

Farmland Information Center

FACT SHEET

COST OF

COMMUNITY

SERVICES

STUDIES



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DESCRIPTION

Cost of Community Services (COCS) studies are a case study approach used to determine the fiscal contribution of existing local land uses. A subset of the much larger field of fiscal analysis, COCS studies have emerged as an inexpensive and reliable tool to measure direct fiscal relationships. Their particular niche is to evaluate working and open lands on equal ground with residential, commercial and industrial land uses.

COCS studies are a snapshot in time of costs versus revenues for each type of land use. They do not predict future costs or revenues or the impact of future growth. They do provide a baseline of current information to help local officials and citizens make informed land use and policy decisions.

METHODOLOGY

In a COCS study, researchers organize financial records to assign the cost of municipal services to working and open lands, as well as to residential, commercial and industrial development. Researchers meet with local sponsors to define the scope of the project and identify land use categories to study. For example, working lands may include farm, forest and/or ranch lands. Residential development includes all housing, including rentals, but if there is a migrant agricultural work force, temporary housing for these workers would be considered part of agricultural land use. Often in rural communities, commercial and industrial land uses are combined. COCS studies findings are displayed as a set of ratios that compare annual revenues to annual expenditures for a community's unique mix of land uses.

COCS studies involve three basic steps:

- 1. Collect data on local revenues and expenditures.
- 2. Group revenues and expenditures and allocate them to the community's major land use categories.
- 3. Analyze the data and calculate revenue-toexpenditure ratios for each land use category.

The process is straightforward, but ensuring reliable figures requires local oversight. The most complicated task is interpreting existing records to reflect COCS land use categories. Allocating revenues and expenses requires a significant amount of research, including extensive interviews with financial officers and public administrators.

HISTORY

Communities often evaluate the impact of growth on local budgets by conducting or commissioning fiscal impact analyses. Fiscal impact studies project public costs and revenues from different land development patterns. They generally show that residential development is a net fiscal loss for communities and recommend commercial and industrial development as a strategy to balance local budgets.

Rural towns and counties that would benefit from fiscal impact analysis may not have the expertise or resources to conduct a study. Also, fiscal impact analyses rarely consider the contribution of working and other open lands, which is very important to rural economies.

American Farmland Trust (AFT) developed COCS studies in the mid-1980s to provide communities with a straightforward and inexpensive way to measure the contribution of agricultural lands to the local tax base. Since then, COCS studies have been conducted in at least 151 communities in the United States.

FUNCTIONS & PURPOSES

Communities pay a high price for unplanned growth. Scattered development frequently causes traffic congestion, air and water pollution, loss of open space and increased demand for costly public services. This is why it is important for citizens and local leaders to understand the relationships between residential and commercial growth, agricultural land use, conservation and their community's bottom line.

COCS studies help address three misperceptions that are commonly made in rural or suburban communities facing growth pressures:

- 1. Open lands—including productive farms and forests—are an interim land use that should be developed to their "highest and best use."
- Agricultural land gets an unfair tax break when it is assessed at its current use value for farming or ranching instead of at its potential use value for residential or commercial development.
- 3. Residential development will lower property taxes by increasing the tax base.

While it is true that an acre of land with a new house generates more total revenue than an acre of hay or corn, this tells us little about

