Introduction to the Public Health Uniform National Data System (PHUND\$)

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The National Connection for Local Public Health

Objectives

- Discuss value of assessing financial condition
- Introduce concepts of ratio and trend analysis
- Examples of use of ratios and trend analysis in local government
- **Provide overview of PHUND\$**





What is Financial Condition – encompasses 4 types of solvency

- Cash solvency
 - Govt. or organization's capacity to generate cash to pay its bills
- Budgetary solvency
 - Ability to generate sufficient revenues during budgetary period to meet expenditures and not incur deficits
- Long run solvency
 - Long run balance between revenues and costs
 - Ability to pay late obligations, e.g. liabilities such as payment accrued employee leave
- Service level solvency
 - Ability to provide level and quality of services needed for health and welfare of community





Address concerns of those in the following conditions

- Under strain of few identifiable problems and need a broader perspective
- Sense of emerging problems but difficulty pinpointing them
- In good financial condition but need systematic way to monitor changes & anticipate problems

From Financial Indictors for Local Government, Sanford Groves, et al., 1981





Financial risk must be routinely mitigated. Waiting until you are in the eye of the storm is <u>TOO</u> late.

In the News

Health Dept. Cutting Expansive Primary Care Program (In the eye of storm w/no mitigation of risk)

XXXX said the health department has come to a critical point financially. He has worked at the Health Department for 23 years, spending the past three years as assistant director.

"We don't have the resources to carry the number of uninsured patients we have," he said. "We have redirected those patients to other safety-net agencies in the area." Over a thousand patients of the health department began getting notices of cancellation in mid-October, but officials say the problems started long before.

- Use of financial ratios and trend analysis would detect such problems
 - Yearly decreases in previously reliable funding streams, i.e. Medicaid, State Funding for Primary Care, Patient Fees
 - Expenditures exceeding revenues, reliance on general (trust) fund
 - Increases in AR and write offs
- Health Dept. PR nightmare viewed as unable to financially manage, loss of community trust





Financial Condition & Risk Mitigation

- Service level INSOLVENCY for this agency
- Cash INSOLVENCY using general fund and other budgeted program dollars to cover one program's deficits
- Needed ongoing assessment of financial condition and risk mitigation – prevention and preparedness
 - •Promotes management practices where information is turned into knowledge that can be used to anticipate and respond to unexpected events





Questions from Current and Potential Funding Stakeholders:

- What are major sources of revenue?
- What is the trend in these revenue sources? Up, down, up and down, by what %?
- What is the relationship in the last FY s between agency total revenues and total expenditures?
- What liabilities exist, e.g. leave liability? Pension liabilities?
- Days of revenue in Accounts Receivables? Percent written off?
- How many programs are self sufficient, i.e. allocated/earned revenues >= expenditures?
- Part of Mission/Community Priorities?





What is Ratio and Trend Analysis?

- Financial ratios
 - Calculated from organization's financial records and relevant demographic data sets
 - Calculated using a numerator and denominator, looks at relationship between 2 financial indicators, e.g. revenues and expenditures
 - Examples:
 - % of different sources of revenues/total revenues
 - operating surplus or deficit (total revenues total expenditures)
 - % of total budgeted revenues received
 - Trend Analysis
 - Comparisons are made with prior budgetary periods (trend analysis) and with other similar organizations (benchmarking)





Categories of Financial Indicators

Classified according to the information they provide: Revenue Growth Flexibility Diversity Dependability Expenditures Growth **Priorities** Effectiveness Productivity Mission Community needs Financial Alignment w/Mission Community Population Poverty Levels Growth Age





Examples of Revenue Indicators

Revenues per Capita

Budgeted Revenues

Sources of Revenues

Federal	Medicare
State	Grant
Local	Fees
Other	Dedicated Property Tax





Financial Indicators: Expenditures

- Expenditures per capita
- Employees per 1,000 county population
- Fringe benefits as % of total salaries and wages
- Salaries & wages as % of total expenditures
- Administrative expenditures as % of total expenditures
- Chronic disease program expenditures as % of total expenditures
- Public health preparedness expenditures as % of total expenditures





What is PHUND\$?

