

# The Economic Impact of Continuing Operations of the University of Connecticut: Update January 2004

Stan McMillen, Manager, Research Projects

With valuable research assistance from:
Anasua Bhattacharya
Tapas Ray
Xiaozhong Liang

Revision Date: June 14, 2004

# CONNECTICUT CENTER FOR ECONOMIC ANALYSIS®

Fred V. Carstensen, Director University of Connecticut 341 Mansfield Road Unit 1240 Storrs, CT 06269

Voice: 860-486-0485 Fax: 860-486-0204 http://ccea.uconn.edu

#### **EXECUTIVE SUMMARY**

Founded in 1881, the University of Connecticut (UConn) is a public research institution whose mission is to perform basic research and to deliver excellent instruction, as well as to promote economic growth in Connecticut through its contributions in creating a skilled labor force, developing product and process innovations, providing community service, and generally enhancing the state's quality of life. UConn is one of the few universities in the United States that has been designated a land, sea, and space grant University. The University of Connecticut embraces the main campus in Storrs, five regional campuses, the Health Center, Law School, and School of Social Work, the last three located in Hartford County. The University's programs spread across Connecticut. Except for Middlesex and Windham counties, each Connecticut county hosts one or more UConn campuses or schools.

UConn sustains a broad range of activities, from teaching, research, medical services, and community outreach work to arts and athletic events that cover all aspects of human life. UConn is also a major business, buying a vast array of supplies and services from Connecticut companies and providing a host of services. Its impact reaches from border to border and, as such, no other Connecticut institution matches the farreaching effect UConn has on the state, its communities, individuals, and industries. From this perspective, UConn has multiple dimensions, well beyond the common perception of it as being merely involved with teaching and research.

This study updates the previously published study of March 2003. This study again measures the economic impact of UConn on Connecticut, by answering the following questions: What economic and fiscal impact does UConn have on local (county) economies and the state economy as a whole? How much increase in economic output and employment in the county and state economies does UConn generate? Is the state contribution to UConn a sound investment? As the flagship public university for Connecticut, UConn's economic and fiscal impact is important from the perspective of taxpayers' as well as from that of public policy-makers. To provide appropriate context, this study examines several recent studies of the economic impact of other public universities on their states and provinces; by comparison, this analysis is quite comprehensive in scope and scale. It accounts for all activities of the University,



including employment, supply of professional workers, procurement, research, visitor spending, and community service, to spin-off companies and licensing and royalty arrangements. These activities in turn generate rounds of spending and employment that cumulatively generate growth in Connecticut's economy.

The approach in this study to estimating UConn's economic impact is to remove it counterfactually from the Connecticut economy. The difference between today's economy with UConn and a hypothetical one without it represents the net economic impact UConn has on the state. This approach excludes any substitute activities or alternative use of UConn facilities. In this way, we capture the instantaneous impact of UConn's established patterns of economic contribution to Connecticut.

The assumptions underlying the analysis of economic impact are conservative. Specifically, UConn's research impact is specifically under-estimated because of the lack of an extensive survey of the companies whose locational raison d'être' or even existence depends on UConn research and innovation.

The list below enumerates the basic components of the University's direct impact on the Connecticut economy (unless otherwise noted, all figures are for FY2001):

- ➤ Wages and salaries of 10,307 employees (FTE) who reside in Connecticut (includes a wage bill adjustment of \$309 million higher than state *aggregate* average annual income in the education, medical, miscellaneous business and professional services sectors than REMI assumes as its baseline);
- ➤ \$251 million spent for goods and services in Connecticut by UConn providing dual benefits of lower prices and stimulating local businesses;
- ➤ \$134 million in student expenditure injected into the economy;
- ➤ 17,218 full-time students represent an increase in the college age population of the region that has a small impact on the labor supply of the region;
- ➤ 2,783 UConn graduates in 2002 represent a flow of human capital into the Connecticut economy in various professional occupations;
- ➤ 165,949 (out of over 1 million total) net new visitors attracted to facilities at UConn, generating over \$10 million net new spending in the region;
- Professional development programs that increase productivity of the Connecticut workforce in selected sectors;



- ➤ 1,973 UConn retirees residing in Connecticut inject more than \$46 million through consumption expenditures into the economy;
- ➤ \$147.3 million in amenity value (e.g., research, community service) increases the quality of life in Connecticut;
- ➤ 26 people employed in spin-off companies associated with UConn;
- ➤ \$36 million research and development money subcontracted to various companies and institutions across Connecticut;
- ➤ \$339 million state support in various forms (primary appropriation, fringe benefits, grants and contracts) returned to taxpayers as an increase in their disposable income;

These inputs capture the full range of activities that generate the University's net economic impact. This approach develops the analysis from expenditure patterns rather than from revenues because we know more precisely the magnitudes and sectoral distribution of expenditures. The alternative approach would be to let the Connecticut economic model allocate revenues to receiving sectors, necessarily a far less accurate approach to understanding the impact of UConn.

