State-level spending on public health by all governmental agencies: Using Census of Government data to create a new finance dataset for the field

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de Beaumont Foundation

Acknowledgements

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The authors have nothing to disclose





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Overview

Motivation for this project

- Project aims
- Current estimates of public health spending

Data sources

- Expenditure data
- Re-classification of public health spending





Motivation and Aims

Refine existing public health spending estimates to more accurately reflect what the nation spends on public health

Utilize enhanced spending estimates to demonstrate public health value and effectiveness





Background

Estimating the value of public health spending is difficult

- Lack of consistent reporting and coding in public health activities and definitions
- No systematic dataset on how much in total we spend on public health
- Current public health spending estimates exclude nonhealth agencies that do some public health work (e.g., agriculture, environment, etc.)





2008 and 2011 State Public Health Agency Spending Estimates

(in billions)

Year	ASTHO*	TFAH**	Census
2011	\$26.5	\$10.4	\$55
2008	\$24	\$12	\$60
Notes	State health agency spending. This estimate does not include behavioral health or Medicaid	Does not include federal funds or some "non comparable" programs (e.g., behavioral health)	Comprises spending of all state agencies (not only health). Includes spending for state operations as well as state to local transfers \$39 (2008) \$36 (2011) for current operations and \$20 (2008) \$18 (2011) in state
	ociation of State and Territorial F est for America's Health	lealth Officials	to local transfers





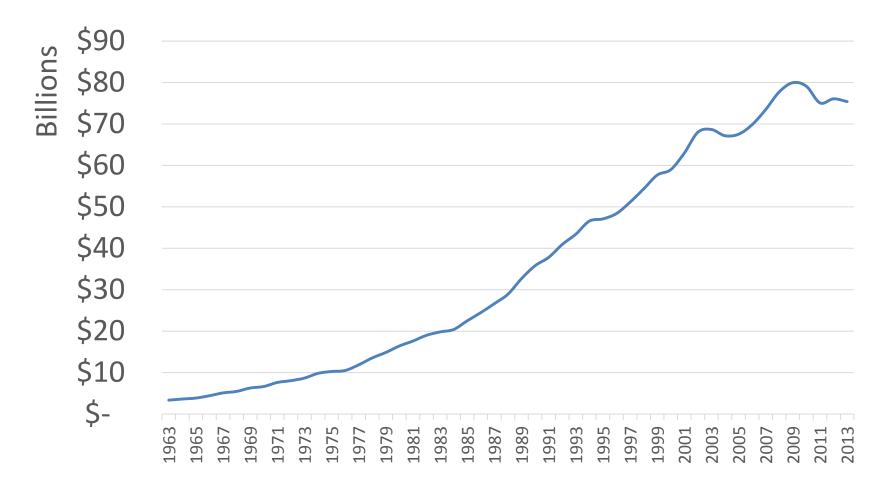
The nation's most widely used public health spending estimate

- The National Health Expenditure Accounts are widely used estimates constructed by CMS that estimate how much the United States spends on health
- CMS creates a "Public Health Activity" estimate that is widely cited in our field (<3% of all health spending)
 - But how is it created?
 - CMS uses Census' state financial estimates for non-hospital health spending (Functional codes 27 and 32)
- The central challenge:
 - Census definition of 'public health' is not the same as CMS'





Public Health Activity estimates (from NHEA)





The Data





Census of Governments

Census of Governments is a US Census Bureau program to collect county expenditure data every 5 years

Multiple categories, sub-categories of spending Examples: Hospital spending, Police, Sewerage, Solid Waste Management, Environmental, Education, Housing, Other health

Code 32 is "Current Operations – Health – Other" contains much public health spending, but also considerable spending on clinical/individual health services

Source: U.S. Census of Governments http://www.census.gov/govs/cog/





Individual records

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12	010000000	2011	Ε	32	PUBLIC HEALT	TH	HEALTH-GENERAL FUI	ND	DISEASE CONTROL		PUBLIC HEALTH SERVICES	TERMINATION COST, ANNUAL LEAVE	72		72000
13	010000000	2011	Е	32	PUBLIC HEALT	TH	HEALTH-GENERAL FUI	ND	DISEASE CONTROL		PUBLIC HEALTH SERVICES	SICK LEAVE	133	3	133000