- Overview
- History
- Current status
- Future plans
- Features
- Value to local health departments





Overview of PHUND\$

- Web-based public health financial data collection and analysis portal hosted by NACCHO
- Provides LHDs with timely, reliable and uniform data to support assessment and decision-making
- LHDs enter financial and demographic data, and PHUND\$ generates:
 - Ratio and trend analysis
 - Dashboard
 - Benchmarking against peer agencies
 - Analysis of program financial performance





History of PHUND\$

- **2006 2012**
 - Development of ratio & trend analysis tool (precursor spreadsheet to the web-based portal)
 - Demonstrations and testing of tool in: Florida, Ohio, North Carolina, Kansas, West Virginia, and Kentucky
 - Development of PHUND\$ web-based portal
- October November 2012
 - Beta test of the PHUND\$ web-based portal
- January 2013
 - Launch of PHUND\$ web-based portal





Current Status of PHUND\$

- 239 Users: LHDs from 39 states
- Ongoing activities:
 - Technical assistance
 - User conference calls
 - Overview presentations
 - State-wide trainings, demonstrations, workshops
 - PHUND\$ database audit





Future Plans for PHUND\$

- PHUND\$ 2.0:
 - Updates based on user feedback
 - Revisions to data fields based on usage
 - State upload feature
- Development of ratio standards specific to public health agencies





Features of PHUND\$

- Ratio and Trend Analysis
 - Use to identify areas of risk
 - Control cost and expenditures
 - Monitor collections and billings

Program Sustainability (Surplus/Deficit Analysis)

- Use to assess program performance
- Identify deficit drivers
- Identify programs needing QI or elimination
- Rncourages review of ROI





Features of PHUND\$

Dashboard

- Use for national comparisons
- Realign expenditures to mission
- Analyze agency reserves
- Support for funding requests

Benchmarking

- Use for peer comparisons
- Expenditures and cost control
- Promotion of revenue generation and diversification
- Support funding request
- Policy analysis and development





Local Governments and Financial Ratios and Trend Analsysis (*Financial Trends Monitoring System FTMS*)



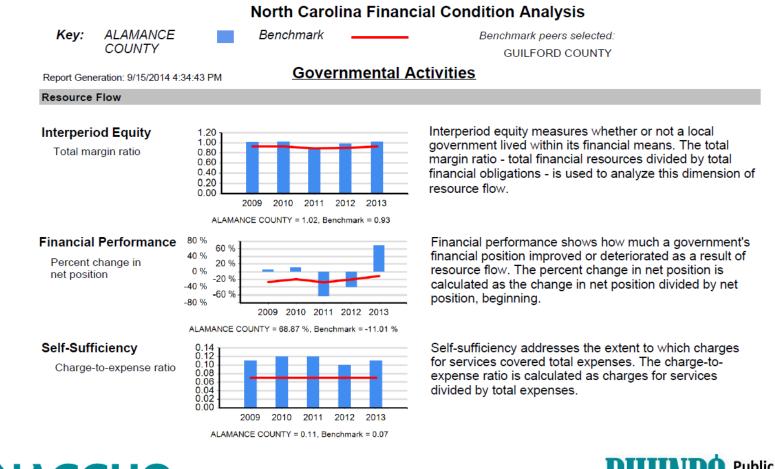


NASCIO



NASCIO Collaboration Series

Website: https://www.nctreasurer.com/slg/Pages/Fiscal-Analysis-Tool.aspx



Uniform National





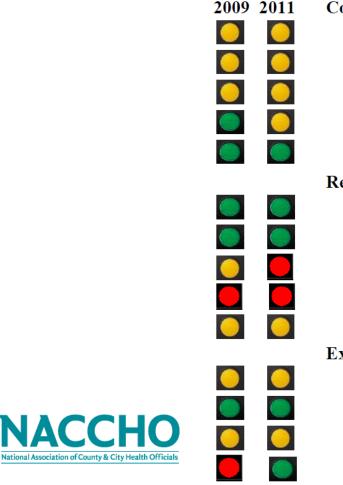
Green – the trend is favorable. The indicator meets any policy or performance measure set by the City.



Yellow – the trend is uncertain. The indicator should be watched carefully because it may move in a direction that could have a negative impact on the City's financial health.



Red – the warning trend has been observed. The indicator does not meet the policy or performance measure set by the City. More information should be gathered and corrective action should be taken.



Community Indicators

- Population
- Personal Income Per Capita
- Employment Base
- Real Property Value
- Residential Development

