Social Determinants of Health and Health Data Panel

28th Annual Nebraska Data Users Conference, 9:00-10:00 A.M., August 16, 2017

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Place Matters: Lincoln maps highlight health disparities across neighborhoods, zip codes



JUNE 13, 2015 11:00 PM • BY ERIN ANDERSEN | LINCOLN JOURNAL STAR

The average life expectancy of a southeast Lincoln resident is 91.8 years.

But, head north or west, and your life expectancy drops -not by years, but by decades.

Just seven miles separates whether you will live into your 90s, or die in your 60s, according to Lincoln/Lancaster County Health Department statistics.

"Where we live affects how we live," said Lori Vrtiska Seibel, president and CEO of Community Health Endowment of Lincoln

Generally speaking, the more impoverished your neighbors and neighborhood, the worse off you are in nearly every demographic category.

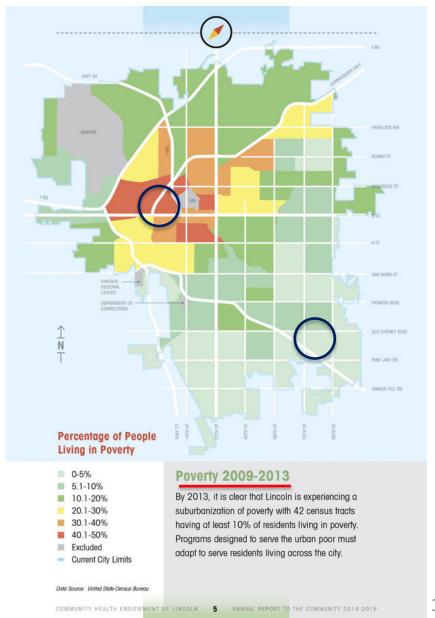
"These are big issues; not little tweaks," Seibel said. "Literally it is shaving years off of a person's life."

"A person's ZIP code is more important to their health than their genetic code," according to David Erickson, director of the Center for Community Development Investments with the Federal Reserve Bank of San Francisco, California, and a national guru on the relationship between health, housing and community development.



A look at some determinant related maps







Data on Health Topics from Census



- <u>Disability</u> ACS asks about 6 different types of difficulties and having one or more creates a "has disability or not" variable
 - Vision, Hearing, Cognitive, Ambulatory (walking/climbing stairs), self-care (dressing/bathing), and independent living (shopping, visiting a doctor)
- Health Insurance Coverage ACS and CPS define the "uninsured"
 - ACS asks about 7 specific different types of coverage
 - Private: employer/union, direct purchase, TRICARE or military
 - Public: Medicare, Medicaid, VA, CHIP, etc.
- ACS questions on disability were redesigned in 2008; it asked the first health insurance questions in 2008 (CPS from 1999)
- Fertility birth in the past year for women aged 15-50
 - Annual data on ACS; bi-annual from CPS June supplement
- Much of the Census data's "power" is from cross-tabulation by other characteristics (education level, income, age, LF status)



Census Variables on Health Determinants

- ts 🧸
- Many socio-economic characteristics might relate to a person's or household's health status
 - Education level
 - Employment/Unemployment
 - Income/Poverty/Food Stamp (SNAP) recipiency
 - Home ownership (vs. renting)
 - Home occupancy/vacancy in neighborhood
 - Moves in the last year/when person moved into unit (residential turnover)
 - Language spoken/Foreign born (new immigrants)
 - Age of housing stock
 - Household/Family type
 - Persons living alone; "single parents"; grandparents responsible for grandchildren
 - Demographics: Age, Gender, Race/Ethnicity

SELECTED CHARACTERISTICS OF HEALTH INSURANCE COVERAGE IN THE UNITED STATES 2011-2015 American Community Survey 5-Year Estimates

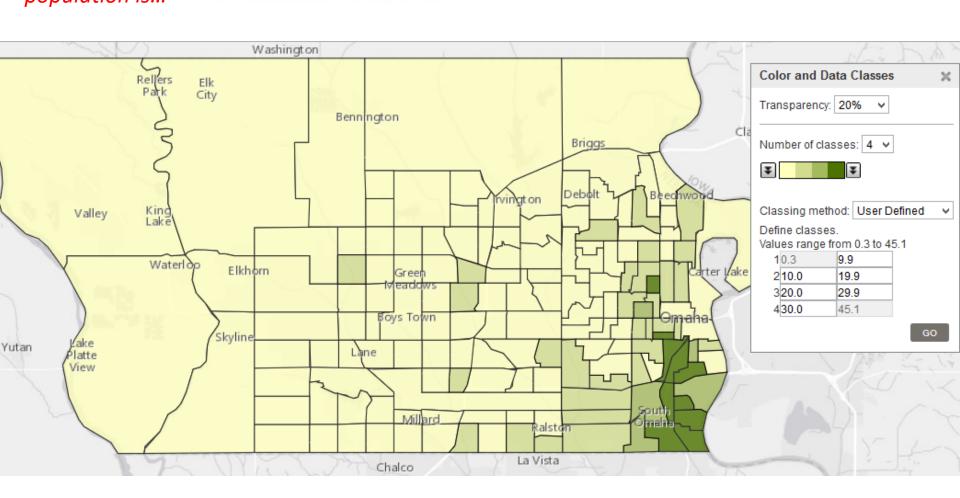
							Douglas County, Nebraska						
		Total	I	nsured	Perc	ent Insured	Uı	ninsured	Perce	nt Uninsured			
Subject	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error			
Civilian noninstitutionalized population	531,473	+/-446	471,455	+/-1,879	88.7%	+/-0.3	60,018	+/-1,848	11.3%	+/-0.3			
AGE													
Under 18 years	138,542	+/-89	131,672	+/-662	95.0%	+/-0.5	6,870	+/-653	5.0%	+/-0.5			
Under 6 years	49.188	+/-544	47.015	+/-733	95.6%	+/-0.5	2.173	+/-341	4.4%	+/-0.5			
6 to 17 years	89,354	+/-544	84,657	+/-687	94.7%	+/-0.7	4,697	+/-519	5.3%	+/-0.7			
•	334.578	+/-338	281,821	+/-1.675	84.2%	+/-0.5	52,757		15.8%	+/-0.5			
18 to 64 years	50,657	+/-338	41,153	+/-1,075	81.2%	+/-0.5	9,504	+/-1,633 +/-716	18.8%	+/-0.5			
18 to 24 years	,		,										
25 to 34 years	85,010 68,701	+/-188 +/-131	68,099 56,258	+/-862 +/-737	80.1% 81.9%	+/-1.0 +/-1.1	16,911 12,443	+/-809 +/-730	19.9% 18.1%	+/-1.0 +/-1.1			
35 to 44 years							,						
45 to 54 years	69,166	+/-125	60,153	+/-611	87.0%	+/-0.9	9,013	+/-592	13.0%	+/-0.9			
55 to 64 years	61,044	+/-125	56,158	+/-431	92.0%	+/-0.7	4,886	+/-404	8.0%	+/-0.7			
65 years and older	58,353	+/-273	57,962	+/-325	99.3%	+/-0.3	391	+/-191	0.7%	+/-0.3			
65 to 74 years	33,274	+/-146	33,016	+/-191	99.2%	+/-0.4	258	+/-141	0.8%	+/-0.4			
75 years and older	25,079	+/-237	24,946	+/-264	99.5%	+/-0.5	133	+/-131	0.5%	+/-0.5			
19 to 25 years	52,008	+/-676	41,854	+/-894	80.5%	+/-1.4	10,154	+/-748	19.5%	+/-1.4			
SEX													
Male	260,778	+/-352	228,496	+/-1,304	87.6%	+/-0.5	32,282	+/-1,222	12.4%	+/-0.5			
Female	270,695	+/-257	242,959	+/-1,089	89.8%	+/-0.4	27,736	+/-1,106	10.2%	+/-0.4			
RACE AND HISPANIC OR LATINO ORIGIN													
White alone	420,430	+/-1,754	380,490	+/-2.016	90.5%	+/-0.4	39,940	+/-1,504	9.5%	+/-0.4			
Black or African American alone	59,333	+/-827	49,590	+/-924	83.6%	+/-1.2	9,743	+/-764	16.4%	+/-1.2			
American Indian and Alaska Native alone	3.275	+/-474	2,243	+/-347	68.5%	+/-6.8	1,032	+/-297	31.5%	+/-6.8			
Asian alone	16.885	+/-407	15,539	+/-455	92.0%	+/-1.4	1,346	+/-234	8.0%	+/-1.4			
Native Hawaiian and Other Pacific Islander alone	215	+/-56	134	+/-51	62.3%	+/-17.6	81	+/-45	37.7%	+/-17.6			
Some other race alone	16,750	+/-1,591	10,566	+/-1,125	63.1%	+/-3.6	6,184	+/-873	36.9%	+/-3.6			
Two or more races	14,585	+/-928	12,893	+/-846	88.4%	+/-1.8	1,692	+/-296	11.6%	+/-1.8			
Hispanic or Latino (of any race)	62,910	+/-163	44,050	+/-1,005	70.0%	+/-1.6	18,860	+/-1,028	30.0%	+/-1.6			
White alone, not Hispanic or Latino	377,530	+/-524	349,694	+/-1,445	92.6%	+/-0.4	27,836	+/-1,365	7.4%	+/-0.4			
NATIVITY AND U.S. CITIZENSHIP STATUS								- 10					
Native born	482,880	+/-1.391	440,357	+/-2.029	91.2%	+/-0.4	42,523	+/-1,766	8.8%	+/-0.4			
Foreign born	48,593	+/-1,306	31,098	+/-1.026	64.0%	+/-1.7	17,495	+/-1,025	36.0%	+/-1.7			
Naturalized	15,639	+/-862	13,230	+/-714	84.6%	+/-2.4	2,409	+/-426	15.4%	+/-2.4			
Not a citizen	32,954	+/-1,354	17,868	+/-932	54.2%	+/-2.1	15,086	+/-987	45.8%	+/-2.1			