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	Residential	Commercial	Working 8r	
Community	including farm houses	& Industrial	Working & Open Land	Source
Colorado				
Custer County	1:1.16	1:0.71	1:0.54	Haggerty, 2000
Sagauche County	1:1.17	1:0.53	1:0.35	Dirt, Inc., 2001
Connecticut				
Bolton	1:1.05	1:0.23	1:0.50	Geisler, 1998
Brooklyn	1:1.09	1:0.17	1:0.30	Green Valley Institute, 2002
Durham	1:1.07	1:0.27	1:0.23	Southern New England Forest Consortium, 1995
Farmington	1:1.33	1:0.32	1:0.31	Southern New England Forest Consortium, 1995
Hebron	1:1.06	1:0.47	1:0.43	American Farmland Trust, 1986
Lebanon	1:1.12	1:0.16	1:0.17	Green Valley Institute, 2007
Litchfield	1:1.11	1:0.34	1:0.34	Southern New England Forest Consortium, 1995
Pomfret	1:1.06	1:0.27	1:0.86	Southern New England Forest Consortium, 1995
Windham	1:1.15	1:0.24	1:0.19	Green Valley Institute, 2002
Florida				
Leon County	1:1.39	1:0.36	1:0.42	Dorfman, 2004
Georgia				
Appling County	1:2.27	1:0.17	1:0.35	Dorfman, 2004
Athens-Clarke County	1:1.39	1:0.41	1:2.04	Dorfman, 2004
Brooks County	1:1.56	1:0.42	1:0.39	Dorfman, 2004
Carroll County	1:1.29	1:0.37	1:0.55	Dorfman and Black, 2002
Cherokee County	1:1.59	1:0.12	1:0.20	Dorfman, 2004
Colquitt County	1:1.28	1:0.45	1:0.80	Dorfman, 2004
Columbia County	1:1.16	1:0.48	1:0.52	Dorfman, 2006
Dooly County	1:2.04	1:0.50	1:0.27	Dorfman, 2004
Grady County	1:1.72	1:0.10	1:0.38	Dorfman, 2003
Hall County	1:1.25	1:0.66	1:0.22	Dorfman, 2004
Jackson County	1:1.28	1:0.58	1:0.15	Dorfman, 2008
Jones County	1:1.23	1:0.65	1:0.35	Dorfman, 2004
Miller County	1:1.54	1:0.52	1:0.53	Dorfman, 2004
Mitchell County	1:1.39	1:0.46	1:0.60	Dorfman, 2004
Morgan County	1:1.42	1:0.25	1:0.38	Dorfman, 2008
Thomas County	1:1.64	1:0.38	1:0.67	Dorfman, 2003
Union County	1:1.13	1:0.43	1:0.72	Dorfman and Lavigno, 2006
Idaho			_	0 - 7
Booneville County	1:1.06	1:0.84	1:0.23	Hartmans and Meyer, 1997
Canyon County	1:1.08	1:0.79	1:0.54	Hartmans and Meyer, 1997
Cassia County	1:1.19	1:0.87	1:0.41	Hartmans and Meyer, 1997
Kootenai County	1:1.09	1:0.86	1:0.28	Hartmans and Meyer, 1997
Kentucky	1.1.07		0.20	
Campbell County	1:1.21	1:0.30	1:0.38	American Farmland Trust, 2005
Kenton County	1:1.19	1:0.30	1:0.51	American Farmland Trust, 2005
Lexington-Fayette County	1:1.64	1:0.12	1:0.93	American Farmland Trust, 1999
Oldham County	1:1.05	1:0.22	1:0.44	American Farmland Trust, 2003
Shelby County	1:1.03	1:0.24	1:0.44	American Farmland Trust, 2005 American Farmland Trust, 2005