Revenue Indicators

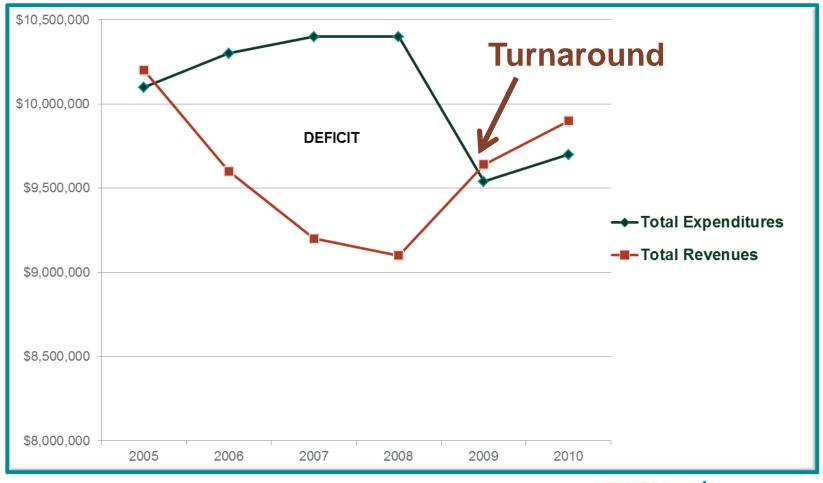
- Revenue Per Capita
- Property Tax Revenue
- Uncollected Property Taxes
- Sales Tax Revenue
- Intergovernmental Operating Revenue

Expenditure Indicators

- Expenditures Per Capita
- Employees Per Capita
- Fringe Benefits
- Capital Outlay (Change in Methodology)



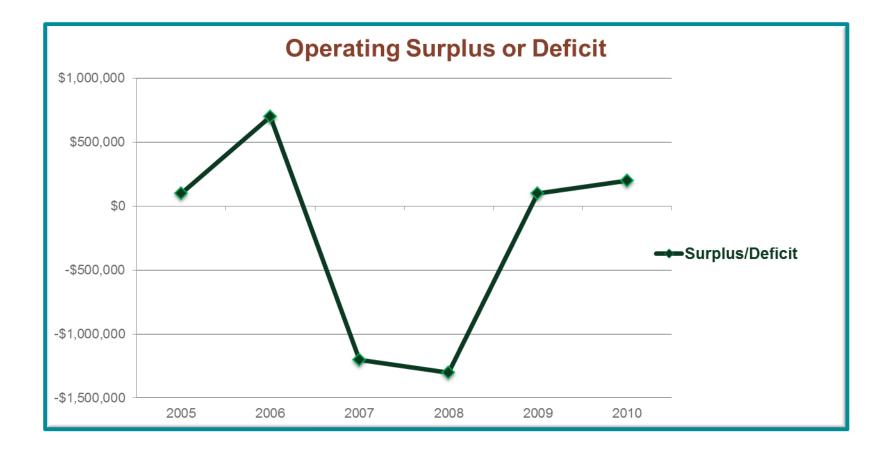
Revenue and Expenditure Trends - Turnaround







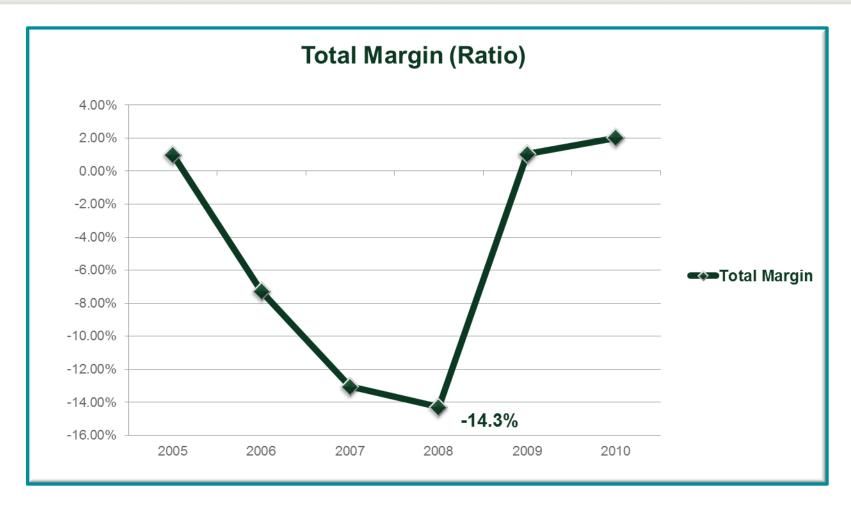
Revenue and Expenditure Trends – Operating Surplus or Deficit







Revenue and Expenditure Trends – Total Margin (Ratio)