#### Results

Table 20, reproduced below from the body of the report, summarizes the total economic impact of UConn on Connecticut and its counties. The total impact represents the direct, indirect and induced effects of UConn's myriad activities. Peak values are the maximum values attained during the economy's endogenous adjustment to UConn's counterfactual absence.

Table 20	Table 20: Summary of Findings: UConn's Peak Contribution to the Economy								
	Connecticut	Fairfield	New Haven	Hartford	Tolland	New London	Windham	Litchfield	Middlesex
Gross Regional Product (Million									
2001 \$)	\$2,783	\$519	\$397	\$942	\$321	\$156	\$149	\$85	\$203
Gross Personal Income (Million 2001 \$)	\$1,917	\$134	\$185	\$679	\$360	\$103	\$201	\$72	\$182
Real Disposable Personal	Ψ1,517	ΨΙΟΤ	ψ100	ΨΟΙΟ	ψοσο	Ψ100	Ψ201	Ψ12	Ψ102
Income (Million 2001 \$)	\$2,077	\$280	\$289	\$609	\$298	\$126	\$169	\$95	\$200
Population (Individuals)	46,980	4,471	7,118	14,290	7,049	2,439	3,994	1,812	7,320
Employment (Jobs)	25,410	2,371	2,854	8,887	5,163	1,183	2,191	780	2,231
Non-Farm Employment (Jobs)	22,550	2,237	2,557	8,114	4,936	1,068	2,126	704	1,830
Disposable Personal Income (Million 2001 \$)	\$1,868	\$192	\$226	\$620	\$308	\$107	\$171	\$76	\$167
State Revenues at State Average Rates (Mil. 2001 \$)	\$277	\$41	\$37	\$90	\$36	\$15	\$20	\$11	\$27
Local Revenues at Adjusted State Average Rt. (Mil. 2001 \$)	\$151	\$17	\$20	\$54	\$18	\$9	\$12	\$6	\$14
State Expenditures at State Average Rates (Mil. 2001 \$)	\$78	\$7	\$11	\$23	\$12	\$4	\$7	\$3	\$12
Local Expenditures at Adjusted State Average Rt. (Mil. 2001 \$)	\$180	\$19	\$26	\$62	\$24	\$9	\$15	\$7	\$25



Were it not for UConn, Connecticut's Gross State Product (GSP) would decline by almost \$2.8 billion, representing about 1.5%. Total employment would decline by more than 25,000 jobs representing 1.5% of Connecticut's total employment. Thus, unemployment would be currently about 5.3% compared to 3.8% (April 2002, CT DoL). Fiscally, the state gains more revenue than it spends, while towns' and municipalities' expenditures slightly exceed revenues.

A critical insight emerges from this analysis: the state's contribution (about \$340 million) leverages \$650 million in private and federal investment. It is the total revenue (\$989 million), public and private, that creates UConn's total impact, however, we detail the benefit-cost ratios based solely on the state's contribution relative to total impact.

Public support for UConn generates \$277 million in peak (that is, the value when the economy has adjusted to its counterfactual absence) new tax revenues for Connecticut. This means for every dollar of state contribution to UConn, state tax revenues increase 82 cents—meaning that the University, because of the activity it generates, is nearly self-supporting from the perspective of the state. Table 18 from the body of the report shows the primary benefit-cost ratios.

Table 18: Cost-Benefit Analysis of the State Support for UConn							
Categories	Ratios	State Support (\$339 million)					
Increase in State Tax Revenue	0.82	For every \$1 spent for UConn					
Increase in Gross State Product	8.21	For every \$1 spent for UConn					
Increase in Gross Personal Income	5.65	For every \$1 spent for UConn					
Job Creation	1	For every \$13341 spent for UConn					
Federal Research Money	\$0.28	For every \$1 spent for UConn					

This table also shows that for every state dollar spent on UConn, GSP increases \$8.21 (in constant 2001 dollars). Similarly, for each taxpayer's dollar of support, personal income increases \$5.65. As these two results reveal, the state gets a very high rate of return to its investment in 'human capital,' considerably higher than other forms of investment (e.g., stock market, bonds, and money market funds) for taxpayers and the state. The table also shows how the economic benefits extend to significant job creation: each \$13,341 of state investment in UConn creates one job, primarily at the college level or higher.



Ranked by size in terms of their value of output among the seventy (2-digit SIC) economic sectors that make up the state's economy, UConn is 25<sup>th</sup>. Compared to thirteen other university impact studies, UConn performs at the top of its class in return to GSP per dollar invested.

Taken together, these results demonstrate that the University of Connecticut is a powerful economic driver for the State of Connecticut and, through its leverage effects, creates noteworthy returns to Connecticut's individual and corporate taxpayers and to their quality of life.