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TERMINATION COSTS, SICK LEAVE

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GROUP HEALTH INSURANCE

GROUP HEALTH INSURANCE

TERMINATION COSTS, SICK LEAVE

TERMINATION COST, ANNUAL LEAVE

STATE & FED-TAXES/LICENSES

LONGEVITY ALLOWANCES

LEGAL- PROFESSIONAL

OFFICE OPERATION

SALARIES, REGULAR

SICK LEAVE

PRINTNG/REPRODUCTN/PHOTO EQUIP

TRAIN/REG-INDIVIDUAL/GOVERNMT

COMPENSATORY LEAVE

ANNUAL LEAVE

ASSOCIATION DUES

OFFICE OPERATION

ANNUAL LEAVE

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JURY DUTY

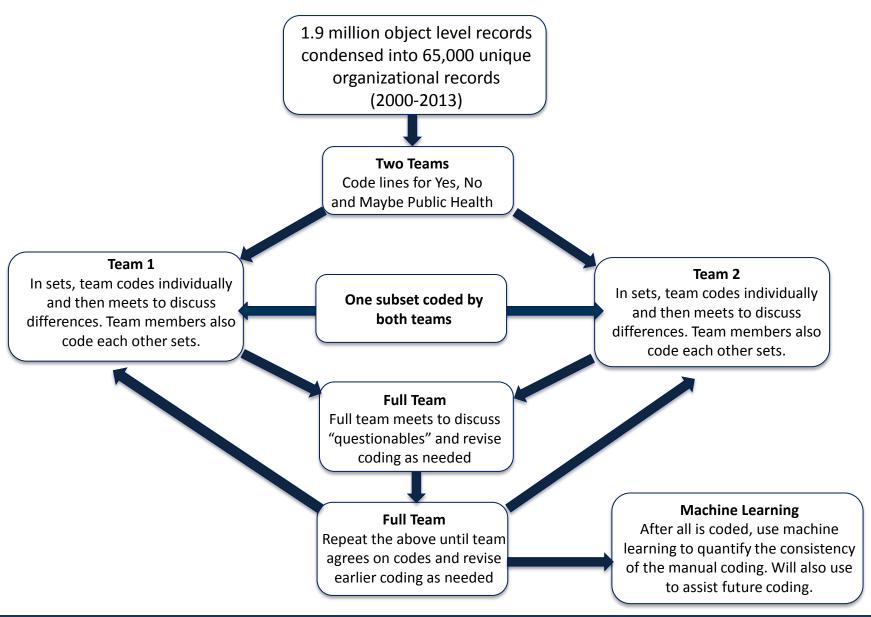
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10	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	FICA	218
11	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	SALARIES, REGULAR	2448
12	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	TERMINATION COST, ANNUAL LEAVE	72
13	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	SICK LEAVE	133
14	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	LONGEVITY ALLOWANCES	35

