0.25
24	Prosser	0.80	0.26	0.08	-0.31	0.29	0.05	0.52	-0.20
25	Kennewick	0.14	-0.18	0.36	0.44	0.17	0.23	0.08	0.08
26	Columbia (Walla Walla)	-0.46	0.10	0.13	0.27	0.11	0.14	0.22	-0.15
27	Walla Walla	0.11	-0.23	-0.07	0.70	0.17	0.18	0.03	-0.32
28	Clarkston	-2.50	0.19	0.06	-0.76	0.02	0.16	0.37	0.09
29	Pasco	1.11	-0.08	0.39	0.63	0.62	0.43	0.13	0.15
30	Richland	-0.72	-0.23	-0.19	0.15	-0.13	-0.17	-0.07	-0.16
31	Tonasket	-0.33	0.24	-0.12	-0.16	0.18	0.08	0.27	0.21
32	Omak	-0.42	-0.08	0.72	-0.09	0.14	0.27	-0.21	0.97
33	Grand Coulee Dam	0.42	0.45	0.11	0.30	0.51	0.46	-0.08	0.33
34	Ephrata	1.01	0.21	0.16	-0.19	0.50	0.31	0.81	0.17
35	Lake Chelan	0.75	-0.30	-0.50	-0.35	0.34	0.33	-0.02	0.20
36	Cascade	-0.07	-0.03	-0.62	-0.15	-0.05	-0.00	-0.27	-0.30
37	Eastmont	0.34	-0.15	-0.36	0.34	-0.07	0.10	0.19	-0.13
38	Wenatchee	0.28	0.00	-0.07	0.53	0.40	0.33	0.45	-0.08
39	Moses Lake	0.11	0.22	-0.13	0.23	0.28	0.27	-0.01	0.08
40	Lynden	-0.48	-0.27	-0.28	-1.31	0.00	-0.04	-0.13	-0.30

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (b): School Locale Log Ratios (Locales 41–80)

Locale	Largest School District in Locale	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty
41	Mount Baker	-0.36	-0.10	0.10	0.55		0.33
42	San Juan Island	-0.62	-0.96	0.31	0.30	-0.94	0.26
43	Anacortes	-0.26	-0.04	0.06	0.32	0.14	0.10
44	Burlington Edison	-0.17	0.00	-0.04	0.27	0.40	0.60
45	Sultan	0.14	0.22	0.18	0.62		0.24
46	Mt Vernon	-0.07	-0.14	-0.17	0.39	0.36	0.64
47	Arlington	-0.07	-0.07	0.19	0.15		0.08
48	South Whidbey	0.02	-0.08	0.28	0.15		0.10
49	Edmonds	-0.08	-0.08	0.03	-0.01	-0.18	0.12
50	Everett	0.01	0.04	0.15	0.32	0.03	0.33
51	Ferndale	-0.27	0.04	-0.05	0.69	0.27	0.46
52	Bellingham	-0.06	-0.08	-0.12	0.53	-0.27	0.82
53	Lake Stevens	-0.23	-0.10	-0.06	0.11	0.03	-0.13
54	Marysville	0.01	0.15	0.39	0.64	0.09	0.19
55	Monroe	-0.09	0.05	-0.31	-0.10		-0.11
56	Mukilteo	-0.03	0.06	0.08	0.25		0.41
57	Oak Harbor	-0.37	-0.31	0.20	0.43	-0.24	0.22
58	Sedro Woolley	-0.06	0.25	0.17	0.53	0.25	0.52
59	Snohomish	-0.23	-0.01	-0.04	-0.26		-0.32
60	Stanwood	-0.15	-0.09	0.01	0.03		-0.12
61	Riverview	-0.20	-0.15	-0.97	-0.55		-0.26
62	Renton	0.17	0.03	0.07	0.12	-0.14	0.44
63	Peninsula	-0.05	0.01	0.28	-0.30		-0.34
64	University Place	-0.13	-0.19	0.13	-0.04	0.06	0.12
65	Puyallup	-0.07	-0.04	0.07	0.05	0.12	0.05
66	Sumner	-0.10	0.01	-0.13	0.05		-0.11
67	Eatonville	-0.27	-0.07	0.11	0.10		0.15
68	Seattle	0.04	-0.06	-0.57	-0.10	-0.53	0.42
69	Tacoma	0.12	0.06	0.40	0.61	0.81	0.66
70	Lake Washington	-0.03	-0.14	-0.53	-0.79	-0.81	-0.46
71	Kent	0.14	0.08	0.28	0.08	0.07	0.31
72	Federal Way	-0.03	0.04	0.35	0.32	-0.03	0.43
73	Highline	0.09	0.05	0.28	0.37	-0.07	0.65
74	Bellevue	0.15	-0.08	0.13	-0.47	-0.91	-0.10
75	Northshore	0.05	-0.06	-0.50	-0.59	-0.73	-0.35
76	Clover Park	0.18	0.07	0.21	0.67	0.80	0.77
77	Bethel	0.06	0.08	0.08	0.26		0.16
78	Issaquah	-0.07	-0.16	-0.48	-0.90		-0.79
79	Auburn	0.05	0.18	0.36	0.50	0.21	0.56
80	Shoreline	-0.18	-0.29	-0.56	-0.10	-0.88	0.09