So if you know or can find out where your foreign born population is...

DP02

SELECTED SOCIAL CHARACTERISTICS IN THE UNITED STATES 2011-2015 American Community Survey 5-Year Estimates

Thematic Map of Percent; PLACE OF BIRTH - Total population - Foreign born Geography: by Census Tract

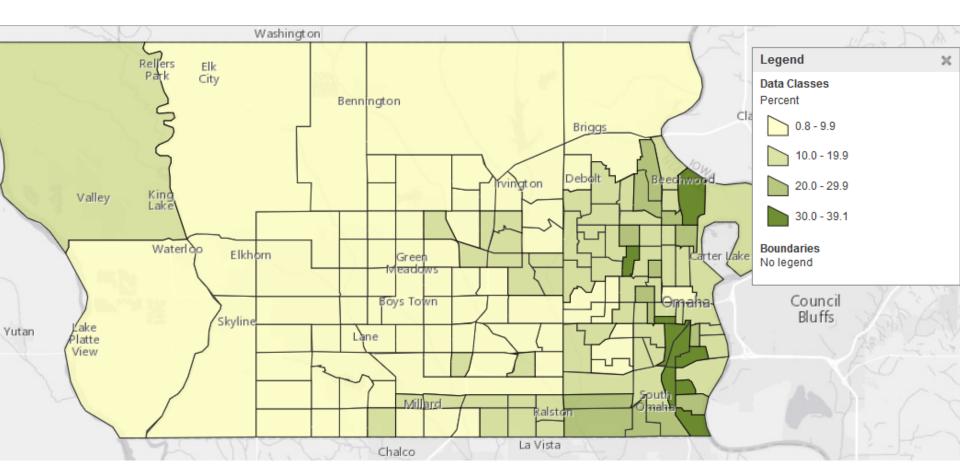


You can target programs where health insurance might be needed...

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SELECTED CHARACTERISTICS OF HEALTH INSURANCE COVERAGE IN THE UNITED STATES 2011-2015 American Community Survey 5-Year Estimates

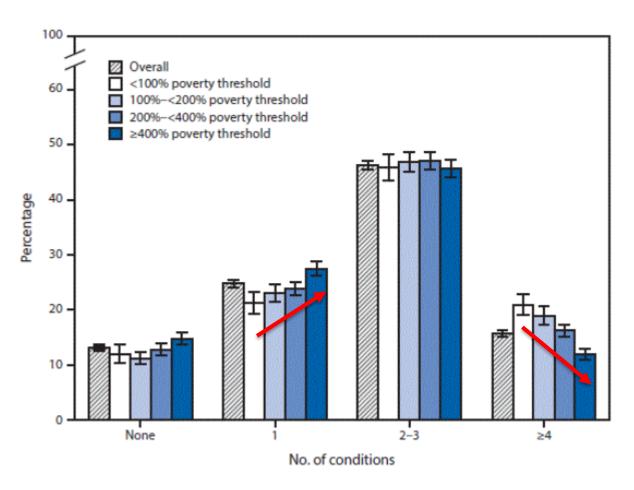
Thematic Map of Percent Uninsured; Estimate; Civilian noninstitutionalized population Geography: by Census Tract



Note: the correlation coefficient between the foreign born % and the uninsured % for the 156 Douglas County tracts in the 2011-15 ACS was 0.74 (highly correlated).

QuickStats: Age-Adjusted Percentage* of Adults Aged ≥65 Years,† by Number of 10 Selected Diagnosed Chronic Conditions§ and Poverty Status — National Health Interview Survey, 2013–2015

Weekly / February 24, 2017 / 66(7);197



^{*} With error bars indicating 95% confidence intervals.

"Those in the lowest income group were less likely to have none or only one of the chronic conditions compared with those in the highest income group."

"lowest income group also more likely to have 4 or more conditions than those in the highest income group (21% vs. 12%)"

Racial and Geographic Differences in Breastfeeding — United States, 2011-2015

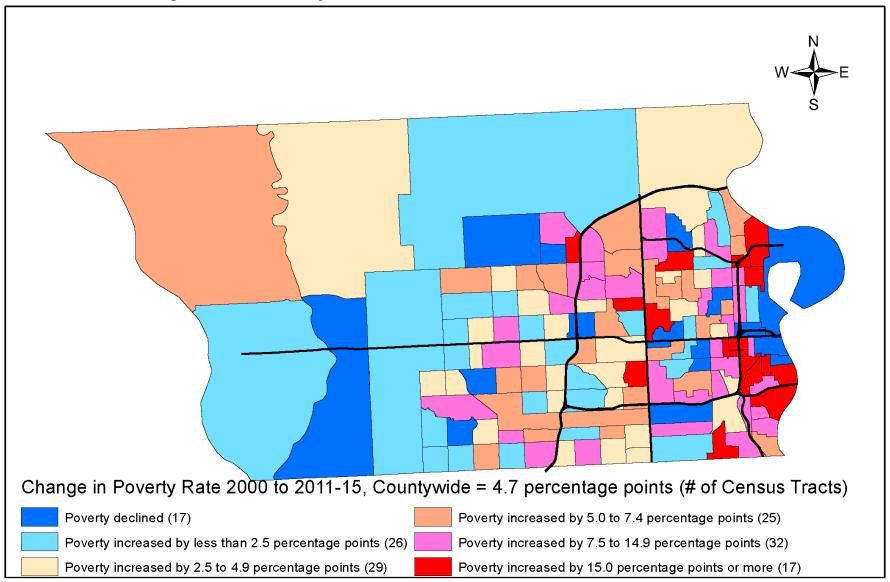
Weekly/July 14, 2017 / 66(27);723-727 https://www.cdc.gov/mmwr/volumes/66/wr/mm6627a3.htm

TABLE 1. National prevalence of breastfeeding initiation, exclusive breastfeeding through age 6 months, and duration of breastfeeding at age 12 months* among children aged 19–35 months, by selected demographic characteristics — National Immunization Survey, United States, 2011–2015†