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SUMMARY OF COST OF COMMUNITY SERVICES STUDIES, REVENUE-TO-EXPENDITURE RATIOS IN DOLLAR.				
	Residential including farm houses	Commercial & Industrial	Working & Open Land	Source
Community	rariii nouses	oc maasman	open Luna	Source
Maine Bethel	1: 1.29	1:0.59	1:0.06	Cond 1004
Maryland	1: 1.29	1:0.39	1:0.06	Good, 1994
Carroll County	1:1.15	1:0.48	1:0.45	Carroll County Dept. of Management & Budget, 1994
Cecil County	1:1.13	1:0.48	1:0.43	American Farmland Trust, 2001
Cecil County	1:1.17	1:0.34	1:0.37	Cecil County Office of Economic Development, 1994
Frederick County	1:1.12	1:0.50	1:0.53	American Farmland Trust, 1997
Harford County	1:1.11	1:0.40	1:0.91	American Farmland Trust, 2003
Kent County	1:1.05	1:0.64	1:0.42	American Farmland Trust, 2002
Wicomico County	1:1.21	1:0.33	1:0.96	American Farmland Trust, 2001
Massachusetts	1.1.21	1.0.00	1.000	
Agawam	1:1.05	1:0.44	1:0.31	American Farmland Trust, 1992
Becket	1:1.02	1:0.83	1:0.72	Southern New England Forest Consortium, 1995
Dartmouth	1:1.14	1:0.51	1:0.26	American Farmland Trust, 2009
Deerfield	1:1.16	1:0.31	1:0.29	American Farmland Trust, 1992
Deerfield	1:1.14	1:0.51	1:0.33	American Farmland Trust, 2009
Franklin	1:1.02	1:0.58	1:0.40	Southern New England Forest Consortium, 1995
Gill	1:1.02	1:0.33	1:0.40	American Farmland Trust, 1992
Leverett	1:1.15	1:0.43	1:0.35	Southern New England Forest Consortium, 1995
Middleboro	1:1.13	1:0.27	1:0.23	American Farmland Trust, 2001
				· ·
Southborough	1:1.03	1:0.26	1:0.45	Adams and Hines, 1997
Sterling	1:1.09	1:0.26	1:0.34	American Farmland Trust, 2009
Westford	1:1.15	1:0.53	1:0.39	Southern New England Forest Consortium, 1995
Williamstown	1:1.11	1:0.34	1:0.40	Hazler et al., 1992
Michigan	1 1 17	1 0 20	1 0 27	A
Marshall Twp., Calhoun County	1:1.47	1:0.20	1:0.27	American Farmland Trust, 2001
Newton Twp., Calhoun County	1:1.20	1:0.25	1:0.24	American Farmland Trust, 2001
Scio Twp., Washtenaw County	1:1.40	1:0.28	1:0.62	University of Michigan, 1994
Minnesota	1 1 0 2	1 0 70	1 0 77	A
Farmington	1:1.02	1:0.79	1:0.77	American Farmland Trust, 1994
Independence	1:1.03	1:0.19	1:0.47	American Farmland Trust, 1994
Lake Elmo	1:1.07	1:0.20	1:0.27	American Farmland Trust, 1994
Montana	1 1 60	4 0.24	4 0 24	D: : 4007
Carbon County	1:1.60	1:0.21	1:0.34	Prinzing, 1997
Flathead County	1:1.23	1:0.26	1:0.34	Citizens for a Better Flathead, 1999
Gallatin County	1:1.45	1:0.16	1:0.25	Haggerty, 1996
New Hampshire				
Brentwood	1:1:17	1:0.24	1:0.83	Brentwood Open Space Task Force, 2002
Deerfield	1:1.15	1:0.22	1:0.35	Auger, 1994
Dover	1:1.15	1:0.63	1:0.94	Kingsley, et al., 1993
Exeter	1:1.07	1:0.40	1:0.82	Niebling, 1997
Fremont	1:1.04	1:0.94	1:0.36	Auger, 1994
Groton	1:1.01	1:0.12	1:0.88	New Hampshire Wildlife Federation, 2001
Hookset	1:1.16	1:0.43	1:0.55	Innovative Natural Resource Solutions, 2008
Lyme	1:1.05	1:0.28	1:0.23	Pickard, 2000
Milton	1:1:30	1:0.35	1:0.72	Innovative Natural Resource Solutions, 2005