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (b): School Locale Log Ratios (Locales 41–80) (continued)

Locale	Largest School District in Locale	Speak English "Less Than Very Well"	Unemploy.	Female Headed House. With Children Under 6	Moved Counties in the Past Year	Failed 3rd Grade ELA	Failed 3rd Grade Math	Failed WaKIDS	Changed School Mid Year (Elementary)
41	Mount Baker	-0.16	0.05	-0.05	-0.59	0.35	0.28	-0.09	-0.05
42	San Juan Island	-1.36	-0.30	0.12	0.03	-0.24	-0.26	-0.29	-0.30
43	Anacortes	-1.77	-0.24	-0.03	0.21	-0.30	-0.18	-0.18	-0.17
44	Burlington Edison	0.05	-0.28	-0.11	0.42	0.32	0.27	0.14	0.02
45	Sultan	-1.22	0.13	-0.92	-0.19	0.07	-0.03	0.21	0.04
46	Mt Vernon	0.35	-0.01	0.14	0.22	0.31	0.22	0.10	-0.08
47	Arlington	-1.08	0.18	-0.20	0.07	0.04	0.06	-0.00	-0.10
48	South Whidbey	-2.00	0.06	-0.06	0.26	-0.17	-0.04	-0.29	-0.09
49	Edmonds	0.33	-0.16	0.14	0.39	-0.10	-0.03	-0.14	-0.31
50	Everett	0.08	0.04	-0.02	0.20	-0.13	-0.08	0.01	0.05
51	Ferndale	-0.54	0.12	-0.07	-0.67	0.28	0.26	0.28	-0.15
52	Bellingham	-0.56	0.10	0.16	0.66	-0.04	-0.04	-0.24	-0.13
53	Lake Stevens	-0.85	-0.20	-0.27	-0.54	-0.21	-0.18	-0.20	-0.28
54	Marysville	-0.43	0.14	-0.30	-0.53	0.19	0.14	0.04	0.03
55	Monroe	-0.21	-0.07	-0.32	0.73	0.05	0.20	0.01	-0.40
56	Mukilteo	0.66	0.03	0.49	0.18	0.12	0.11	0.21	0.23
57	Oak Harbor	-0.63	0.14	0.09	0.28	0.12	0.06	0.01	0.27
58	Sedro Woolley	-1.69	0.28	0.33	0.37	0.09	-0.00	0.03	-0.05
59	Snohomish	-1.01	-0.29	-1.19	-0.53	-0.07	-0.05	-0.16	-0.64
60	Stanwood	-2.25	-0.01	0.43	0.48	-0.02	-0.11	0.07	-0.25
61	Riverview	-1.17	-0.08	-0.88	-1.33	-0.14	-0.22	-0.54	-0.43
62	Renton	0.79	-0.13	0.21	-0.44	0.21	0.09	0.10	0.13
63	Peninsula	-1.47	0.05	-0.72	-0.08	-0.14	-0.08	-0.20	-0.34
64	University Place	-0.63	0.12	-0.20	-0.33	-0.17	-0.22	-0.14	0.18
65	Puyallup	-0.52	0.05	-0.17	0.03	0.14	0.14	-0.15	-0.01
66	Sumner	-1.33	-0.23	-0.28	0.28	-0.28	-0.29	-0.18	-0.36
67	Eatonville	-1.72	0.13	-0.42	-0.01	0.11	0.12	-0.18	0.11
68	Seattle	0.14	-0.33	0.00	-0.21	-0.19	-0.14	-0.38	-0.47
69	Tacoma	0.09	0.23	0.42	0.20	0.22	0.20	-0.09	0.40
70	Lake Washington	0.13	-0.36	-1.37	-0.67	-0.39	-0.33	-0.33	-0.52
71	Kent	0.64	-0.08	-0.13	-0.48	0.08	0.06	0.04	0.09
72	Federal Way	0.47	0.01	0.18	0.03	0.32	0.19	-0.08	0.27
73	Highline	0.81	-0.04	0.31	-0.80	0.39	0.17	-0.14	0.12
74	Bellevue	0.73	-0.23	-0.57	-1.07	-0.30	-0.30	-0.29	-0.18
75	Northshore	-0.05	-0.33	-0.78	0.29	-0.32	-0.27	-0.40	-0.65
76	Clover Park	0.25	0.47	0.60	0.19	0.13	0.05	-0.00	1.18
77	Bethel	-0.54	0.10	0.20	-0.42	0.14	0.06	-0.02	0.34
78	Issaquah	-0.13	-0.46	-1.28	-1.18	-0.32	-0.26	-0.47	-0.69
79	Auburn	0.31	0.07	0.26	-0.07	-0.20	-0.13	0.29	0.16
80	Shoreline	0.07	-0.05	-0.39	0.13	-0.32	-0.26	-0.42	-0.73