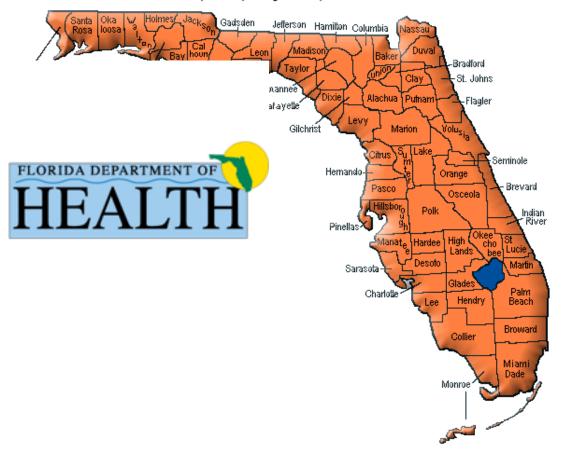






Florida - State-wide Pilot of PHUND\$-like Tool

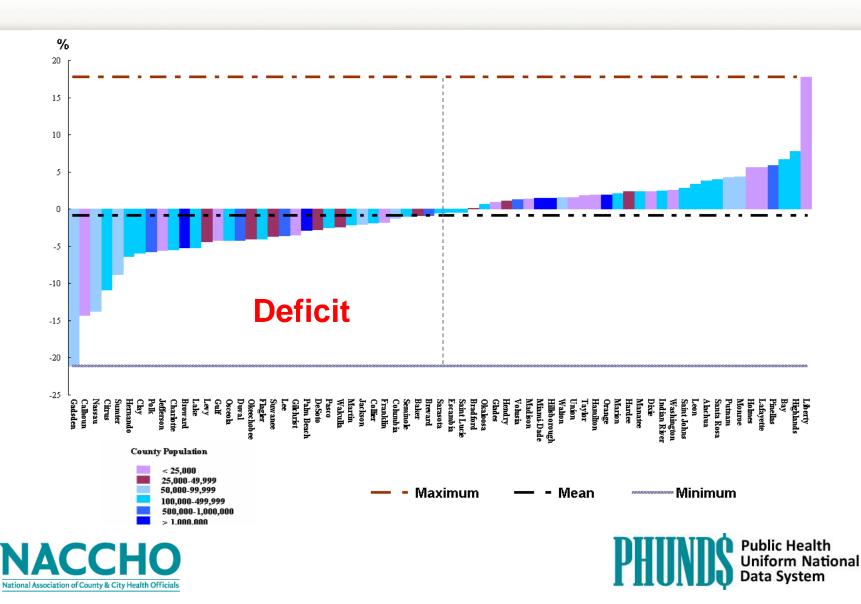
Click on a participating county to view its menu