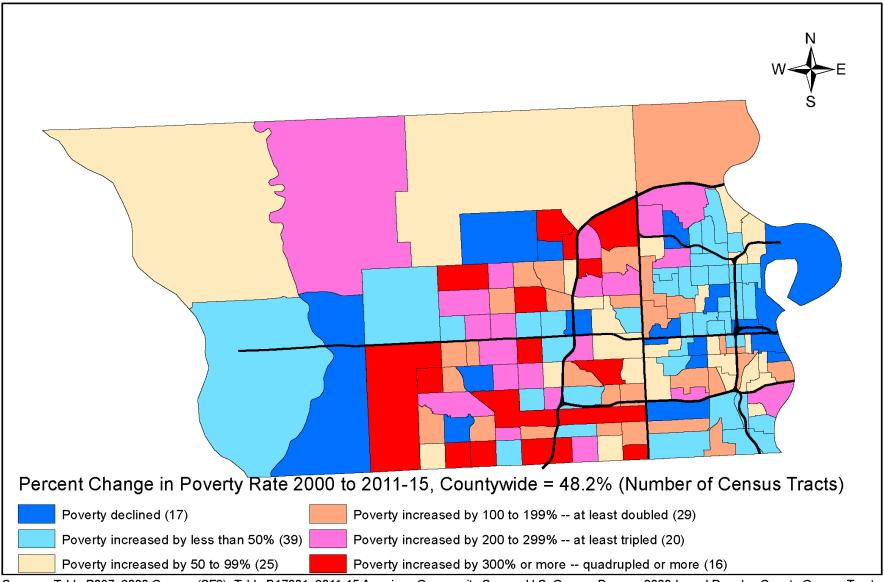
Characteristic	No. of respondents§	Initiated breastfeed CI)	ing % (95%	Breastfed exclusively through 6 months % (95% CI)	Breastfed at 12 months % (95% CI)				
Total	88,436-90,692	79.2 (78.7-79.7)		20.0 (19.5-20.5)	27.8 (27.2-28.4)				
Child's race/ethnicity ¹ ,**	Child's race/ethnicity",**								
White, non-Hispanic	49,868-51,359	81.5 (80.9-82.1)		22.5 (21.9-23.1)	30.8 (30.1-31.5)				
Black, non-Hispanic	9,091-9,255	64.3 (62.7-65.9)		14.0 (12.7-15.3)	17.1 (15.8-18.4)				
Hispanic	17,775-18,075	81.9 (80.8-83.0)		18.2 (17.0-19.4)	26.3 (24.9-27.7)				
% of poverty level ^{††}									
<100	22,840-23,232	70.7 (69.6-71.8)		14.7 (13.8-15.6)	20.3 (19.3-21.3)				
100-199	17,735-18,184	77.6 (76.5-78.7)		18.9 (17.9-19.9)	26.0 (24.8-27.2)				
200-399	22,579-23,193	84.9 (84.1-85.7)		23.9 (22.9-24.9)	33.1 (32.0-34.2)				
400-599	13,727-14,149	88.0 (87.1-88.9)		26.5 (25.1-27.9)	36.7 (35.2-38.2)				
≥600	11,555-11,934	90.1 (89.2-91.0)		25.8 (24.1-27.5)	36.8 (35.0-38.6)				
Recipient of WIC									
Yes	40,182-40,925	72.1 (71.3-72.9)		14.5 (13.8-15.2)	19.7 (18.9-20.5)				
No (but eligible)	6,265-6,461	81.9 (79.9-83.9)		27.6 (25.6-29.6)	37.9 (35.7-40.1)				
No (not eligible)	41,576-42,865	89.6 (89.1-90.1)		27.2 (26.4-28.0)	38.3 (37.4-39.2)				
Mother's education									
Less than high school diploma or GED	9,329-9,496	68.8 (67.2-70.4)		14.5 (13.1–15.9)	21.8 (20.2-23.4)				
High school diploma or GED	16,317-16,651	69.7 (68.5-70.9)		16.0 (15.0-17.0)	19.7 (18.6-20.8)				
Some college	23,230-23,809	80.5 (79.6-81.4)		17.8 (16.8-18.8)	23.4 (22.3-24.5)				
College graduate	39,560-40,736	91.1 (90.7-91.5)		27.7 (26.9-28.5)	40.3 (39.4-41.2)				

Change in Poverty Rate: 2000 to 2011-2015 Timeframe



Sources: Table P087, 2000 Census (SF3); Table B17001, 2011-15 American Community Survey, U.S. Census Bureau; 2000-based Douglas County Census Tracts Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: July 14, 2017

Percent Change in Poverty Rate: 2000 to 2011-2015 Timeframe



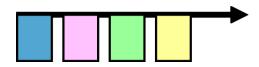
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POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES 2011-2015 American Community Survey 5-Year Estimates

		Omaha-Council Bluffs, NE-IA Metro Area											
		All fa	amilies			Married-cou	uple familie	8	Female	householder	, no husba	nd present	
	Т			ent below erty level Tota		Γotal	Percent below poverty level		Total			Percent below poverty level	
Subject	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	
Families	225,879	+/-1,406	8.6%	+/-0.3	170,632	+/-1,530	3.6%	+/-0.3	40,087	+/-1,203	27.9%	+/-1.3	
RACE AND HISPANIC OR LATINO ORIGIN		1				[[
Families with a householder who is													
White alone	197,285	+/-1,355	6.5%	+/-0.3	155,288	+/-1,476	2.9%	+/-0.3	29,594	+/-1,037		+/-1.4	
Black or African American alone	15,271	+/-518	26.2%	+/-2.3	6,474	+/-434	9.1%	+/-2.3	7,456	+/-403	42.0%	+/-3.6	
American Indian and Alaska Native alone	1,160	+/-181	29.8%	+/-7.6	717	+/-144	18.7%	+/-11.0	426	+/-117	49.1%	+/-11.3	
Asian alone	4,885	+/-280	14.7%	+/-2.8	4,002	+/-228	11.2%	+/-3.1	631	+/-165	39.6%	+/-11.8	
Native Hawaiian and Other Pacific Islander alone	98	+/-46	12.2%	+/-17.5	68	+/-38	0.0%	+/-33.9	27	+/-31	44.4%	+/-55.6	
Some other race alone	4,116	+/-364	24.7%	+/-5.1	2,223	+/-271	15.9%	+/-5.0	1,134	+/-242	40.7%	+/-11.1	
Two or more races	3,064	+/-310	15.9%	+/-4.2	1,860	+/-242	6.8%	+/-3.3	819	+/-162	32.2%	+/-10.9	
Hispanic or Latino origin (of any race)	16,527	+/-428	24.1%	+/-2.4	10,233	+/-500	15.2%	+/-2.2	3,977	+/-344	48.1%	+/-5.4	
White alone, not Hispanic or Latino	185,692	+/-1,293	5.4%	+/-0.3	147,825	+/-1,411	2.3%	+/-0.2	26,914	+/-962	20.4%	+/-1.4	
EDUCATIONAL ATTAINMENT OF HOUSEHOLDER													
Less than high school graduate	16,768	+/-708	29.2%	+/-2.5	10,093	+/-564	20.7%	+/-2.4	4,705	+/-427	48.8%	+/-5.1	
High school graduate (includes equivalency)	46,010	+/-1,202	10.9%	+/-1.0	32,434	+/-1,015	4.6%	+/-0.7	9,469	+/-649	31.7%	+/-3.2	
Some college, associate's degree	78,376	+/-1,387	9.3%	+/-0.7	55,592	+/-1,180	2.9%	+/-0.4	16,874	+/-741	29.6%	+/-2.4	
Bachelor's degree or higher	84,725	+/-1,390	2.6%	+/-0.3	72,513	+/-1,284	1.4%	+/-0.2	9,039	+/-541	10.0%	+/-1.9	
		,	í	•						1	1	1	

TENURE												
Owner occupied	171,172	+/-1,493	3.4%	+/-0.3	143,777	+/-1,531	2.1%	+/-0.2	18,630	+/-820	11.0%	+/-1.3
Renter Occupied	54,707	+/-1,216	24.9%	+/-1.0	26,855	+/-946	12.0%	+/-1.3	21,457	+/-833	42.6%	+/-2.0

CAROL GILBERT CITYMATCH



Social determinants in Maternal and Child Health

Carol Gilbert, MS Senior Health Data Analyst cgilbert@unmc.edu







Maternal and Child Health

 History: high infant mortality rate due primarily to infectious disease, associated with poverty