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (c): School Locale Log Ratios (Locales 81–118)

Locale	Largest School District in Locale	Infants Born With Low Birth Weight	Infants Born Preterm	Mothers With Late or No Prenatal Care	Child Abuse Per 1000 (Age 0–17)	IPV Rate Per 1000	Families Living in Poverty
81	Franklin Pierce	0.18	0.07	0.44			0.60
82	Tahoma	0.07	0.01	-0.43	-0.38	-1.25	-0.50
83	Snoqualmie Valley	-0.03	-0.20	-0.91	-0.63		-0.52
84	Enumclaw	-0.45	-0.65	-0.03	-0.09		0.16
85	White River	-0.29	-0.31	-0.49	-0.08		0.24
86	Mercer Island	-0.12	-0.07	-0.39	-1.50	-1.66	-0.67
87	Bainbridge Island	0.29	0.18	-0.18	-1.52	-1.18	-0.51
88	North Thurston	-0.05	-0.01	0.08	0.01	-0.31	0.16
89	Olympia	-0.14	-0.05	0.00	0.14	-0.34	0.45
90	Tumwater	0.10	0.12	0.10	-0.03	-0.22	0.31
91	Yelm	-0.14	-0.02	0.10	0.08		0.56
92	Centralia	0.16	0.15	0.12	0.85	0.64	0.92
93	Rochester	-0.21	-0.01	0.12	0.31		0.41
94	Shelton	-0.35	-0.32	0.14	0.62		0.67
95	Onalaska	0.08	0.14	0.12	0.51		0.32
96	Chehalis	-0.08	-0.09	-0.40	0.35	0.02	0.51
97	Ocosta	-0.03	-0.13	0.52	0.76		0.85
98	Elma	0.09	-0.04	0.29	0.44	-0.05	0.61
99	Aberdeen	0.34	0.27	0.32	0.84	0.31	0.88
100	Pioneer	0.04	-0.13	0.18	0.61		0.50
101	Central Kitsap	-0.06	-0.01	0.07	0.17		-0.05
102	Port Angeles	-0.03	-0.05	0.04	0.65	0.46	0.45
103	Port Townsend	-0.08	-0.03	0.24	0.50	-0.04	0.22
104	South Kitsap	-0.03	0.07	0.24	0.15		0.30
105	Bremerton	0.20	0.10	0.37	0.86	0.19	0.82
106	North Kitsap	-0.16	-0.43	0.06	-0.30		-0.22
107	Quillayute Valley	-0.05	-0.08	0.31	0.73		0.83
108	Vancouver	-0.10	-0.04	-0.03	0.34		0.43
109	Evergreen (Clark)	-0.17	-0.11	-0.18	-0.12		0.29
110	Battle Ground	-0.22	-0.16	-0.49	-0.35		0.01
111	Longview	-0.04	-0.09	0.22	0.85	0.54	0.87
112	Kelso	-0.08	-0.06	-0.04	0.82	0.35	0.68
113	Ocean Beach	0.05	0.22	0.34	0.66	-0.07	0.59
114	Woodland	-0.08	-0.32	-0.07	0.26	0.03	0.24
115	Ridgefield	-0.07	-0.11	-0.25	-0.33		-0.10
116	Camas	-0.05	-0.03	-0.49	-0.65	-0.04	-0.69
117	Washougal	-0.01	-0.06	-0.02	0.19	0.26	0.04
118	White Salmon	0.20	-0.21	-0.61	0.56	-0.16	0.47