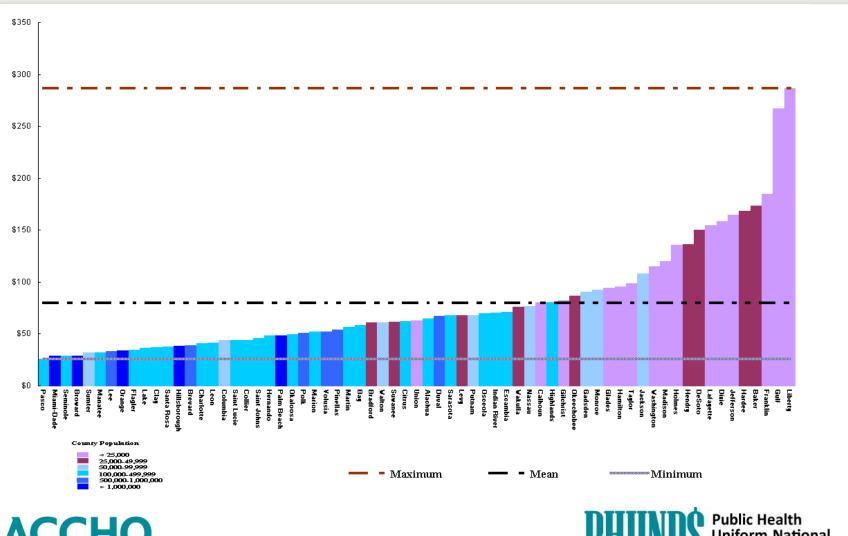




Florida LHDs - Total Margin, 2008



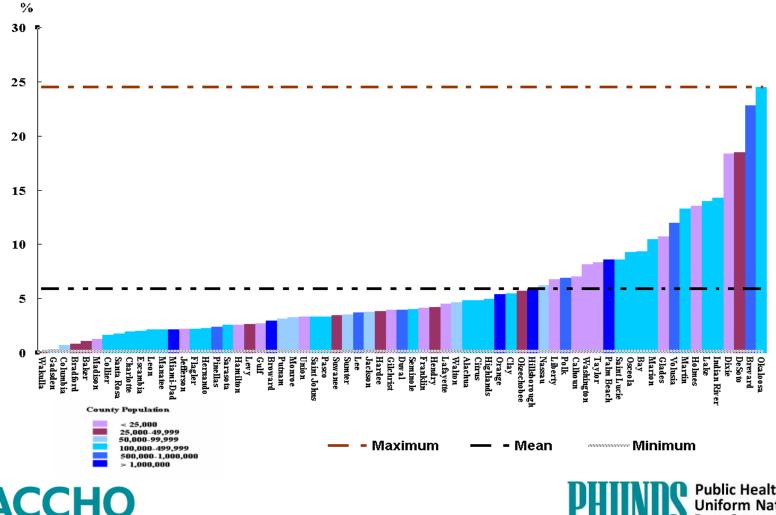
Florida LHDs - Revenue Per Capita, 2008



National Association of County & City Health Officials



Florida LHDs - Accounts Receivables Written Off as Percent of Total Collected, 2008



National Association of County & City Health Officials



Case Study – Mahoning County District Board of Health, Ohio



- Beginning in 2006 a combination of losses in state grants, programs with chronic operating losses, and fee declines led to succession of annual operating deficits.
- Ratio and trend analysis
 allowed LHD to identify areas
 in which to apply turnaround
 strategies beginning in 2008.





Leading Financial Ratios (Dashboard Indicators)

ltem lumber	Local Public Health Agency (LPHA) Financial Data	2006	2007	2008	2009	10.0%		Total Ma	rgin	8.7%
2	Federal Revenues as % of Total Revenues	21.7%	21.4%	17.9%	24.7%	_				
	(Federal Revenues/Total Revenues)					5.0%			4.5%	_
3	State Revenues as % of Total Revenues	5.7%	6.9%	8.5%	8.6%					
	(State Revenues/Total Revenues)						0 70/	-3.2%		
6	Medicare Revenues as % of Total Revenues	0.9%	0.5%	0.5%	0.3%	0.0%	-0.7%	-5.270		
	(Medicare Revenues/Total Revenues)						2006	2007	2008	2009
7	Total Grant revenues as a % of Total Revenues	26.3%	27.7%	24.0%	23.4%					
	(Grant Revenues/Total Revenues)					-5.0%				
12	Total Margin	-0.7%	-3.2%	4.5%	8.7%					
	(Total Revenues - Total Expenditures)/Total Revenues									
13	Operating Ratio	0.99	0.97	1.05	1.09					
	(Total Revenues/Total Expenses)						Gonora	L Eurod B	alance as	% of
18	General Fund Balance as a % of Total Revenue	20.5%	15.8%	19.7%	29.0%		Genera			/0 UI
	(General Fund Balance/Total Revenue)							Total Re	venue	
37	% Programs w/Completed Cost Analysis			36.6%	48.8%	40.0%				
	(# of Programs w/Completed Cost Analysis/Total									29.
	Number of Programs)					30.0%			19.79	
23	Administrative Expenditures as % of Total Expenditures	12.9%	13.2%	15.5%	14.8%	20.0%	20.5	5% 15.8	3%	
	(Administrative Expenditures/Total Expenditures)					10.0%				
24	Average Accumulated Employee Leave Liability				86					
	(Total Accumulated Employee Leave Liability / Total					0.0%	2000	2007	2000	2000
	FTE) in 8 hour days						2006	2007	2008	2009





Operating Deficits by Program Area: Mahoning County, Ohio

- 2006, 2007: Adult day services (ADS) large deficits
- 2007: Total agency deficit ~4.5x greater than 2006

	2006	2007	2008	2009
Adult Day Services (ADS)	(\$59,218)	(\$66,913)	\$4,602	\$31,695
Laboratory	\$5,566	(\$80,468)	(\$28,794)	\$13,708
All Other Agency Programs	\$18,959	(\$7,251)	\$238,360	\$346,449
Total Agency Deficit	(\$34,693)	(\$154,632)	\$214,168	\$391,852





PHUND\$ Web Portal - http://phunds.naccho.org

Confidentiality and access to data

» Agency Sign-Up

» Lost Password

» Contact NACCHO

Welcome to PHUND\$

Sustainability of the governmental public health system is dependent principally on the financial health of state and local public health agencies. This is a challenge since public health programs and services are often provided in fiscally challenging environments (e.g., government revenue declines, budget reductions, economic recessions, unfunded mandates). Effective utilization of resources requires that public health professionals have access to timely, reliable, and uniform data to assess agency and system conditions and to use that information to support decisions. Development of the **Public Health Uniform National Data System (PHUND\$)** responds to that need.