We gratefully acknowledge the valuable and timely assistance of UConn's departments of purchasing, payroll, human resources, the UConn Foundation, and the UConn Health Center in providing detailed data and valuable insights into the complex operation of the University.



# TABLE OF CONTENTS

Executive S	ummary	i
Table of Co	ntents	vi
Introduction		1
Investment i	n "Human Capital" and Previous Impact Studies	2
Methodolog	ies and Modeling Strategies	10
I.	Model	10
II.	Conceptual Framework	13
III.	Modeling Strategies	15
	A. University as Operating Institution	16
	B. UConn as an Employer	18
	C. UConn as a Magnet for a Transient Population	20
	D. UConn as Supplier of Well-Educated Labor Force	23
	E. UConn as Visitor Attraction Center	24
	F. UConn as Provider of Professional Training	26
	G. UConn as Tourist Attraction Center	27
	H. UConn and Quality of Life	29
	I. UConn as Innovator	31
	J. UConn's Income Impact	33
Model Assu	mption Summaries	34
Dynamic Ec	conomic Impact Analysis Results	35
Fisca	al Impact	36
Outp	out Impact	39
Emp	loyment and Population Impact	42
Cost-Benefi	t Analysis and Summary of Findings	45
Appendix I:	UConn Economic Impact by Senate District	49
Appendix II	: UConn Economic Impact by Assembly District	54



# THE ECONOMIC IMPACT OF THE UNIVERSITY OF CONNECTICUT

#### I: Introduction

Founded in 1881, the University of Connecticut (UConn) is a public research institution whose mission is to perform basic research and to deliver excellent instruction, as well as to promote economic growth through its contributions in creating a skilled labor force, developing product and process innovations, providing community service, and generally enhancing the state's quality of life. UConn is one of the few universities in the United States that has been designated a land, sea, and space grant University. The University of Connecticut embraces the main campus in Storrs, five regional campuses, the Health Center, Law School, and School of Social Work, the last three located in Hartford County. The University's programs spread across Connecticut. Except for Middlesex and Windham counties, each Connecticut county hosts one or more UConn campuses or schools.

UConn sustains a broad range of activities, from teaching, research, medical services, and community outreach work to arts and athletic events that cover all aspects of human life. UConn is also a major business enterprise, buying a vast array of goods and services from Connecticut companies and providing a host of services. Its impact reaches from border to border and, as such, no other Connecticut institution matches the far-reaching effect UConn has on the state, its communities, individuals, and industries. From this perspective, UConn has multiple dimensions, well beyond the common perception of it as being merely involved with teaching and research.

This study again provides answers to the following questions: What economic and fiscal impact does UConn have on local (county) economies and the state economy as a whole? How much increase in economic output and employment in the county and state economies does UConn generate? Is the state contribution to UConn a sound investment? As the flagship public university for Connecticut, UConn's economic and fiscal impact is important from the perspective of taxpayers' as well as from that of public policy-makers. To provide appropriate context, this study examines several recent



studies of the economic impact of other public universities on their states and provinces; by comparison, this analysis is comprehensive in scope and scale. It accounts for all activities of the University, including employment, supply of professional workers, procurement, research, visitor spending, and community service, to spin-off companies and licensing and royalty arrangements. These activities in turn generate rounds of spending and employment that cumulatively generate growth in Connecticut's economy.

This study answers these questions using the Connecticut Economic Model from Regional Economic Models, Inc. of Amherst, Massachusetts, (REMI), a dynamic, multisector, regional model. The REMI model measures the economy in its present form as a baseline. Because UConn already exists in the baseline model, in order to identify its contribution to the state and local economies, we remove it from the state economy counterfactually and then analyze how this affects both the local (county) and state economies. Realizing the difficulties in capturing both tangible and intangible benefits of UConn to communities and the state, we exercise extreme caution in estimating input (policy) variables and avoid double counting. Because of this approach, the input estimates and impact results are conservative.

The next section (II) briefly describes the role of investments in "human capital" and reviews previous university impact studies to provide context for this study. Section III then lays out the methodology and conceptual framework that this study employs. Section IV considers economic impact categories (research, purchasing, visitor expenditure, student expenditure, population, retirees, amenity, income, occupational supply, occupational training, and employment) and modeling strategies in detail. Section V summarizes the modeling strategies and Section VI presents findings. Finally, Section VII provides a cost-benefit summary and conclusion.



# II: Investment in "Human Capital" and Other University Impact Studies

Who benefits from Universities? What is the magnitude of the benefits for each beneficiary? These are the primary questions to which previous impact studies respond. Methodologically, what input to use (in terms of tangible and intangible benefits), how to measure (input-output models such as IMPLAN, RIMS II, or REMI) economic value, and what time frame to use (long-term, short-term) changes from one study to another, though the majority of studies estimates the economic impact of university-induced spending using IMPLAN for a long-term perspective.