Lowest
 Low
 Neutral
 Higher
 Highest
 Missing one or more indicator(s)

Supplemental Table 6 (c): School Locale Log Ratios (Locales 81–118) (continued)

Locale	Largest School District in Locale	Speak English "Less Than Very Well"	Unemploy.	Female Headed House. With Children Under 6	Moved Counties in the Past Year	3rd Grade ELA Fail	3rd Grade Math Fail	WA KIDS Fail	Changed School Mid Year (Elementary)
81	Franklin Pierce	0.05	0.35	0.42	0.02	0.29	0.32	0.32	0.48
82	Tahoma	-1.26	-0.05	-1.24	-1.30	-0.32	-0.29	0.07	-0.60
83	Snoqualmie Valley	-1.11	-0.50	-0.66	-0.49	-0.23	-0.16	-0.42	-0.77
84	Enumclaw	-0.66	-0.15	-0.19	0.11	-0.08	0.09	-0.36	-0.60
85	White River	-1.35	0.05	-1.60	0.40	-0.07	-0.09	-0.05	-0.39
86	Mercer Island	-0.52	-0.44	-3.61	-2.27	-0.44	-0.36	-0.40	-1.16
87	Bainbridge Island	-1.85	-0.48	-0.38	-0.11	-0.30	-0.27	-0.26	-0.85
88	North Thurston	-0.06	0.00	-0.10	0.48	0.09	0.05	-0.24	0.22
89	Olympia	-0.55	0.08	0.15	0.28	-0.23	-0.23	-0.12	0.04
90	Tumwater	-1.07	0.05	-0.17	0.50	-0.06	0.02	-0.09	0.02
91	Yelm	-1.49	0.13	-0.45	0.52	0.15	0.10	-0.04	0.43
92	Centralia	-0.08	0.60	0.55	1.05	0.26	0.08	0.44	0.23
93	Rochester	-1.19	0.31	0.05	0.77	0.01	0.03	-0.04	0.11
94	Shelton	-0.36	0.09	-0.14	0.85	0.16	0.08	0.03	-0.03
95	Onalaska	-1.12	0.46	-0.14	0.25	0.21	-0.05	-0.12	0.19
96	Chehalis	-0.66	0.23	0.14	0.34	-0.01	0.03	-0.10	-0.15
97	Ocosta	-0.51	0.51	0.00	1.11	0.36	0.49	-0.08	-0.13
98	Elma	-1.53	0.76	0.36	-0.05	0.04	0.03	-0.24	-0.05
99	Aberdeen	-0.17	0.39	0.46	0.13	0.31	0.29	-0.08	0.07
100	Pioneer	-1.84	0.84	0.18	0.40	0.39	0.27	-0.23	0.26
101	Central Kitsap	-1.02	0.01	-0.32	0.02	-0.05	-0.02	-0.07	0.14
102	Port Angeles	-1.69	0.18	0.41	-0.29	0.01	0.08	-0.02	-0.13
103	Port Townsend	-1.84	0.12	-0.76	0.27	0.16	0.13	-0.05	-0.14
104	South Kitsap	-1.68	0.18	-0.02	0.07	0.04	-0.07	-0.01	0.06
105	Bremerton	-0.71	0.23	0.72	0.22	0.01	0.03	0.03	0.40
106	North Kitsap	-1.23	-0.21	-0.46	-0.64	-0.11	-0.08	-0.08	-0.13