HEALTH-GENERAL FUND DISEASE CONTROL

HEALTH-GENERAL FUND COUNTY OPERATIONS

Manual inter-rater Coding Process





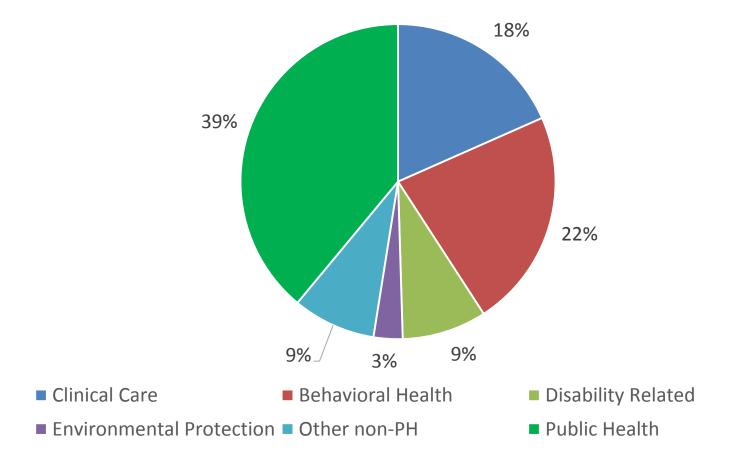


Results



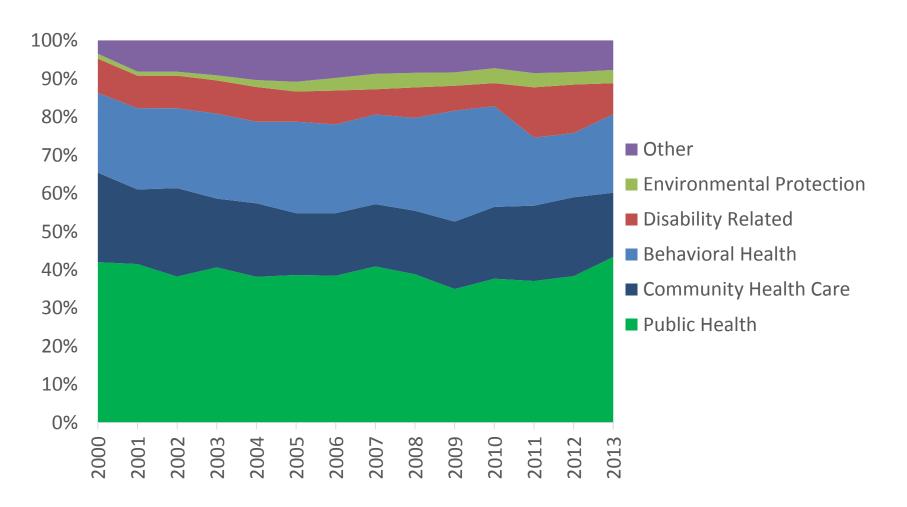


Types of state spending included in the Census *32 estimate (2000-2013)



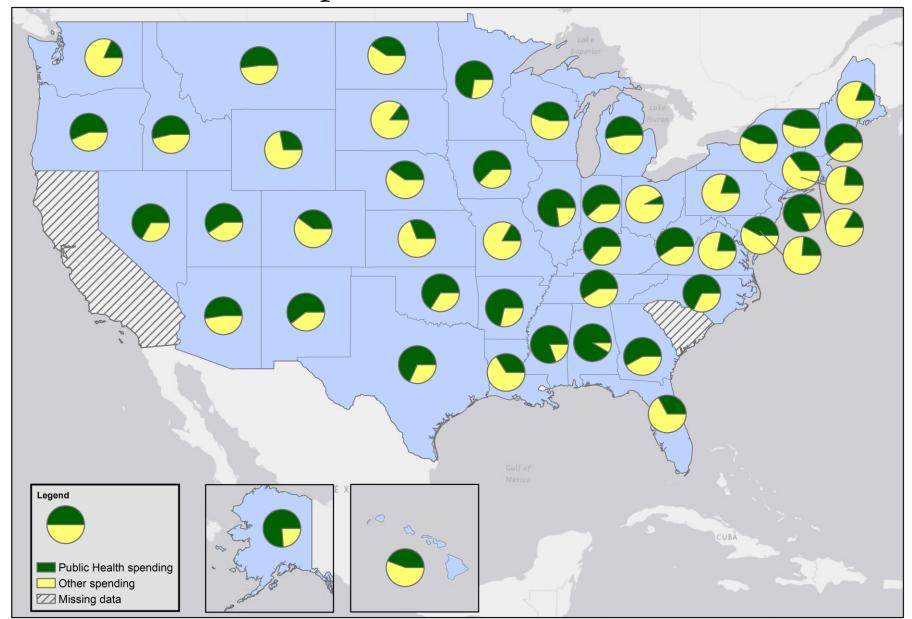


Types of state spending included in the Census Public Health Activity estimate (2000-2013)