This section first reviews relevant studies and how they dealt with the two questions above, and then looks at the methodological differences and difficulties in capturing the economic impact of universities. We focus on selected studies because there are a massive number; our review does seek to be exhaustive.

Universities benefit, that is, create value for, directly and/or indirectly, socioeconomic and political life in a society. One of the crucial factors that separates one society from another is knowledge, which some economists consider the engine of growth in the new economy. In the process of generating knowledge (by universities) and acquiring it (by individuals), spillovers or positive externalities emerge that benefit society as a whole.

In their study of the University of Arizona economic and revenue impact, Charney and Pavlakovich (1999) divide society into four groups (individuals, state and local governments, state and local communities, and society at large) in order to identify the high return that their analysis provides to each of these groups. While other studies acknowledge the total impact universities have on their host communities, they focus their attention on one or a few aspects of the total impact. For example, after examining the role of economic growth in the Hawaiian economy, the University of Hawaii study looks at the rates of return to individuals and taxpayers from their investment in higher

<sup>&</sup>lt;sup>1</sup> Charney, Alberta H. and Vera Pavlakovich, <u>The University of Arizona: An Investment in Arizona's and Pima County's Future: Economic and Revenue Impact Analysis 1997-98</u>, (Tuscan, Arizona: The University of Arizona, 1999).



3

education.<sup>2</sup> The University of South Carolina study emphasizes returns to the individual and state, while mentioning services to the community provided by universities.<sup>3</sup> A University of Waterloo study provides one of most comprehensive looks at the overall impact on the community, state and local government. Through an extensive survey of university research-related economic activities, this study analyzes broader societal implications of these activities as well as direct university-related spending.<sup>4</sup> The University of Maryland study discusses the benefits of higher education to individuals and communities and society in separate sections.<sup>5</sup>

Although many of these studies mention the specific groups or sectors in society that benefit from the particular universities, none of these studies estimates the actual contribution to each group and then looks at the total impact on various societal groups. Therefore, the economic impact values that these studies report capture only the impact of university-related spending (e.g., operating expenditures, visitor spending, student spending, alumni spending, and spin-off companies). Below, we discuss how universities benefit individuals, state and local governments, local communities and industries, and society at large. One should bear in mind that the separation among these entities is not clear-cut, but they are intertwined with each other.

*Individuals*. Higher education benefits individuals in many ways. First, education enables individuals to be productive after graduation. Many university graduates initiate their own businesses entering the economic arena as entrepreneurs. Second, according to a study, there is "nearly a \$1 million lifetime difference in the earnings of people with a bachelor's degree (\$2,225,657) versus those with just a high-

\_

<sup>&</sup>lt;sup>6</sup> In fact, many studies look at the economic impact of the universities in a narrow sense, taking into account the university as operating organization. A few studies go beyond and look at the university as a knowledge generator. See, PricewaterhouseCoopers (2001), and Walter Sudmant, <u>The Economic Impact of the University of British Columbia on the Greater Vancouver Regional District</u>, (Vancouver, Canada: The University of British Columbia, 1999).



<sup>&</sup>lt;sup>2</sup> University of Hawaii: Economic Research Organization, <u>Economic Impact of the University of Hawaii</u>, (Honolulu: The University of Hawaii, 2000).

<sup>&</sup>lt;sup>3</sup> Division of Research, The Darla Moore School of Business, University of South Carolina, <u>The Economic Impact of the University of South Carolina</u>, (South Carolina: University of South Carolina, 2000).

<sup>&</sup>lt;sup>4</sup> PricewaterhouseCoopers, <u>University of Waterloo: Regional Economic Benefits Study</u>, (Waterloo, Canada: University of Waterloo, 2001).

<sup>&</sup>lt;sup>5</sup> The Jacob France Center, <u>The Economic Impact of the University of Maryland on the State of Maryland</u>, (Baltimore: The University of Maryland, 2000).

school diploma (\$1,268,111)."<sup>7</sup> The University of Hawaii Study (2000) estimates that the annual rate of return for a bachelor's degree is 15.8% and for graduate degree 19.1%, surpassing the returns to any other types of investments (e.g., stock market, long-term government bonds). Another study finds that the investment return to education is 22.67%. Third, equal access to higher education benefits women's and otherwise disadvantaged groups' economic status. Last, and not least, higher education improves the quality of life of individuals as well as broadens individuals' outlook and increases their tolerance and participation in their communities and society.