107	Quillayute Valley	-0.65	0.41	0.81	0.66	0.29	-0.12	-0.21	0.13
108	Vancouver	-0.11	0.21	0.22	-0.48	-0.08	0.09	0.33	0.25
109	Evergreen (Clark)	-0.02	0.13	-0.15	-0.81	0.13	0.07	0.17	-0.16
110	Battle Ground	-0.65	-0.16	-0.72	-1.07	0.02	0.01	-0.27	
111	Longview	-1.03	0.33	0.54	0.01	0.48	0.36	0.48	0.39
112	Kelso	-1.00	0.35	0.31	-0.23	0.07	0.04	0.46	0.36
113	Ocean Beach	-1.19	0.13	0.09	0.28	0.12	0.11	-0.26	0.12
114	Woodland	-1.07	0.25	-0.33	-0.31	0.07	-0.00	-0.10	0.16
115	Ridgefield	-0.86	-0.21	-0.49	-0.36	-0.13	-0.12	-0.04	-0.66
116	Camas	-0.90	-0.15	-1.62	-0.64	-0.29	-0.26	-0.37	-0.60
117	Washougal	-1.74	0.11	-0.28	-0.99	-0.07	-0.08	-0.01	-0.12
118	White Salmon	-0.61	-0.36	0.29	-0.76	0.68	0.51	-0.02	0.11

Lowest
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Supplemental Table 7: Race/Ethnicity Prevalences

Race	10th Grade Binge Drinking	10th Grade Drug Use	Failed WaKIDS	Failed 3rd Grade ELA	Failed 3rd Grade Math	Unemployment	Families in Poverty
Hispanic Only	12.9	22.4	0.68	0.65	0.58	0.10	0.18
NH White Only	9.6	16.8	0.47	0.38	0.34	0.07	0.07
NH Black Only	15.5	27	0.58	0.63	0.60	0.12	0.18
NH Amer Ind Only	16	27.9	0.68	0.74	0.66	0.14	0.22
NH Asian Only	5.2	9.3	0.42	0.27	0.21	0.06	0.08
NH NHOPi Only	14.9	22.4	0.72	0.67	0.63	0.13	0.13
NH Multiple Race	13	19.4	0.49	0.41	0.38	0.12	0.09
Washington State	10.8	18.6	0.53	0.46	0.41	0.08	0.09

Race	Female Headed House With Kids Under 6	Limited English	Moved Counties	LBW	Preterm	Late/no Prenatal Care	Teen births (15–19)	Infant Death
Hispanic Only	0.13	0.29	0.07	6.10	10.49	7.91	9.51	4.54
NH White Only	0.05	0.04	0.07	5.86	8.67	5.21	3.43	4.09
NH Black Only	0.13	0.06	0.08	10.08	12.59	10.20	4.45	8.50
NH Amer Ind Only	0.10	0.04	0.06	8.37	16.58	13.72	10.06	7.80
NH Asian Only	0.04	0.33	0.06	8.16	9.70	5.61	0.77	3.54
NH NHOPi Only	0.13	0.11	0.12	6.70	14.41	18.62	6.20	5.86
NH Multiple Race	0.09	0.04	0.09	7.38	10.38	7.85	8.02	5.96
Washington State	0.06	0.08	0.07	6.41	9.52	6.33	4.64	4.46