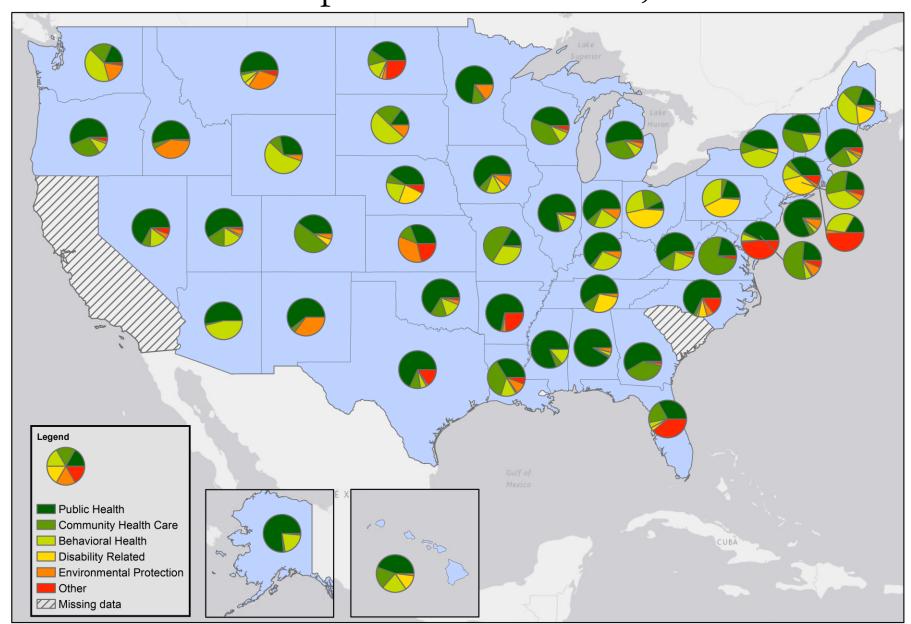




Public spending on public health vs non-hospital health services, 2013

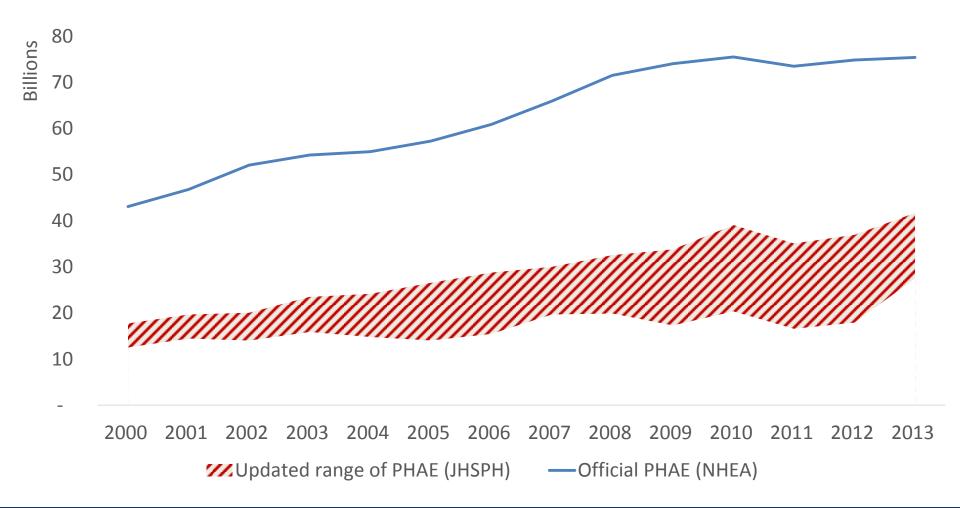


Public spending on public health vs non-hospital health services, 2013



Revised NHEA estimates

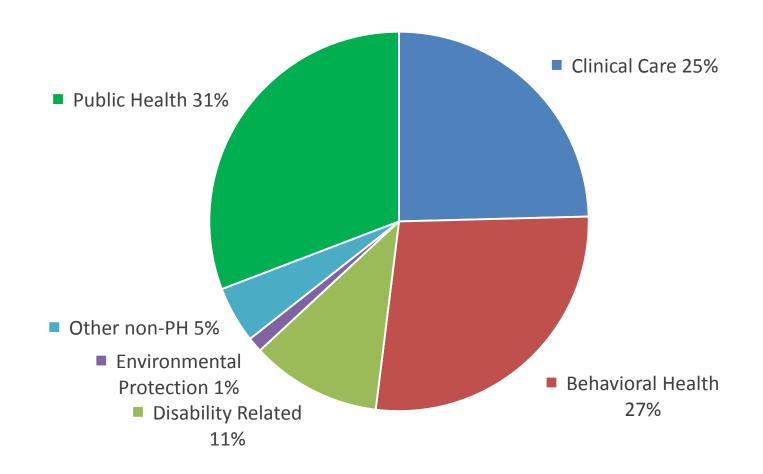
CMS Public Health activity estimate







State to local transfers 2000-2013, by activity type



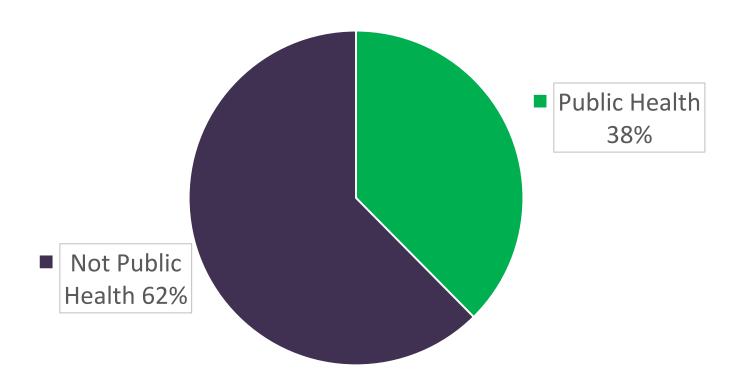


Spending by the Foundational Public Health Services