State and Local Governments. Governments benefit from higher education more than any other institution in society. Government benefits do not simply relate to increasing tax revenues through university-related spending. To highlight the prominent benefits governments receive from higher education institutions, first, government tax revenues increase from university-related spending (e.g., university procurement, student spending, visitor spending). A survey of 96 public institutions indicates average state tax revenue generated is \$60 million annually. Furthermore, the same survey indicates that the average return on every \$1 of state money invested in a public higher education institution is \$5.9 Second, public higher education plays an important role in the stability of a state's economy. On average, these institutions spend \$284 million, and employ 6,562 people. 10 Third, university graduates increase the state's tax base because of the higher salaries, and states require less government spending for health and social services. 11 Fourth, an often unaccounted, but a highly crucial role universities play, is the input these universities provide in shaping informed public policy. According to Langford (2000), consultants from universities contribute over 15% of university-related job creation in Calgary, Canada. Moreover, faculty expertise in policy formation further increases the role of universities in the public policy arena.<sup>12</sup> Finally, universities attract

<sup>&</sup>lt;sup>12</sup> Langford, Cooper H., <u>Measuring Economic Impact of University Research on Innovation</u>, (Calgary, CA: University of Calgary, 2000).



<sup>&</sup>lt;sup>7</sup> National Association of State Universities and Land-Grant Colleges, <u>Shaping the Future: The Economic Impact of Public Universities</u>, (Washington, DC: Office of Public Affairs, 2001), p.2.

<sup>&</sup>lt;sup>8</sup> Strang, William A., David L. Funk, and M. Matthew Onofrio, <u>Economic Impact of the University of Wisconsin</u>, (Madison, Wisconsin: University of Wisconsin, 1997).

<sup>&</sup>lt;sup>9</sup> See National Association of State Universities and Land-Grant Colleges, 2001, p. 3.

<sup>&</sup>lt;sup>10</sup> National Association of State Universities and Land-Grant Colleges, 2001, p. 4. See also University of Hawaii. 2000.

<sup>&</sup>lt;sup>11</sup> Charney and Pavlakovich (1999).

research dollars into the state, and thus act as an export industry. Research dollars in turn employ individuals and purchase goods and services.<sup>13</sup> Based on the 96 university survey, the average out-of-state funding was \$105 million.<sup>14</sup>

Local Communities. The presence of the university benefits the communities in which it is located in different ways. As many studies point out, education promotes social justice by providing opportunities to minorities and disadvantaged people.<sup>15</sup> The prominent impact on local communities comes from the fact that the university increases the visibility of the community by its athletic and cultural events. In addition, community-related programs improve the local quality of life. These programs address or cure certain problems, inform the public, provide leadership or present opportunities to area residents to utilize university facilities to become citizens that are more enlightened. 16 Many programs for communities are low cost, no cost or volunteer programs that affect community well-being. Another direct contribution of universities to communities is that they attract a college age population from outside the region. On average, two out of three graduates remain in the communities after graduation supplying a highly skilled, well-educated labor force to the region.<sup>17</sup> This, in turn, affects firms' decisions to locate in these communities where there is a skilled workforce pool. Last, but not least, is the availability of faculty expertise in community affairs that contributes to informed-decision making.

*Impact on the overall economy*. The most pronounced impact of the university is that which, according to Martin and Trudeau (1998), takes two distinct forms: a static impact, primarily through university-related spending, and, a dynamic impact, through research and teaching. <sup>18</sup> The dynamic impact ultimately relates to the question of what

<sup>13</sup> Coupal, Roger and David T. Taylor, <u>Measuring the Contribution of the University to the State's Economic Development: Definitions and Strategies</u>, (Wyoming: University of Wyoming, 1999).

<sup>&</sup>lt;sup>18</sup> University-related spending refers to university operating expenditure, university employment, visitor spending, student spending and alumni spending. For more information about these two types of impact,



<sup>&</sup>lt;sup>14</sup> National Association of State Universities and Land-Grant Colleges, 2001, p.4. On this issue, see also Strang, Funk, and Onofrio (1997).

<sup>&</sup>lt;sup>15</sup> University of Hawaii, 2000.

<sup>&</sup>lt;sup>16</sup> These issues are well-covered in the studies. However, such studies do not attempt to quantify this aspect of the universities. See, Charney and Pavlakovich (1999). Duke University, <u>Economic Impact Year 2000</u> <u>Report</u>, (Durham, NC: Duke University, 2000). The Jacob France Center (2000). Strang, Funk, and Onofrio (1997).