 Vital records system modified to better track infant deaths

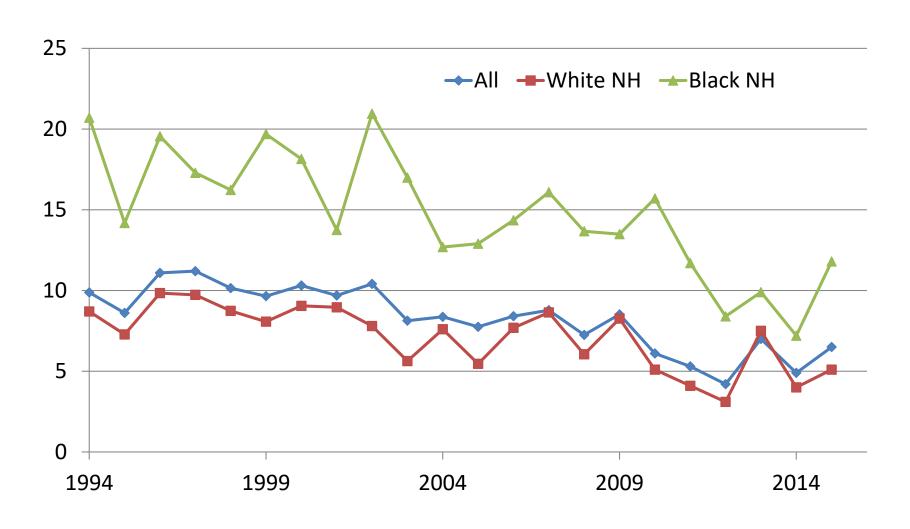


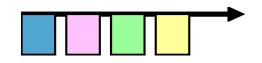
Maternal and Child Health



- MCH takes a population perspective. Everybody is born, everybody dies.
- Modern MCH focuses on disparities:
 - We value justice
 - Impact on overall

Douglas County Infant Mortality Rates







What causes infant death?

What causes the persistent gap between whites and African-American infant mortality rates?

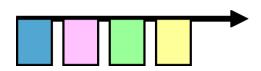


Why babies die in Douglas County Nebraska

Infant deaths from births during 2007-2013 (7 years)	White	Black
Douglas County, NE	deaths	deaths
#Congenital malformations, deformations and chromosomal		
abnormalities (Q00-Q99)	40	13
#Sudden infant death syndrome (R95)	23	16
#Disorders related to short gestation and low birth weight,		
not elsewhere classified (P07)	19	17
#Newborn affected by maternal complications of pregnancy		
(P01)	14	20

Mortality RATES allow comparisons

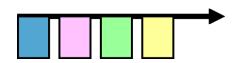
Infant deaths from births during 2007-2013 (7	White	Black
years) Douglas County, NE	deaths	deaths
Congenital malformations, deformations and		
chromosomal abnormalities (Q00-Q99)	1.1	1.5
Sudden infant death syndrome (R95)	0.6	1.8
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	0.5	1.9
Newborn affected by maternal complications of pregnancy (P01)	0.4	2.2
Total	2.6	7.4



Further analysis

- Perinatal Periods of Risk analysis showed that nearly half of **preventable** Black fetal and infant deaths were among those born at very low birth weight <3.3 pounds
- Further analysis shows that premature black babies were at least as likely to survive as premature white babies

■ In other words, nearly half of the Black/White disparity was due to extreme prematurity in the Black population.



Factors often associated with very preterm, birth, measured on birth certificate and PRAMS survey

- Early prenatal care
- Adequate time between births
- Previous preterm birth
- Overweight/obesity
- Diabetes
- Hypertension
- Smoking

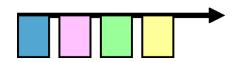
- Teen mom
- Twins/triplets etc
- Sexually transmitted infections
- Maternal educational attainment
- Maternal marital status
- Maternal stress

Population Attributable Risk Percent

	"Disease"	Not	All
Exposed	a	b	n_1
Unexposed	С	d	n ₂
All	a+c	b+d	n ₀

 $p_2=c/n_2$ (rate of disease in low risk group) $p_0=(a+c)/n_0$ (rate of disease in whole population)

Levin's PAF = $(p_0 - p_2)/p_0$



Risk factors for very low birth weight (VLBW) among Non-Hispanic Blacks in Douglas County

	% VLBW if YES	%VLBW if NO	PAR
Late entry into prenatal care	2.2%	2.4%	-4.2%
Teen birth vs all other	1.7%	2.8%	-4.2%
Diabetes	2.1%	2.7%	-1.1%
Tobacco use	3.2%	2.6%	2.8%
HS or less education	2.8%	2.6%	3.4%
Hypertension	8.1%	2.3%	5.0%
Pregnancy hypertension	6.5%	2.5%	7.0%
Unmarried	2.6%	2.2%	11.0%
Twins triplets etc	12.8%	2.0%	16.8%

Source: CDC Wonder 2011-2015 (rare factors used 2007-2015)

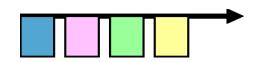
Factors with largest impact on very low birth weight PRAMS data are from 2008-2011, Douglas County estimates

			PAR among Black
Income below \$15,000 per year			
(PRAMS)	9%	63%	21%
Stress: separation or divorce			
(PRAMS)	3%	13%	10%



Interpretation of PAR: if we could reduce the risk of low income moms by to the same low risk as higher income moms, the very low birth weight rate would decrease by 21%.

What is the meaning of these factors of these social factors having a large impact?

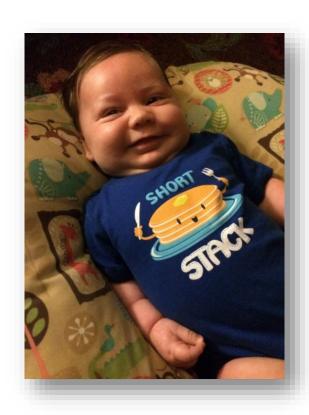


Census data can help us explore further, to determine more specifically what the high risk groups are coping with:

- -poverty,
- -employment,
- -educational attainment
- -health insurance

and it can be broken down

- -by neighborhood
- -by presence of children
- -by having given birth in the past year





TOM RAUNER NEBRASKA DEPARTMENT OF HEALTH AND HUMAN SERVICES



Health Access

- Safety Net Sites
- The Triple Aim
- Social Determinates of Health



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Making the "Triple Aim" Possible



- Well care replacing sick care
- Value replacing volume
- Community participation
- Individual participation
- Integrated health care participation
- Chronic health care management

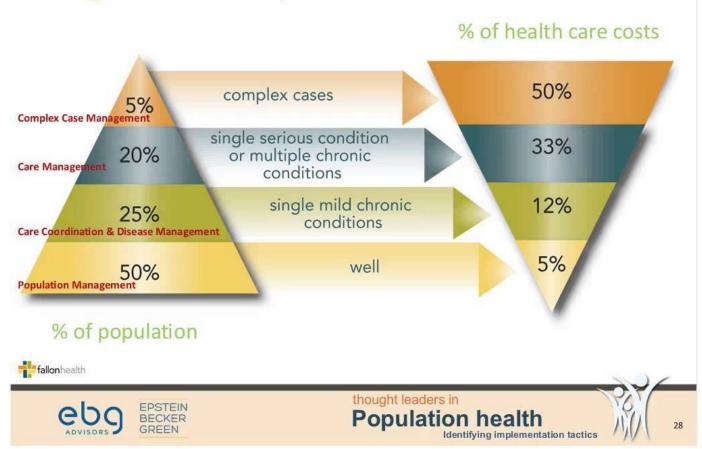


Program Pathways

Roughly 20%
Of the population

Accounts for 80%
Of health care costs

Reducing or delaying Chronic conditions is A very cost effective Measure, but it is not Immediate.