SUMMARY OF COST OF COMMUNITY SERVICES STUDIES, REVENUE-TO-EXPENDITURE RATIOS IN DOLLARS				
	Residential			
Community	including farm houses	Commercial & Industrial	Working & Open Land	Source
New Hampshire (continued)	farm nouses	mustriai	Open Land	Source
Mont Vernon	1:1.03	1:0.04	1:0.08	Innovative Natural Resource Solutions, 2002
Stratham	1:1.05	1:0.04	1:0.40	Auger, 1994
New Jersey	1:1.13	1:0.17	1:0.40	Auge1, 1774
Freehold Township	1:1.51	1:0.17	1:0.33	American Farmland Trust, 1998
Holmdel Township	1:1.38	1:0.21	1:0.66	American Farmland Trust, 1998
Middletown Township	1:1.14	1:0.34	1:0.36	American Farmland Trust, 1998
Upper Freehold Township	1:1.18	1:0.20	1:0.35	American Farmland Trust, 1998
Wall Township	1:1.28	1:0.30	1:0.54	American Farmland Trust, 1998
New York	1.1.20	1.0.50	1.0.51	Timerean Farmand Trust, 1990
Amenia	1:1.23	1:0.25	1:0.17	Bucknall, 1989
Beekman	1:1.23	1:0.23	1:0.17	
				American Farmland Trust, 1989
Dix	1:1.51	1:0.27	1:0.31	Schuyler County League of Women Voters, 1993
Farmington	1:1.22	1:0.27	1:0.72	Kinsman et al., 1991
Fishkill	1:1.23	1:0.31	1:0.74	Bucknall, 1989
Hector	1:1.30	1:0.15	1:0.28	Schuyler County League of Women Voters, 1993
Kinderhook	1:1.05	1:0.21	1:0.17	Concerned Citizens of Kinderhook, 1996
Montour	1:1.50	1:0.28	1:0.29	Schuyler County League of Women Voters, 1992
North East	1:1.36	1:0.29	1:0.21	American Farmland Trust, 1989
Reading	1:1.88	1:0.26	1:0.32	Schuyler County League of Women Voters, 1992
Red Hook	1:1.11	1:0.20	1:0.22	Bucknall, 1989
Rochester	1:1.27	1:0.18	1:0.18	Bonner and Gray, 2005
North Carolina	1 1 1 6	1 0.22	1 0.50	P. 1. 2007
Alamance County	1:1.46	1:0.23	1:0.59	Renkow, 2006
Chatham County	1:1.14	1:0.33	1:0.58	Renkow, 2007
Henderson County	1:1.16	1:0.40	1:0.97	Renkow, 2008
Orange County	1:1.31	1:0.24	1:0.72	Renkow, 2006
Union County	1:1.30	1:0.41	1:0.24	Dorfman, 2004
Wake County Ohio	1:1.54	1:0.18	1:0.49	Renkow, 2001
Butler County	1:1.12	1:0.45	1:0.49	American Farmland Trust, 2003
Clark County	1:1.12	1:0.43	1:0.49	American Farmland Trust, 2003
Hocking Township	1:1.11	1:0.38	1:0.30	Prindle, 2002
Knox County	1:1.10	1:0.27	1:0.17	American Farmland Trust, 2003
Liberty Township	1:1.05	1:0.58	1:0.25	Prindle, 2002
Madison Village, Lake County	1:1.13	1:0.31	1:0.03	American Farmland Trust, 1993
Madison Twp., Lake County				American Farmland Trust, 1993
Madison Village, Lake County	1 : 1.40 1 : 1.16	1:0.25 1:0.32	1:0.30 1:0.37	American Farmland Trust, 1993 American Farmland Trust, 2008
Madison Twp., Lake County	1:1.16	1:0.32	1:0.37	American Farmland Trust, 2008
Shalersville Township		1:0.33	1:030	
Pennsylvania	1:1.58	1:0.1/	1:0.31	Portage County Regional Planning Commission, 1997
Allegheny Twp., Westmoreland County	1:1.06	1:0.14	1:0.13	Kelsey, 1997
Bedminster Twp., Bucks County	1:1.06	1:0.14	1:0.13	Kelsey, 1997
Bethel Twp., Lebanon County	1:1.08	1:0.17	1:0.06	Kelsey, 1992
Bingham Twp., Potter County	1:1.56	1:0.16	1:0.15	Kelsey, 1994
Buckingham Twp., Bucks County	1:1.04	1:0.15	1:0.08	Kelsey, 1996

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SUMMARY OF COST OF COMMUNITY SERVICES STUDIES, REVENUE-TO-EXPENDITURE RATIOS IN DOLLARS Residential				
Community	including farm houses	Commercial & Industrial	Working & Open Land	Source
Pennsylvania (continued)				
Carroll Twp., Perry County	1:1.03	1:0.06	1:0.02	Kelsey, 1992
Hopewell Twp., York County	1:1.27	1:0.32	1:0.59	The South Central Assembly for Effective Governance, 2002
Kelly Twp., Union County	1:1.48	1:0.07	1:0.07	Kelsey, 2006
Lehman Twp., Pike County	1:0.94	1:0.20	1:0.27	Kelsey, 2006
Maiden Creek Twp., Berks County	1:1.28	1:0.11	1:0.06	Kelsey, 1998
Richmond Twp., Berks County	1:1.24	1:0.09	1:0.04	Kelsey, 1998
Shrewsbury Twp., York County	1:1.22	1:0.15	1:0.17	The South Central Assembly for Effective Governance, 2002
Stewardson Twp., Potter County	1:2.11	1:0.23	1:0.31	Kelsey, 1994
Straban Twp., Adams County	1:1.10	1:0.16	1:0.06	Kelsey, 1992
Sweden Twp., Potter County	1:1.38	1:0.07	1:0.08	Kelsey, 1994
Rhode Island				
Hopkinton	1:1.08	1:0.31	1:0.31	Southern New England Forest Consortium, 1995
Little Compton	1:1.05	1:0.56	1:0.37	Southern New England Forest Consortium, 1995
West Greenwich	1:1.46	1:0.40	1:0.46	Southern New England Forest Consortium, 1995
Tennessee				
Blount County	1:1.23	1:0.25	1:0.41	American Farmland Trust, 2006
Robertson County	1:1.13	1:0.22	1:0.26	American Farmland Trust, 2006
Tipton County	1:1.07	1:0.32	1:0.57	American Farmland Trust, 2006
Texas				
Bandera County	1:1.10	1:0.26	1:0.26	American Farmland Trust, 2002
Bexar County	1:1.15	1:0.20	1:0.18	American Farmland Trust, 2004
Hays County	1:1.26	1:0.30	1:0.33	American Farmland Trust, 2000
Utah				
Cache County	1:1.27	1:0.25	1:0.57	Snyder and Ferguson, 1994
Sevier County	1:1.11	1:0.31	1:0.99	Snyder and Ferguson, 1994
Utah County	1:1.23	1:0.26	1:0.82	Snyder and Ferguson, 1994
Virginia				, , , , , , , , , , , , , , , , , , , ,
Augusta County	1:1.22	1:0.20	1:0.80	Valley Conservation Council, 1997
Bedford County	1:1.07	1:0.40	1:0.25	American Farmland Trust, 2005
Clarke County	1:1.26	1:0.21	1:0.15	Piedmont Environmental Council, 1994
Culpepper County	1:1.22	1:0.41	1:0.32	American Farmland Trust, 2003
Frederick County	1:1.19	1:0.23	1:0.33	American Farmland Trust, 2003
Northampton County	1:1.13	1:0.97	1:0.23	American Farmland Trust, 1999
Washington				
Okanogan County	1:1.06	1:0.59	1:0.56	American Farmland Trust, 2007
Skagit County	1:1.25	1:0.30	1:0.51	American Farmland Trust, 1999
Wisconsin				,
Dunn	1:1.06	1:0.29	1:0.18	Town of Dunn, 1994
Dunn	1:1.02	1:0.55	1:0.15	Wisconsin Land Use Research Program, 1999
Perry	1:1.20	1:1.04	1:0.41	Wisconsin Land Use Research Program, 1999
Westport	1:1.11	1:0.31	1:0.13	Wisconsin Land Use Research Program, 1999