<sup>&</sup>lt;sup>17</sup> National Association of State Universities and Land-Grant Colleges (2001).

causes economic growth. In this context, universities emerge as a powerful engine of economic growth in the new knowledge-based economy. Classic economic growth theory analyzes growth as a function of an increase in physical capital and labor stocks. In addition to these, new growth theory includes the increase in total factor productivity (TFP) as an important part of the economic growth equation. In fact, according to studies, the increase in TFP has become a leading source of U.S. economic growth surpassing the contributions of labor and capital. Economists estimate that about 8 percent of the U.S. annual economic growth between 1979 and 1999 could be attributable to college teaching and research.<sup>19</sup>

# Universities Build Economic Capacity

One can describe the dynamic impact of university research and teaching as "economic capacity building." On the one hand, universities provide necessary skills and the ability to use those skills in the job market. In this sense, the university enables people to perform necessary job requirements society needs. On the other hand, university research and innovations stimulate the economy by introducing new technologies or performance improvements in many sectors. Technological changes flowing out of university research make labor and capital more productive, and thereby increase economic growth. Evidence about the role of universities can be found in increasing "technopoles" located around them, and in an increasing number of university research-related scientific papers cited in industrial patents. In this regard, sixty-five

see Martin, Fernand and Marc Trudeau, "The Economic Impact of University Research," *Research File*, vol. 2, no.3, 1998.

<sup>&</sup>lt;sup>23</sup> Martin and Trudeau (1998), p. 5.



<sup>&</sup>lt;sup>19</sup> For more information about the role of productivity in the U.S. economic growth, see Atack, Jeremy and Peter Passel, New Economic View of American History, 2<sup>nd</sup> edition (New York: W.W. Norton & Company, 1994). For the labor-force quality difference and its role in economic growth, see Hanushek, Eric A. and Dennis D. Kimko, "Schooling, Labor-Force Quality, and the Growth of Nations," *American Economic Review*, vol. 90 No. 5, 2000. For the role of university teaching and research in economic growth in the U.S. between 1979 and 1999, see Reseak, Robert W., *et al.*, Illinois Higher Education: Building the Economy, Shaping Society, (Urbana: Institute of Government and Public Affairs, 2000).

<sup>&</sup>lt;sup>20</sup> Coupal and Taylor (1999).

<sup>&</sup>lt;sup>21</sup> Martin and Trudeau (1998).

<sup>&</sup>lt;sup>22</sup> Ibid., p. 4. See also Langford (2000).

percent of the 96 responding educational institutions report, "that they have a research park and/or business incubator." <sup>24</sup>

With respect to increasing skills and labor productivity, universities supply skilled labor in many professions sometimes direly needed in the region. The presence of a skilled labor force attracts new firms to the region and retains existing firms. This skilled work force is often the source of improved productivity, new ideas and innovations. In addition, universities provide non-credit courses to improve skills of the existing workforce to boost productivity. These courses are similar to on-the-job training provided by firms. As the synergy between universities and companies increases, the latter are likely to substitute in-house job training with non-credit courses. Evidence suggests that on-the-job training increases productivity, thereby contributes to economic growth. <sup>25</sup>

#### Methods and Models to Measure Universities' Economic Benefits

In order to account for all parts of the aforementioned benefits, studies often use an input/output model such as IMPLAN or RIMS II (U.S. Bureau of Economic Analysis). Still others use specifically developed regional input/output models and associated multipliers. Many studies simply focus on the short-run economic impact of university activities, though some studies attempt to capture the long-run impact by calculating rates of return to education for individuals and/or society. In terms of input variables utilized to calculate economic impact, there are large variations across studies. For example, the University of South Carolina Study (2000) only analyzes university-related expenditure and its impact on the economy, whereas the PricewaterhouseCoopers' study (2001) initiates an extensive survey of spin-off companies and technology transfers to identify the dynamic impact of all university activities. The first reason that these studies' focuses remain narrow is the fact that IMPLAN, which they commonly use, does not provide a wide range of productivity, amenity (quality of life enhancing) or fiscal variables to describe the economic activity under study. The REMI model provides a broad range of policy variables to describe complex economic activity over time. In

<sup>24</sup> National Association of State Universities and Land-Grant Colleges (2001).

<sup>&</sup>lt;sup>25</sup> Barron, John M., Mark C. Burger, and Dan A. Black, <u>On-the-Job Training</u>, (Kalamazoo, Michigan: Upjohn Institute for Employment Research, 1997).



2/

addition, the REMI model provides a global trade balance and for economic migration that arise from adjustments by individuals and firms to the changing local economic activity. The second reason is the fact that to measure the impact of all aspects of university activities requires extensive surveys in areas, such as, research, spin-off companies, venturing, consulting, public policy, technology transfer, cultural activities, and, public service programs.<sup>26</sup> Such extensive reviews of programs and services are time consuming and costly.

In this study, we use the REMI model to account for UConn's impact on the state and local (county) economies. In terms of variables, we attempt to capture as many aspects of the University as we can quantify or impute. In this sense, our analysis takes a middle approach: we attempt to quantify certain community service programs, spin-off companies and productivity increases in addition to the tangible benefits. We must add, however, that what we capture in these areas reflects the absolute minimum benefits because of the lack of an extensive survey of each program and faculty engaging in consulting. Table 1 compares selected economic impact studies to shed light on the methodological differences and each study's scope.