Supplemental Table 8: Race/Ethnicity Relative Risks

Race	Failed WaKIDS	Failed 3rd Grade ELA	Failed 3rd Grade Math	Unemployment	Families in Poverty	Female Headed House With Kids Under 6	Limited English
Hispanic Only	1.47	1.55	1.41	1.24	2.07	2.30	3.78
NH White Only	0.89	0.87	0.89	0.91	0.75	0.91	0.47
NH Black Only	1.14	1.47	1.46	1.54	2.03	2.32	0.78
NH Amer Ind Only	1.48	2.05	1.74	1.72	2.45	1.81	0.45
NH Asian Only	0.82	0.75	0.75	0.81	0.87	0.77	4.32
NH NHOPi Only	1.69	1.67	1.61	1.62	1.46	2.33	1.38
NH Multiple Race	0.93	0.92	0.95	1.46	1.03	1.54	0.45

Race	Moved Counties	LBW	Preterm	Late/no Prenatal Care	Teen Births (15–19)	Infant Death	10th Grade Binge Drinking	10th Grade Drug Use
Hispanic Only	1.09	0.95	1.10	1.25	2.05	1.02	1.19	1.20
NH White Only	0.97	0.91	0.91	0.82	0.74	0.92	0.89	0.90
NH Black Only	1.19	1.57	1.32	1.61	0.96	1.91	1.44	1.45
NH Amer Ind Only	0.93	1.31	1.74	2.17	2.17	1.75	1.48	1.50
NH Asian Only	0.94	1.27	1.02	0.89	0.17	0.79	0.48	0.50
NH NHOPi Only	1.78	1.05	1.51	2.94	1.34	1.31	1.38	1.20
NH Multiple Race	1.34	1.15	1.09	1.24	1.73	1.34	1.20	1.04

Supplemental Table 9: Race/Ethnicity Log Ratios

Race	Low income Births 2013 – 2015	Failed WaKIDS	Failed 3rd Grade ELA	Failed 3rd Grade Math	Unemployment	Families in Poverty	Female Head House With Kids Under 6
Hispanic Only	37718	0.38	0.44	0.34	0.22	0.73	0.83
NH White Only	61617	-0.12	-0.14	-0.11	-0.09	-0.28	-0.09
NH Black Only	8227	0.13	0.39	0.38	0.43	0.71	0.84
NH Amer Ind Only	2986	0.39	0.72	0.55	0.54	0.90	0.59
NH Asian Only	6183	-0.19	-0.29	-0.29	-0.21	-0.14	-0.26
NH NHOPI Only	2545	0.53	0.51	0.48	0.48	0.38	0.85
NH Multiple Race	5718	-0.07	-0.08	-0.05	0.38	0.03	0.43

Race	Limited English	Moved Counties	LBW	Preterm	Late or No Prenatal Care	Teen Births (15– 19)	Infant Deaths	10th Grade Binge Drinking	10th Grade Drug Use
Hispanic Only	1.33	0.09	-0.05	0.10	0.22	0.72	0.02	0.18	0.19
NH White Only	-0.76	-0.03	-0.09	-0.09	-0.19	-0.30	-0.09	-0.12	-0.10
NH Black Only	-0.25	0.18	0.45	0.28	0.48	-0.04	0.64	0.36	0.37
NH Amer Ind Only	-0.79	-0.08	0.27	0.55	0.77	0.77	0.56	0.39	0.41
NH Asian Only	1.46	-0.06	0.24	0.02	-0.12	-1.80	-0.23	-0.73	-0.69
NH NHOPI Only	0.32	0.57	0.04	0.41	1.08	0.29	0.27	0.32	0.19
NH Multiple Race	-0.79	0.30	0.14	0.09	0.22	0.55	0.29	0.19	0.04



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