Note: Some studies break out land uses into more than three distinct categories. For these studies, AFT requested data from the researcher and recalculated the final ratios for the land use categories listed in this table. The Okanogan County, Wash., study is unique in that it analyzed the fiscal contribution of tax-exempt state, federal and tribal lands.

American Farmland Trust's Farmland Information Center acts as a clearinghouse for information about Cost of Community Services studies. Inclusion in this table does not necessarily signify review or endorsement by American Farmland Trust.

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For additional information on farmland protection and stewardship contact the Farmland Information Center. The FIC offers a staffed answer service and online library with fact sheets, laws, sample documents and other educational materials.

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a community's bottom line. In areas where agriculture or forestry are major industries, it is especially important to consider the real property tax contribution of privately owned working lands. Working and other open lands may generate less revenue than residential, commercial or industrial properties, but they require little public infrastructure and few services.

COCS studies conducted over the last 20 years show working lands generate more public revenues than they receive back in public services. Their impact on community coffers is similar to that of other commercial and industrial land uses. On average, because residential land uses do not cover their costs, they must be subsidized by other community land uses. Converting agricultural land to residential land use should not be seen as a way to balance local budgets.

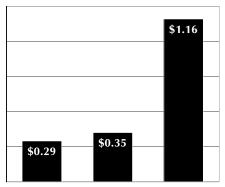
The findings of COCS studies are consistent with those of conventional fiscal impact analyses, which document the high cost of residential development and recommend commercial and industrial development to help balance local budgets. What is unique about COCS studies is that they show that agricultural land is similar to other commercial and industrial uses. In nearly every community studied, farmland has generated a fiscal surplus to help offset the shortfall created by residential demand for

public services. This is true even when the land is assessed at its current, agricultural use. However as more communities invest in agriculture this tendency may change. For example, if a community establishes a purchase of agricultural conservation easement program, working and open lands may generate a net negative.

Communities need reliable information to help them see the full picture of their land uses. COCS studies are an inexpensive way to evaluate the net contribution of working and open lands. They can help local leaders discard the notion that natural resources must be converted to other uses to ensure fiscal stability. They also dispel the myths that residential development leads to lower taxes, that differential assessment programs give landowners an "unfair" tax break and that farmland is an interim land use just waiting around for development.

One type of land use is not intrinsically better than another, and COCS studies are not meant to judge the overall public good or long-term merits of any land use or taxing structure. It is up to communities to balance goals such as maintaining affordable housing, creating jobs and conserving land. With good planning, these goals can complement rather than compete with each other. COCS studies give communities another tool to make decisions about their futures.

Median COCS Results



Commercial Working & Residential & Industrial Open Land

Median cost per dollar of revenue raised to provide public services to different land uses.



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