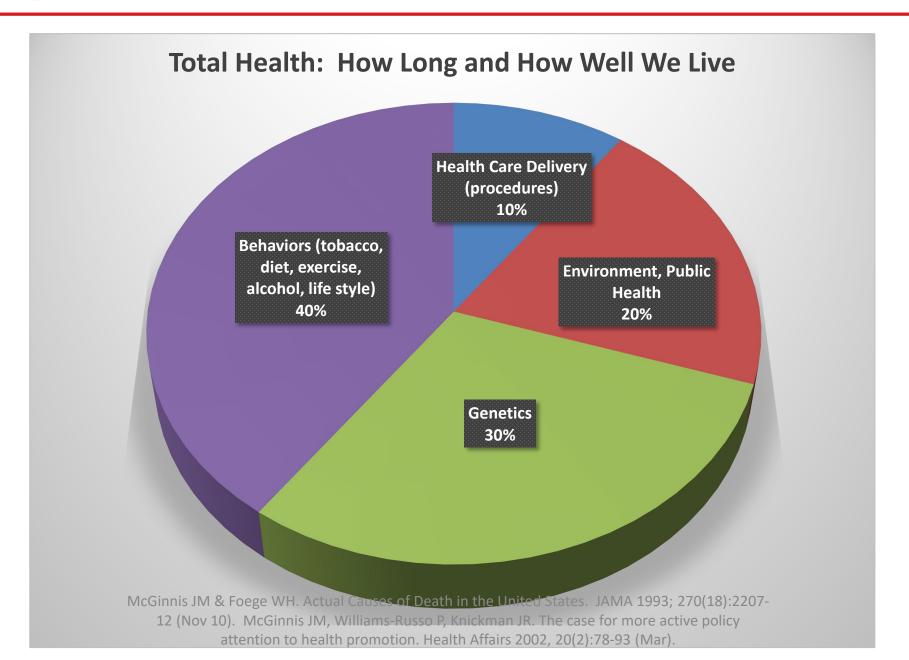
We can address 70% of factors affecting longevity and how well we live

- Livable communities opportunity and encouragement around health behaviors
- Stress reduction (food, clothing, shelter, health care access)
- Quality and affordable healthy food resources
- Balanced lifestyle and regular exercise

Simplify and easy understanding







ATHENA RAMOS UNMC

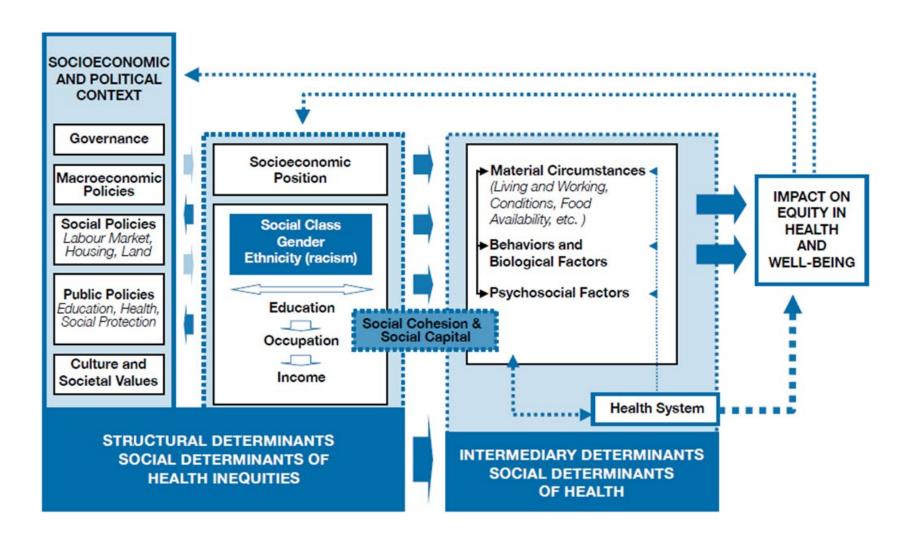
Definitions

World Health Organization (WHO):

"Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity."

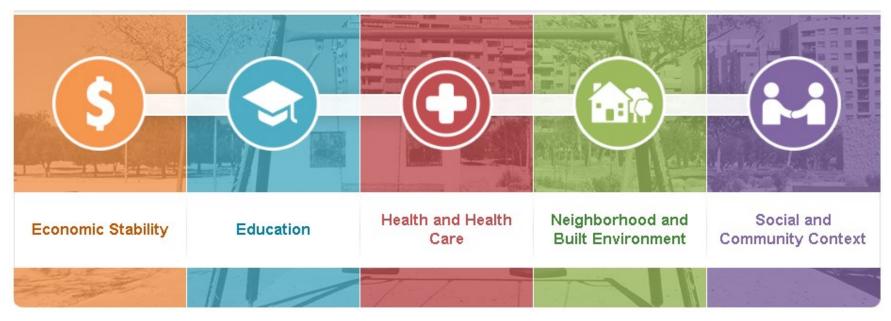
"The social determinants of health (SDOH) are the conditions in which people are born, grow, live, work and age. These circumstances are shaped by the distribution of money, power and resources at global, national and local levels."

Social Determinants of Health



Commission on Social Determinants of Health. (2010). A conceptual framework for action on the social determinants of health. Geneva: World Health Organization.

Healthy People 2020 Approach to Social Determinants of Health



Economic Stability

- Poverty
- Employment
- Food Insecurity
- Housing Instability

Education

- High School Graduation
- Enrollment in Higher Education
- Language & Literacy
- Early Childhood Education

Social and Community Context

- Social Cohesion
- Civic Participation
- Discrimination
- Incarceration

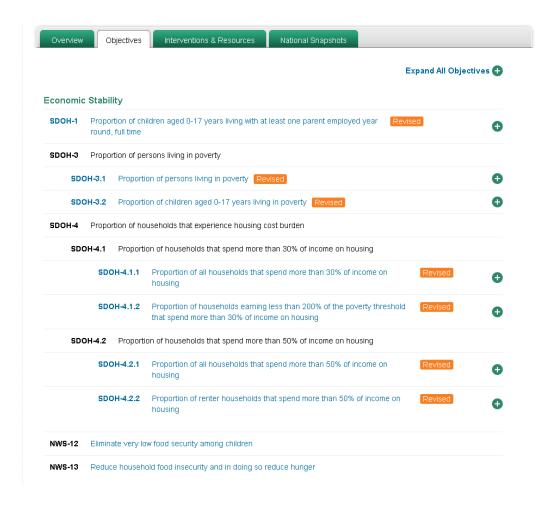
Health and Health Care

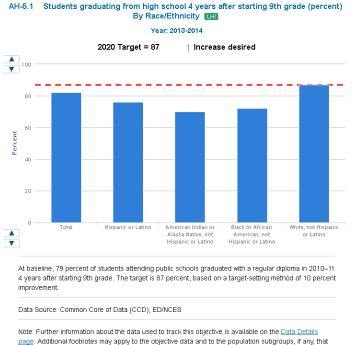
- Access to Health Care
- Access to Primary Care
- Health Literacy

Neighborhood and Built Environment

- Access to Foods that Support Healthy Eating Patterns
- Quality of Housing
- Crime and Violence
- Environmental Conditions

Social Determinants of Health





appear in this National Snapshot.

Data Can Improve Health Equity Efforts

We need to track data on the social determinants of health.

DATA CAN...

- Drive better decision-mak no t coopstate, and national levels
- Enhance ne unity efficacy, and accessibility of especial by community organizations, although organizations, and other stakeholders
- Be used to assess community progress and continued areas for improvement