PHUND\$ is a web-based public health financial data collection and analysis portal. PHUND\$ was created to:

- Provide public health agencies with the ability to proactively assess their financial and operational performance
- Aid NACCHO in describing and monitoring the financial health and sustainability of the public health system
- Promote uniform public health financial management practices
- · Advance practices that promote quality in public health
- Increase public health agency transparency



Confidentially is a core value of PHUND\$ and, as such, data collected in PHUND\$ is identifiable only by the reporting agency and NACCHO.





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Request an account: go to home page and click "Agency Sign-Up" button

» Agency Sign-Up

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Existing User Login

You are currently logged in as jwilhoit. Click here to proceed to the PHUD\$ site.

Retrieve lost password >

If you can't remember your User Name, please contact the PHUND\$ for assistance

Haven't signed up yet? Sign up here.

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To begin your PHUND\$ data entry experience, sign up to request an account by clicking the button below.







PHUND\$ http://phunds.naccho.org

• Enter short form data from the "My Data" page



- Access the PHUND\$ Data Dictionary for descriptions of all data points and Indicators calculated in PHUND\$. The Data
 Dictionary also provides suggestions on potential sources where data can be found in your agency.
- View the data for your agency that has been entered into PHUND\$
- View or Edit your agency's descriptive information (e.g. contact person name, phone, region, etc) previously entered in PHUND\$





PHUND\$ short form

Enter New Data (Short Form)

Dashboard Fields (All Fields Mandatory)

Please enter data rounded to nearest dollar (for example \$456.94 should be entered as 457)

Data Year*	- Choose One -
Local (County/City) Government Revenues*	
State Revenues*	
Federal Revenues*	
Total Revenues*	
Communicable Diseases Prevention Revenues*	
Total Expenditures*	
Program Expenditures*	
Administrative Expenditures*	
Communicable Diseases Prevention Expenditures*	
General Fund Balance*	
Prior Period General Fund Balance*	





NC State Extract

- 6 of the 12 Core Financial Indicators Available through WIRM or State Controllers Office, maybe more
- 10 of the Other Financial Indicators would need local input
- Demographic data could be centrally populated*





PHUND\$ Web Portal - http://phunds.naccho.org

Data Dictionary

» Enter New Data (Short Form)

» Data Dictionary

Data Dictionary

Term	Definition
Administrative Expenditures	Operating expenses to perform support functions other than those directly linked to public health services or programs. Categories include: Health Officer/Agency Director, Non-clinical Administrative & Fiscal Services, Legal, Policy & Evaluation Strategic Planning, Government Relations, Library, Information Technology and Communications & Marketing. This category does not include the costs associated with eligibility determination services, cashiering, medical records, laboratories, or construction.
Agency Program	Activities typically aligned with organizational mission and funded through dedicated or self-generated funding. Examples include: Health Disparity, Home Health Care, Environmental Health, Maternal & Child Health Care, Communicable Diseases, Public Health Preparedness, etc.
Annual Operating Budget	A fiscal plan for providing programs and services for a single year.
Budget	A plan used to allocate revenues and expenditures to accomplish an organization's objectives for a given period of time.
Budgeted Expenditures	Funds (monies) that are expected to be spent by the LPHD for the provision of public health services and are included in the budget for an upcoming budget period
Budgeted Revenues	Funds (monies) that are expected to be received or earned by the LPHD for the provision of public health services and are included in the budget for an upcoming budget period
Capital Expenditures	Costs incurred by the LPHD for the purchase of machinery, buildings, and/or equipment.
Chronic Diseases Prevention Expenditures	Costs incurred by the LPHD to prevent the occurrence of chronic diseases, including cancer, heart disease and strokes, and diabetes.
Chronic Diseases Prevention Revenues	Funds (monies) received by the LPHD to prevent the occurrence of chronic diseases, including cancer, heart disease and strokes, and diabetes.
Communicable Diseases Prevention Expenditures	Costs incurred by the LPHD to prevent the occurrence of communicable diseases, including immunizations and other prevention services such as comprehensive HIV/Aids risk reduction services for adolescents and improved contact investigation for TB cases.
Communicable Diseases Prevention Revenues	Funds (monies) acquired by the LPHD to prevent the occurrence of communicable diseases, including immunizations and other prevention services such as comprehensive HIV/Aids risk reduction services for adolescents and improved contact investigation for TB cases.
Community Health Outcomes	Sometimes referred to as results of the health system; these are indicators of health status, risk reduction, and quality of life enhancement for a specific group of people (e.g., location, race, ethnicity, age, occupation, or other common bonds). Outcomes are long-term objectives that define optimal, measurable future levels of health status, maximum levels of disease, injury, or dysfunction; or prevalence of risk factors.