<sup>26</sup> For the significance of these aspects of the universities, see Langford (2000).



9

Table 1: Comparative Perspective on the University Impact Study Methodologies for Selected Universities							
Investigator	University	Study Year	Model	Impact Categories			
Center for Business Research	Arizona State University	1999	IMPLAN	University Expenditures, Faculty and Staff Expenditures, Student Expenditures, and Visitor Expenditures			
University of Calorado	University of Calorado	2000	Multipliers	Visitor Expenditure, Student Expenditure, University Expenditure, and Employment			
S. Hussain Ali Jafri, Jay Dudley, and David Buland	Tarleton State University	2001	IMPLAN	University Expenditures, Faculty and Staff Expenditures, Student Expenditures, Visitor Expenditures, and Retiree Expenditures			
Barry C. Field and Selene Weber	The University of Massachusetts at Amherst	1996	Regional I-O Model	Faculty and Staff Expenditure, University Spending, Student Expenditures, and Visitor Expenditures			
The Jacob France Center	University of Maryland	2000	RIMS II	Total Operating Expenditures (Capital & Non- Capital for all Units including Medical and Foundation and Payroll), Student Expenditures, and Visitor Expenditures)			
Randall A. Childs, David Greenstreet, and Tom S. Witt	West Virginia University	1998	IMPLAN	University Expenditure, Employee Spending, Student Spending, and Visitor Expenditures			
Jeffrey M. Humpreys, David G. Clements, JoAnne Lowe, and Tracie W. Sapp	The University of Georgia	1999	RIMS II	University Spending, Athletic Association Spending, Visitor Spending, and Student Spending			
The Darla Moore School of Business	University of Soth Carolina	2000	IMPLAN	Operating Expenditure, Student Expenditure, Athletic Expenditure, and Visitor Expenditure			
PricewaterhouseCooper	University of waterloo	2001	Provincial I- O Model	Operating Expenditure, Spin-off Companies, Alumni, Visitors, and Students			
Economic Research Organization	University of Hawaii	2000	92 I-O Model of Hawaii	Operating Expenditure, Student, Visitor, and Retiree			
Walter Sudmant	The University of British Columbia	1999	Regional Multipliers	Direct Expeditures, Visitors, Student, Employment, Spin-off Companies, and Workforce			
Duke University	Duke University	2000	Multipliers	Employment, University Spending, Student, and Visitor			
Alberta H. Charney, and Vera K. Pavlakovich	The University of Arizona	1999	Regional I-O Models	Expenditures, Employee Spending, Construction, Student, and Visitor			
Murat Arik, Stanley McMillen, and Fred Carstensen	University of Connecticut	2002	REMI	University Expenditure, Student Expenditure, Number of Employees, Wage Bill Adjustment, Visitor Day, Retiree Expenditure, Population Impact, Occupational Supply, Occupational Training-Productivity, Spin-off Companies, and Amenity Value			

As these studies indicate, their primary emphasis is on the narrow expenditure impact of universities on their communities. We attempt to go beyond these methodologies by taking account of the aspects of universities other than expenditure. The next section details our modeling strategy and assumptions.



#### III: Methodology and Modeling Strategies

#### 1: The Model

The REMI model<sup>27</sup> is a dynamic, multi-sector, regional model developed specifically for the Connecticut Center for Economic Analysis. This model provides detail on all eight counties in the State of Connecticut and any combination of these counties. The REMI model includes all of the major inter-industry linkages among 466 private industries aggregated into 49 major industrial sectors. With the addition of farming and three public sectors (state and local government, civilian federal government, and military), there are 53 sectors represented in the model for all eight counties.

The REMI model is based on a nationwide *input-output* (I/O) model that the U.S. Department of Commerce (DoC) developed and continues to develop. Modern input-output models are largely the result of groundbreaking research by Nobel laureate Wassily Leontief. Such models focus on the inter-relationships between industries, and provide information about how changes in specific variables – whether economic variable such as employment or prices in a certain industry or other variables like population -- affect factor markets, intermediate goods production, and final goods production and consumption.

The REMI Connecticut model takes the U.S. I/O "table" results and scales them according to traditional regional relationships and current conditions, allowing the relationships to adapt at reasonable rates to changing conditions. Some salient structural characteristics of the REMI model follow.

- Consumption is determined on an industry-by-industry basis, and is based on real disposable income in Keynesian fashion, i.e. with prices fixed in the short run and GDP (Gross Domestic Product) determined solely by aggregate demand.
- The demand for labor, capital, fuel, and intermediate inputs per unit of output depends on relative prices of inputs. Changes in relative prices cause producers to substitute cheaper inputs for relatively more expensive inputs.

<sup>&</sup>lt;sup>27</sup> The REMI model is developed by Regional Economic Modeling, Inc., Amherst, Massachusetts.