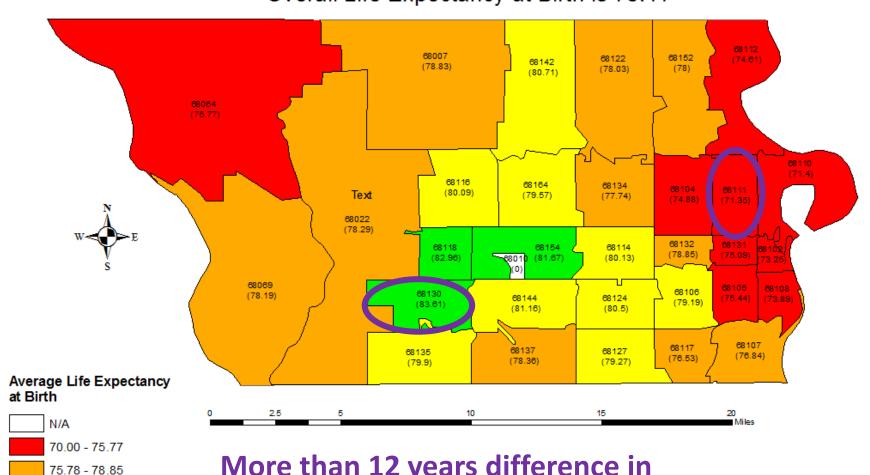
78.86 - 81.16

81.17 - 83.61

2011-2015 Average Life Expectancy at Birth By Zip Code

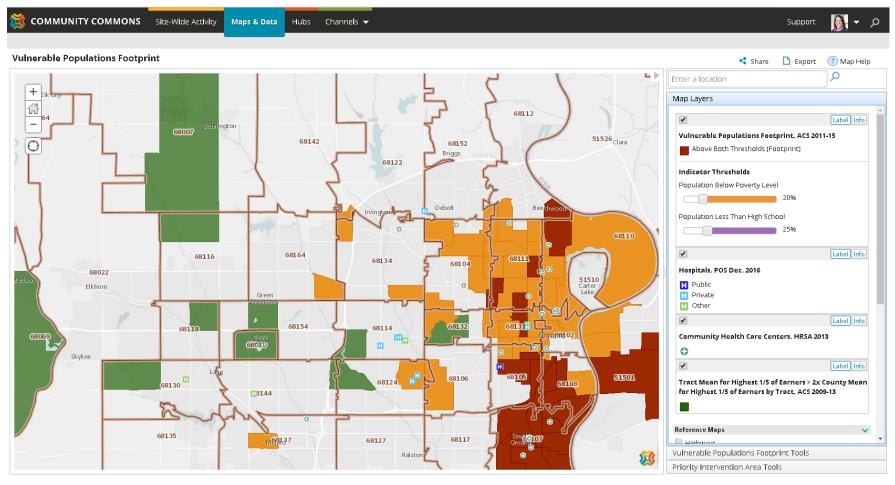
Douglas County, NE

Overall Life Expectancy at Birth is 78.11



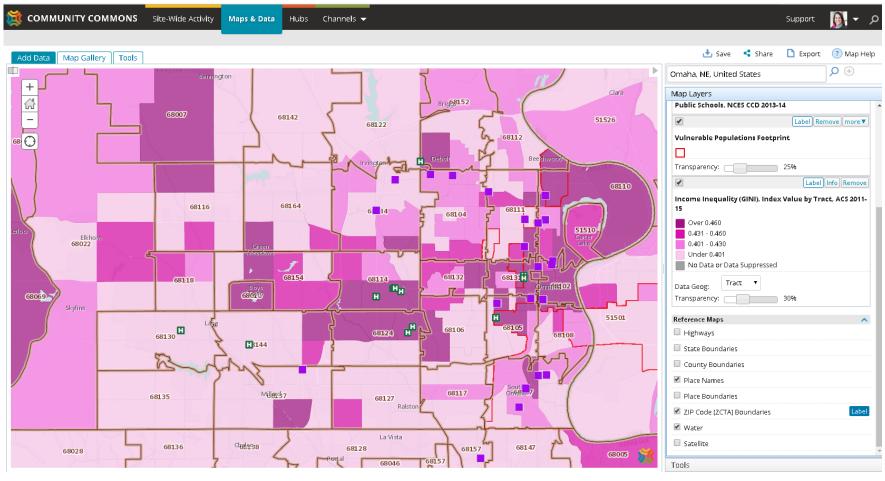
More than 12 years difference in life expectancy in Douglas County!

Community Commons Vulnerable Populations Footprint



www.communitycommons.org

Community Commons Income Inequality (GINI), ACS 2011-15



www.communitycommons.org

Douglas County Health Department Community Indicators



	VALUE	COMPARED TO:		· · · · · · · · · · · · · · · · · · ·	
Social Environment	/ Family Struc	ture			
Zip Code: 68107					
	VALUE	COMPARED TO:			
Single-Parent Households	41.0%	NE Zip Codes	U.S. Zip Codes	Douglas, NE County Value (33.4%)	Prior Value (38.4%)
		Trend			
Social Environment	/ Neighborho	od/Commu	mitse Atta		
				ichment	
Zip Code: 68107	VALUE	COMPARED TO:		ichment	
Zip Code: 68107 Linguistic Isolation				Prior Value	Trend
Zip Code: 68107	VALUE 18.9%	COMPARED TO:	Douglas, NE County Value	= Prior Value	Trend

	Ea	ch County v	s. Others (D	ouglas Cou	nty Sub-Cou	nty Areas vs.	Other Sub-I	County Area	is)	Metro	Metro Area vs. Benchmarks				
Access to Health Services	NE Omaha	SE Omaha	NW Omaha	SW Omaha	Western Douglas	Douglas County	Sarpy County	Cass County	Pott. County	Area	vs. IA	vs. NE	vs. US	vs. HP2020	TREND
% [Age 18-64] Lack Health Insurance	-	-	Ö	Ö	Ö	1	Ö	23	23	9.1	Ö	Ö	Ö	-	Ö
	21.6	19.6	4.5	2.6	6.1	10.8	5.3	8.2	6.5		12.7	17.6	15.1	0.0	12.1
% [Insured] Went Without Coverage in Past Year	-	2	2	Ö	Ö	23	2	Ö	23	6.0			Ö		23
	10.7	9.2	5.5	4.2	1.7	6.5	5.4	3.3	5.4				8.1		5.5
% Difficulty Accessing Healthcare in Past Year (Composite)		2	2	2	Ö		Ö	8	23	33.9			Ö		23
(42.2	39.3	34.2	34.2	25.2	36.4	26.4	31.4	33.4				39.9		33.4
% Inconvenient Hrs Prevented Dr Visit in Past Year	2	~	~	2	٥	~	~	~	~	13.9			~		~
	17.3	12.2	12.9	16.8	5.1	14.4	11.6	12.1	15.2				15.4		12.5
% Cost Prevented Getting Prescription in Past Year	-	2	2	2	٥	**			8	12.4					8
	20.4	14.2	12.6	11.5	9.3	14.1	7.0	6.0	13.8				15.8		14.3
% Cost Prevented Physician Visit in Past Year	•			2	Ö	2		~	~	12.3					
	22.0	9.7	8.9	13.6	6.4	13.1	8.4	12.4	14.3				18.2		14.5
% Difficulty Getting Appointment in Past Year		2	2	2	٥			23	23	12.2					23
	16.3	16.3	10.4	11.9	9.0	13.2	8.0	14.4	13.1				17.0		10.5
% Difficulty Finding Physician in Past Year	2	~	2	~	Ö	-	٥	23	23	9.3			23		
	13.0	11.3	9.0	10.1	2.3	10.3	6.1	11.0	8.6				11.0		6.6
% Cultural/Language Differences Prevented Med Care/Past Yr	23	2	23	2	٥	•			8	0.5					
	0.8	1.5	0.6	0.6	0.0	0.8	0.0	0.0	0.2						
% Transportation Hindered Dr Visit in Past Year					٥	***		8	8	5.3					~
	13.8	9.1	1.8	3.0	1.3	6.1	1.9	6.0	5.9				9.4		4.7
% [Sarpy/Cass/Pott.] Traveled 30+ Min for Medical Appt/Past Yr								*	***	14.6					
							7.8	39.7	19.0						19.6

http://www.douglascohealth.org/

Public Health Data Recommendations

- 1. Analyze mortality and morbidity data to show health disparities, identify causes of death attributable to social and economic factors, and prioritize places and populations for further public health surveillance, intervention, and evaluation.
- 2. Track morbidity and mortality data in priority places and populations over time to measure progress in affecting the SDOH indicators attributable to these health disparities.
- 3. Identify the Census tracts in your jurisdiction with a high prevalence of people living below 100% or 200% federal poverty level.
- 4. Collect, analyze, and interpret indicators including: income distribution, unemployment, housing cost burden, living wage, food insecurity, foregoing health care, violent crime, educational attainment, voter participation, social capital/social support, English language learners, air contamination, access to public transportation, alcohol access, and food access.
- 5. Track SDOH indicators over time to show improvement, decline, or stagnation in the totality of policies, programs, and procedures related to that indicator for a geography and population over time.
- 6. Use SDOH data to write competitive funding applications and mobilize community partnerships with organizations traditionally outside health and/or human services.