Spending by Foundational Public Health Services

State-level spending, *32 2000-2012





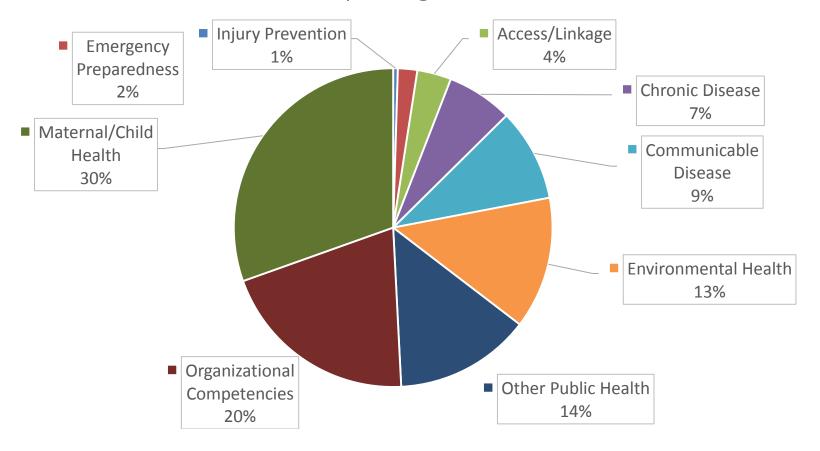
Spending by Foundational Public Health Services

State-level spending, *32 2000-2012 Communicable Disease **Emergency** ■ Chronic Disease 3% 4% Access/Linkage 1% Preparedness 1% ■ Injury Prevention 0% **Environmental Health** 5% Other Public Health 5% Organizational Competencies 8% ■ Not Public Health 62% ■ Maternal/Child Health 11%