		Current	ly logged in as Peggy00	2 Log Out Eve	nt Calendar Care	eers About NACCHO	Contact Us	Site Map
	Public Health Uniform Natio Data System	onal		The	National Co	Search	al Public	Health >
PHUND\$ Home	My Data	Dashboard	Benchmarking	Data Trends	Ratio Trends	NACCHO Home	2	

» Enter New Data (Short Form)

» Data Dictionary

View Data

Once you SAVE PROGRESS or SUBMIT DATA TO SITE on the Short or Full Form, you will be able to immediately view that data on this View Data screen. If you SAVE PROGRESS for your data on the Short or Full Form, data can still be seen on the Short Form or Full Form. Once you SUBMIT DATA TO SITE on the Short Form or Full Data Form, however, this View Data screen is the only place where that data can be seen. After that step, data is no longer available for viewing on the Short or Full Forms. Choose a Year: 2011

Data Title	2011
Revenue	· · · · · · · · · · · · · · · · · · ·
Total Local (County/City) Revenue	\$5,515,600
Local General Revenues	\$4,865,000
Local Dedicated Public Health Property Tax Revenues	\$266,600
Dedicated Public Health Millage Rate (\$/1,000 property value)	0.5
Hospital Revenues from Millage Rate Dedicated to Public Health	\$76,000
All Other Local Revenues	\$308,000
Local (County/City) Revenue Non-Itemized Total	\$5,515,600
State Revenues	\$2,781,000
Federal Revenues	\$2,558,462
Medicaid Revenues	\$360,000
Medicare Revenues	\$522,000
Private Insurance Revenues	\$422,000
Federally Qualified Health Center 330 Grant Funding Revenues	\$365,000
Total Fees	\$1,110,603
Patient Fees	\$550,000
Environmental Health Fees	\$275,000
Vital Statistics Fees	\$155,333
Oral Health Fees	\$81,371
All Other Fees Revenue Not Itemized Above	\$48,899
Fees Non-itemized Total	
Entrepreneurship Revenues	\$131,000
Other Revenues	\$126,000
Total Revenues	\$13,802,516
Revenue Breakouts	·
Federal Pass-through for County Public Health from State Revenues	\$310,000
Federal Direct (not through State Health Office) Revenues	\$2,220,586





Ratio trends results

Ratios	Alert	2011	% Change from 2010	2010	% Change from 2009	2009
Revenue Ratios						
Revenues per Capita		\$38.88	-0.6%	\$39.11	1.2%	\$38.63
Federal Revenues as % of Total Revenues		18.5%	1.2%	18.3%	11.7%	16.4%
State Revenues as % of Total Revenues		20.1%	-1.7%	20.5%	-6.6%	21.9%
Local City/County Revenues as % of Total Revenues		40%	1.7%	39.3%	-0.8%	39.6%
Local Dedicated Public Health Property Tax Revenue as % of Total Revenues		1.9%	7.3%	1.8%	-0.9%	1.8%





PHUND\$ Web Portal - http://phunds.naccho.org

Total Grant Revenues as a % of Total Revenues

Click to Compare

Ratio Trends Results

REVENUES PER CAPITA

<u>Total Margin</u> = (Total Revenues – Total Expenditures) / Total Revenues

Operating Surplus or <u>Deficit</u> = Total Revenues – Total Expenditures

<u>Operating Ratio</u> = Total Expenditures / Total Revenues

Ratios	Alert	2011	% Change from 2010	2010	% Change from 2009	2009
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Local Dedicated Public Health Property Tax Revenue as % of Total Revenues		1.9%	7.3%	1.8%	-0.9%	1.8%
Medicaid Revenues as % of Total Revenues		2.6%	2.3%	2.5%	0.1%	2.5%
Medicare Revenues as % of Total Revenues		3.8%	-2.1%	3.9%	-10.3%	4.3%
Total Grant Revenues as a % of Total Revenues		18.3%	1.1%	18.1%	9.4%	16.5%
Medical Services Revenues as a % of Total Revenues		9.6%	-1%	9.7%	-8.8%	10.7%
Total Fees Collected as a % of Total Revenues		8%	1%	8%	1.2%	7.9%
Total Home Health Revenue as % of Total Revenues		1.5%	-5.3%	1.6%	-1.1%	1.6%
Other Revenues as % of Total Revenues		0.9%	-6.1%	1%	25.7%	0.8%
Dedicated Revenues as % of Total Revenues		8.3%	5.2%	7.9%	-3.5%	8.2%
Total Margin		-0.2%	*	0.3%	-32.9%	0.4%
Operating Surplus or Deficit		\$-30,934	*	\$36,105	-32%	\$53,119
Operating Ratio		100.2%	0.5%	99.7%	0.1%	99.6%
One Time Revenues as a % of Total Revenues		5.1%	-1.2%	5.2%	1%	5.1%
Budgeted Revenues as % of Total Revenues		100.5%	1.5%	99.1%	-0.5%	99.6%
Days in Patient Services Accounts Receivables		113.2	2.4%	110.56	15.9%	95.36
Patient Services-Including Oral Health- Accounts Receivables Written Off as a % of Total Patient Services-including Oral Health- Revenues Collected		22%	20.9%	18.2%	22%	14.9%
General Fund Balance as a % of Total Revenues		2%	-9.4%	2.2%	11.7%	2%
% Change in General Fund Balance		-10%		13.1%		8.2%
Total Environmental Health Revenues as a %		1.9%	-6.9%	2%	1.5%	2%