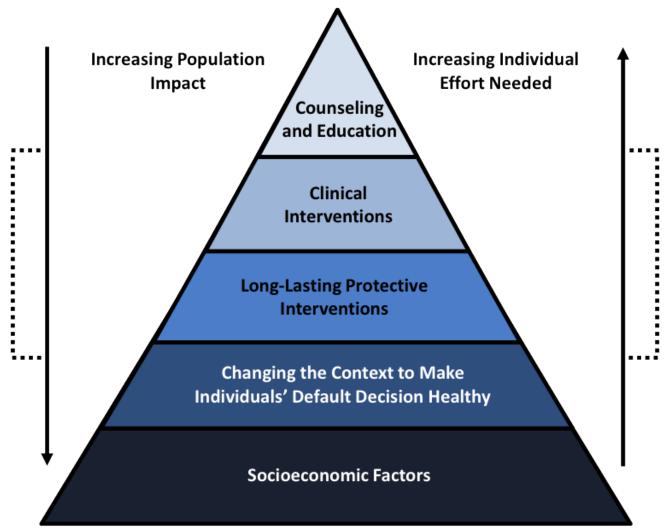
Practice Implications

- Engage community members, staff, and other stakeholders in developing your metrics/ indicators
- Develop standard protocols that incorporate SDOH data collection from clients/patients

USE DATA TO MAKE MEANINGFUL CHANGES TO FOSTER HEALTH AND SOCIAL EQUITY

Name:		Health Plan #:
	Your Current I	Life Situation (Shorter Form)
The inform	ation you provide will be entered int	us better understand you and your current situation. o your Kaiser Permanente medical record and will be user help you maintain or improve your health and well-being.
Live alon Live in a Live in a be if requ Live in a Tempora	e in my own home (house, apartmer household with other people residential facility where meals and l ested)	urrent living situation? (Select ONE only) nt, condo, trailer, etc.); may have a pet household help are routinely provided by paid staff (or cou th provides meals and 24-hour nursing care
☐ Other 2. Do you have	any concerns about your current	t living situation, like housing conditions, safety.
and costs? ☐ Yes → ☐ No 3. In the past 3 ☐ Food	☐ Ability to pay for housing or utiliti	ying for any of the following? (Select ALL that apply)
in money to be 5. Has lack of 8 living? (Sele	months, how often have you wor y more? □ Never □ S	
	nanaging finances, etc., do you ge sed	of daily living such as bathing, preparing meals, at the help that you need? could use a lot more help more help
7. In the last m overcome th	onth, how often have you felt diffi	iculties were piling up so high that you could not
☐ Food ☐ Housing ☐ Transpor ☐ Utilities (☐ Medical (☐ Dental se	tation heat, electricity, water, etc.) are, medicine, medical supplies ervices	ve help with at this time? (Seiecl ALL that apply) More help with activities of daily living Childcare/other child-related issues Debt/loan repayment Legal issues Employment Other I don't want help with any of these
	ered these questions?	help ☐ Family member, friend, or caregiver of member
KAISER PERM		v.11-10-16

Improving Public Health Initiatives



Frieden, T.R. (2010). A framework for public health action: The health impact pyramid. American Journal of Public Health, 100(4), 590–595.

Social Determinants of Health and Health Data Panel

28th Annual Nebraska Data Users Conference, 9:00-10:00 A.M., August 16, 2017

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Tom Rauner, NE Department of Health and Human Services

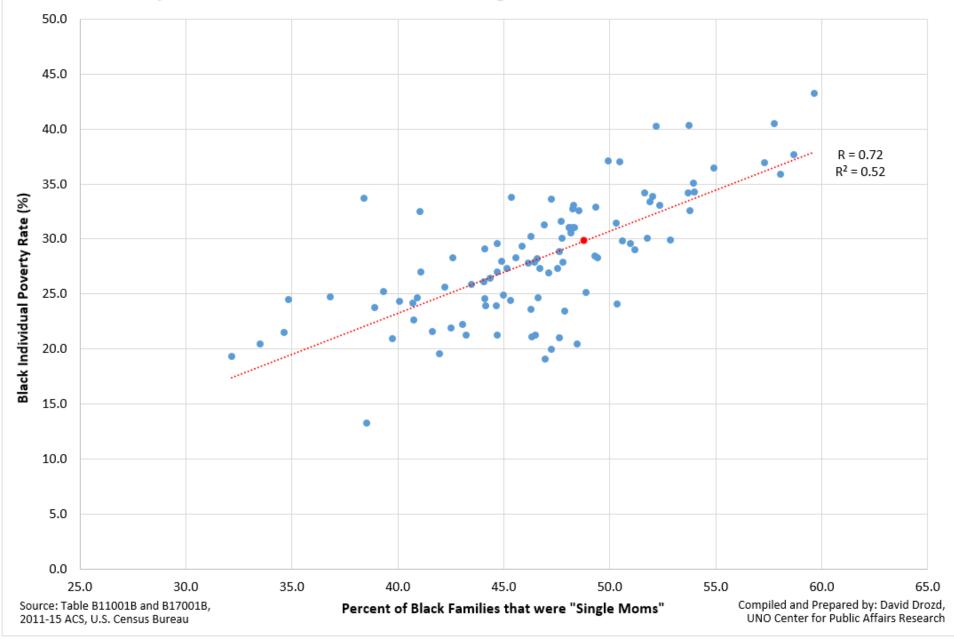
402-471-0148 <u>thomas.rauner@nebraska.gov</u>

Athena Ramos, UNMC

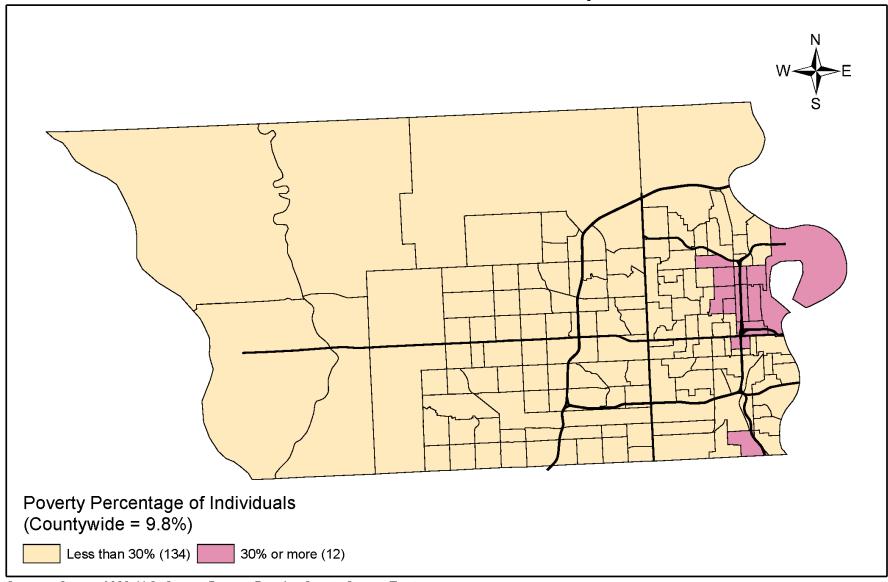
402-559-2095 aramos@unmc.edu

EXTRA SLIDES IF NEEDED FOR TIME

Scatterplot of Percentage of Black Families that were "Single Moms" versus Black Individual Poverty Rates in the 100 metro areas with the Highest Number of Black Households: 2011-15