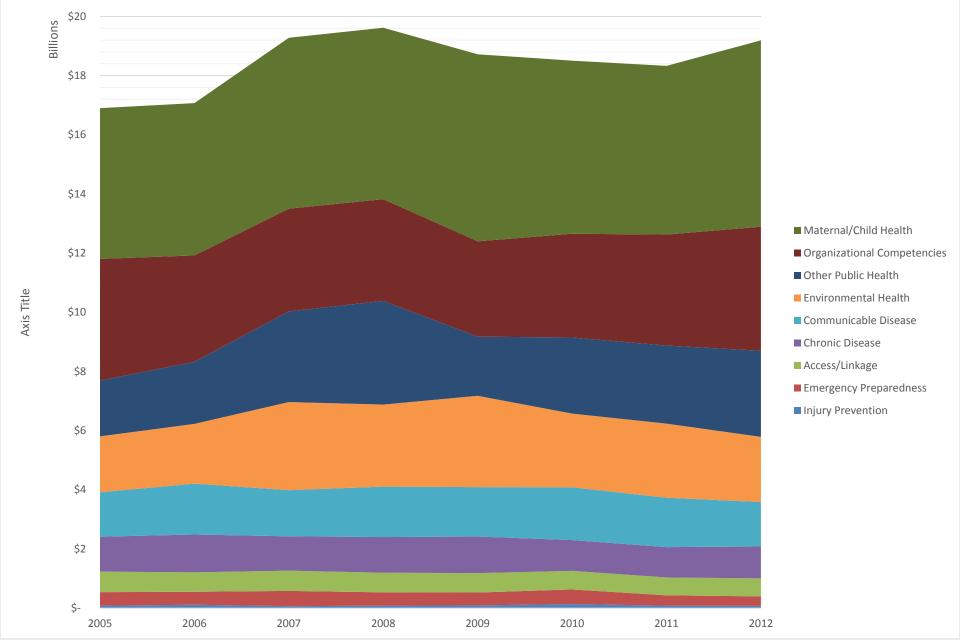
Spending by Foundational Public Health Services (excl. Non-PH)

State-level spending, *32 2000-2012





State-level spending on *32 activities, by FPHS, 2005-2012







An aside

- New dataset for the field to use and research
 - Coming soon!

 Who wants to be a beta tester? See JP after the roundtable



Individual records

▼ LVL1 DESC

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4	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	FAMILY HEALTH SERVICES	PUBLIC HEALTH SERVICES	TRAIN/REG-INDIVIDUAL/GOVERNMT	1	1000
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7	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	FAMILY HEALTH SERVICES	PUBLIC HEALTH SERVICES	MEDICAL SERVICES-PROFESSIONAL	282	282000
8	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	FAMILY HEALTH SERVICES	PUBLIC HEALTH SERVICES	ADVERTISING-PROFESSIONAL	15	15000
9	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	BOOKS, SUBSCRIPTIONS & PERIODI	1	1000
10	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	FICA	218	218000
11	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	SALARIES, REGULAR	2448	2448000
12	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	TERMINATION COST, ANNUAL LEAVE	72	72000

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	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	TERMINATION COST, ANNUAL LEAVE	72
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▼ LVL3 DESC

17	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	ANNUAL LEAVE	231	231000
16	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	COMPENSATORY LEAVE	2	2000
15	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	TERMINATION COSTS, SICK LEAVE	63	63000
14	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	LONGEVITY ALLOWANCES	35	35000
13	010000000	2011	Ε	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	SICK LEAVE	133	133000
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17	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	ANNUAL LEAVE	231	231000
18	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	JURY DUTY	2	2000
19	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	ASSOCIATION DUES	11	11000
20	010000000	2011	Е	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	MEDICAL	4820	4820000

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19	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	ASSOCIATION DUES	11	11000
20	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	MEDICAL	4820	4820000
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24	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	GROUP HEALTH INSURANCE	549	549000
25	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	DISEASE CONTROL	PUBLIC HEALTH SERVICES	TRAIN/REG-INDIVIDUAL/GOVERNMT	2	2000
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28	010000000	2011	E	32	PUBLIC HEALTH	HEALTH-GENERAL FUND	COUNTY OPERATIONS	PUBLIC HEALTH SERVICES	FICA	902	902000
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PUBLIC HEALTH SERVICES

HEALTH-GENERAL FUND COUNTY OPERATIONS

Implications

- Many governmental partners are working in public health
- Implications for national estimates of public health spending
 - Reduction in NHEA's Public Health Activity estimate?
 - Local spending breakouts probably look similar
 - Greater ability to gauge value of PH spending with more precise estimates





Thank you

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