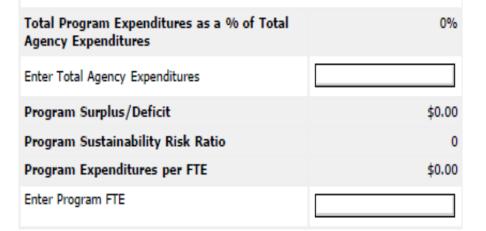
Program analysis tool

Program Sustainability Risk Ratio

Data entered in the Program Sustainability Risk Ratio screen triggers an analysis on the financial performance of any program. This feature of PHUND\$ uses Program revenue and expenditure data to calculate either the surplus or deficit produced by the program. Program deficits are drivers of overall agency financial and operational performance. Consequently, this analysis is most beneficial for reining in programs that drain other areas of the agency. A Program Sustainability Risk Ratio **above 1.0** indicates that the Program is operating in a deficit position and the higher the value above 1.0, the greater the deficit position of the program. Agencies can use these values to rank program performance and set quality and performance improvement priorities.

Note: Note: If you choose Other from the Program Name menu, you will be prompted to enter a name for the program. You will then need to enter both the names and amounts for one or more Revenue categories as well as for one or more Expenditure categories. Once the form is complete, click Submit Data.

Select/Enter Program NameChoose One	
Enter Program Revenue Categories and Related	Amounts
[]	
Total Program Revenues	\$0.00
Enter Program Expenditure Categories and Rela	ated Amounts
	1
Total Program Expenditures	\$0.00



Submit Form





Benchmarking against other LHDs in PHUND\$

Select Agency	y Criteria to Benchmark
Region	All 🔹
	Region 1: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont Region 2: New Jersey, New York, Puerto Rico, Virgin Islands Region 3: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolin Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin Region 6: Arkansas, Louisiana, New Mexico, Oklahoma, Texas Region 7: Iowa, Kansas, Missouri, Nebraska Region 9: Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming Region 9: Arizona, California, Hawaii, Nevada, American Samoa, Commonwealth of the N Islands, Federated States of Micronesia, Guam, Marshall Islands, Republic of Palau Region 10: Alaska, Idaho, Oregon, Washington
Population Served	All
Agency Revenues	- Choose One -
Jurisdiction Type	All
Level of Governance	
Scope of Agency Services	All
Select Ratios	and Data for Comparison
Data Year	2013 -
Ratios to Compare	Revenues per Capita Federal Revenues as % of Total Revenues State Revenues as % of Total Revenues Local City/County Revenues as % of Total Revenues
Davy Data to	



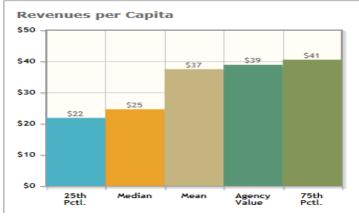


Benchmarking results

Benchmarking Results

Account Title	Agency Value	Mean Benchmark Value	Median Benchmark Value	25th Percentile	75th Percentile	Agency Count
Ratios						
Revenue Ratios	5					
Revenues per Capita	\$38.88	\$37.48	\$24.60	\$21.86	\$40.53	N=8
Raw Data						
Revenue						
Total Local (County/City) Revenue	\$5,515,600	\$1,750,395	\$739,592	\$204,430	\$2,459,468	N=8

Ratio Benchmarking Histogram(s)







PHUND\$ Tools Provide Answers for LHDs

- What expenses need to be reined in?
- Are administrative cost reasonable?
- How diversified are agency revenues?
- Can declines in revenues be forecasted?
- What are demographic and economic indicators that could impact agency financial status?
- What are trends in revenues and expenditures?
- How many programs must be subsidized because they cannot operate fully from dedicated or self-generated revenues?













Thank You

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