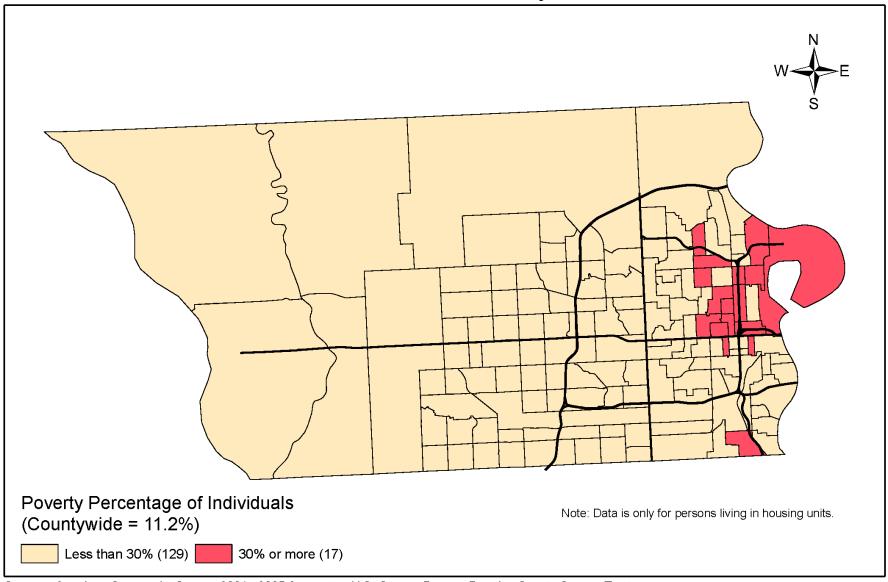
Percent of Persons in Poverty: 2000



Sources: Census 2000, U.S. Census Bureau; Douglas County Census Tracts

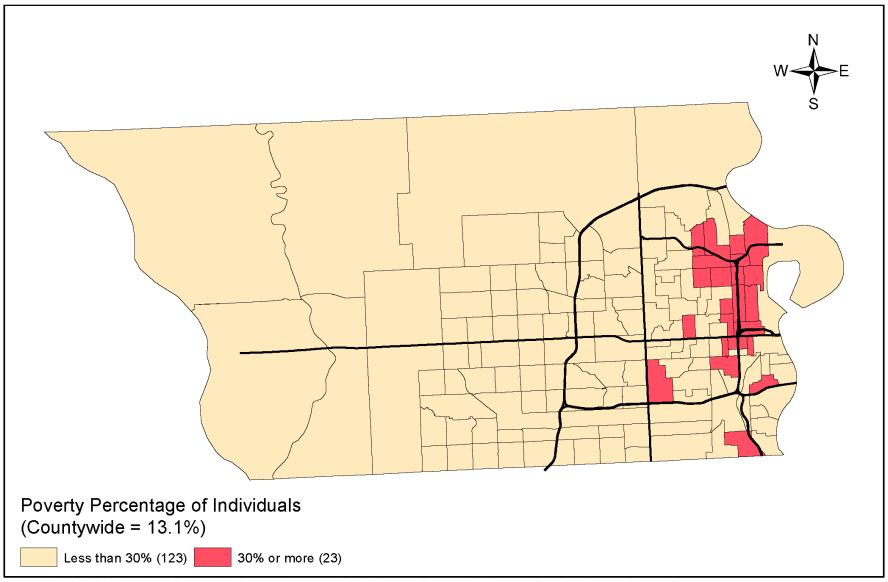
Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: May 22, 2007

Percent of Persons in Poverty: 2001 - 2005



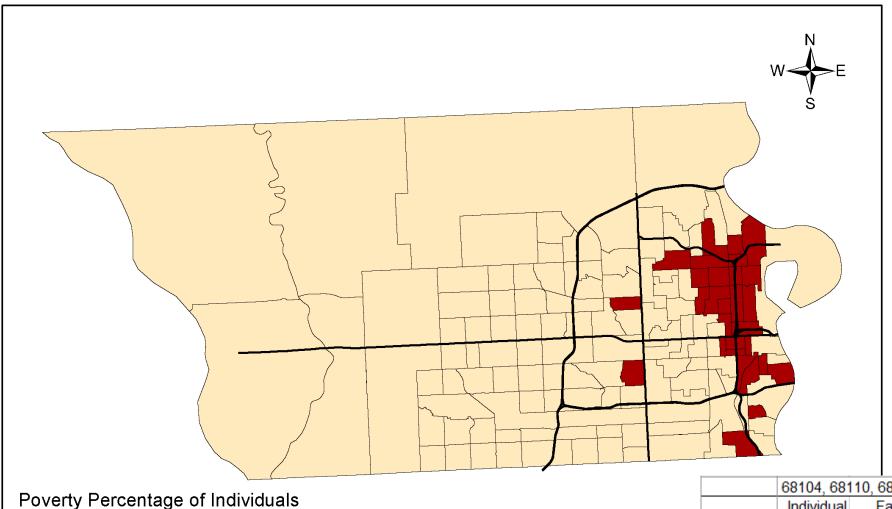
Sources: American Community Survey: 2001 - 2005 Aggregate, U.S. Census Bureau; Douglas County Census Tracts Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: May 22, 2007

Percent of Persons in Poverty: 2006 - 2010



Sources: 2006-2010 American Community Survey (aggregate), U.S. Census Bureau; 2000-based Douglas County Census Tracts *Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: February 2012*

Percent of Persons in Poverty: 2011 - 2015



Poverty Percentage of Individuals (Countywide = 14.6%)

Less than 30% (117) 30% or more (29)

Sources: 2011-2015 American Community Survey (aggregate), U.S. Census Bureau; 2000-based Douglas County Census Tracts Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: February 13, 2017

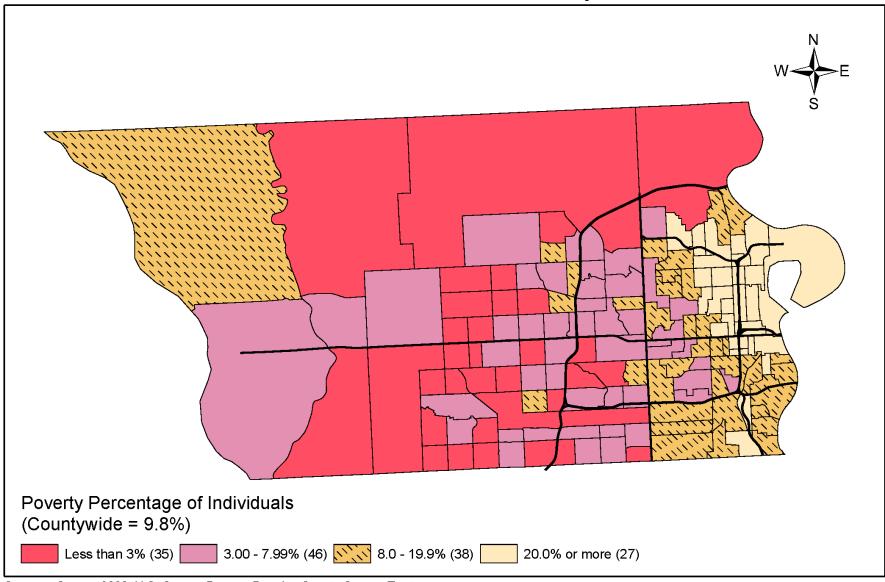
		68104, 68110, 68111				
		Individual	Family			
		Poverty	Poverty			
	Timeframe	Rate (%)	Rate (%)			
	2007-11	27.2%	22.6%			
s	2008-12	28.5%	22.7%			
	2009-13	29.8%	23.6%			
	2010-14	30.1%	24.4%			

29.8%

2011-15

24.6%

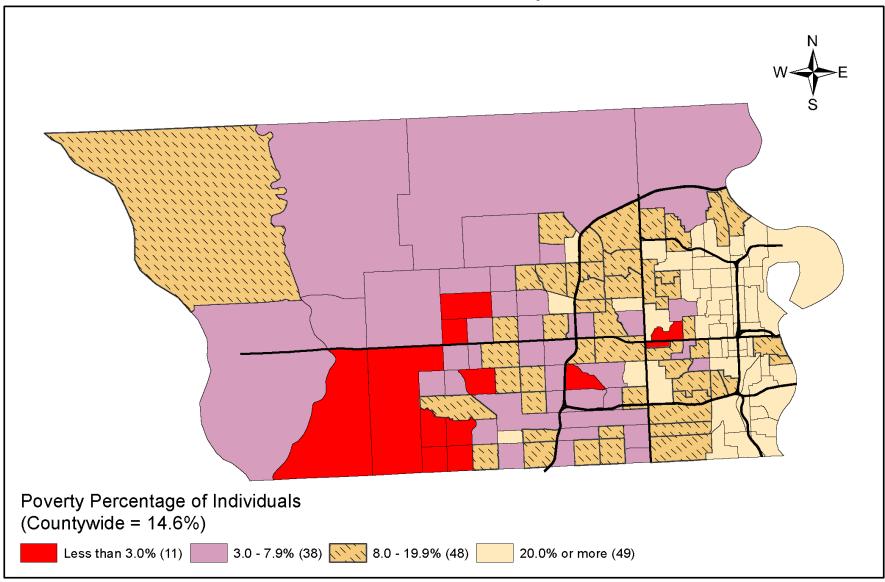
Percent of Persons in Poverty: 2000



Sources: Census 2000, U.S. Census Bureau; Douglas County Census Tracts

Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: April 11, 2007

Percent of Persons in Poverty: 2011 - 2015



Sources: 2011-2015 American Community Survey (aggregate), U.S. Census Bureau; 2000-based Douglas County Census Tracts *Prepared by: David Drozd, Center for Public Affairs Research, University of Nebraska at Omaha: February 13, 2017*

	2011-2015
Zip Codes	Life expectancy at birth
68111	71.3
68110	71.4
68102	73.2
68108	73.8
68112	74.6
68104	74.8
68131	75.0
68105	75.4
68064	75.7
68117	76.5
68107	76.8
68134	77.7
68152	78.0
68122	78.0
68069	78.1
68022	78.2
68137	78.3
68007	78.8
68132	78.8
68106	79.1
68127	79.2
68164	79.5
68135	79.9
68116	80.0
68114	80.1
68124	80.5
68142	80.7
68144	81.1
68154	81.6
68118	82.9
68130	83.6
*68010	