-

- Supply and demand for labor in a sector determine wages weighted by regional differences. The supply of labor depends on the size of the population and the size of the workforce.
- Migration which affects population size depends on real after-tax wages as well as employment opportunities and amenity value in a region relative to other areas.
- Wages and other measures of prices and productivity determine the cost of doing business. Changes in the cost of doing business will affect profits and/or prices in a given industry. When the change in the cost of doing business is specific to a region, it will also affect the share of local and U.S. markets supplied by local firms. Market share and demand determine local output.
- "Imports" and "exports between states are related to relative prices and relative production costs.
- Property income depends only on population and its distribution adjusted for traditional regional differences, *not* on market conditions or building rates relative to business activity.
- Estimates of transfer payments depend on unemployment details of the previous period, and total government expenditures are proportional to population size.
- Federal military and civilian employment is exogenous and maintained at a *fixed* share of the corresponding total U.S. values, unless specifically altered in the analysis.

Because the variables in the REMI model are all related, a change in any one variable affects many others. For example, if wages in a certain sector rise, the relative prices of inputs change and may cause the producer to substitute capital for labor. This changes demand for inputs, which affects employment, wages and other variables in those industries. Changes in employment and wages affect migration and the population level, which in turn affect other employment variables. Such chain-reactions continue



throughout the model. Depending on the analysis performed, the nature of the chain of events cascading through the model economy can be as informative for the policymaker as the final aggregate results. Because the model generates such extensive sectoral detail, it is possible for experienced economists in this field to discern the dominant causal linkages involved in the results.

#### 2. Counterfactual Modeling Approach

Most economic models, including the REMI model, measure the Connecticut economy in its present form as a baseline. Any changes in the economy are either added to or subtracted from that baseline depending on the nature of the change. Because the University of Connecticut already exists in the baseline model, we estimate the most accurate measure of UConn's current impact by counterfactually removing UConn from the Connecticut economy. Intuitively, the results contained in this report measure the losses to the economy resulting from the hypothetical disappearance of UConn. However, one can interpret these same results as the positive impact of UConn's continuing operations by reversing the signs of the economic variables.

This analysis considers nine geographic regions (eight counties and entire state). The broad outreach of UConn provides benefits across the entire state. Figure 1 locates the UConn campuses. Appendix I presents a secondary breakdown of the direct effects of UConn by assembly and senate/congressional districts. We organize this Appendix on a town-by-town basis. In this way, we consider the general economic environment for each local area.



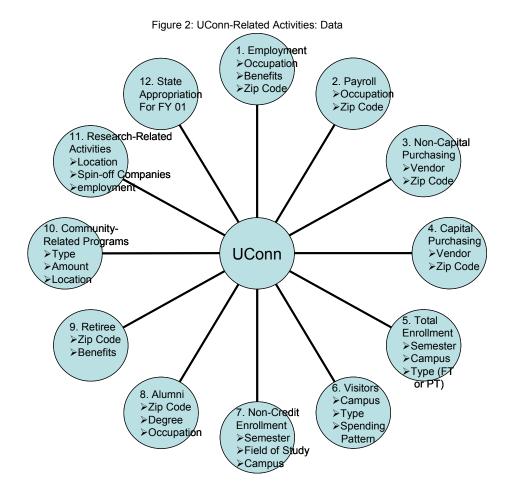
UConn Torrington Campus Windham Tolland Main UC onn Hartford UConn West Hartford Litchfield | Campus-Storrs Campus, Law School, School of Social Work and UConn Health Center UConn Waterbury Campus New London UConn Avery Point Campus Fairfield State of Connecticut UConn Stamford Counties Campus

Figure 1: The UConn Campuses by County

# III: Conceptual Framework

In this analysis, we take UConn as a community located within a larger community (the counties and state). Figure 2 presents the types of data we gathered to construct our framework for analysis.





As Figure 2 indicates, we gathered data by zip code and vendor whichever is appropriate. In order to use a county level model, we need such detail to identify (a) each county's share in total economic activities, and (b) out of state leakages in terms of employment, purchasing, and research dollars.

We then constructed the following framework based on the information gathered as described in Figure 2. Figure 3 presents the framework through which UConn activities translate into economic and societal impact.



**UConn Community Activities** Societal Impact Societal Impact Through Through **Economic Impact Categories** REMI POLICY VARIABLES REMI POLICY VARIABLES and Aggregation →Intermediate Input by Sectors →Employment by **Operating Expenditure** Employment →New Educational Building, &Repair and Maintenance Impact (Less Employment) (3 &4) Impact (1) →Employee Benefits →Model as day trippers, →Typical student Student Expenditure Visitor Expenditure lodging facilities & staying expenditure by sector Impact (5) Impact (6) with friends →Average Productivity Increase because of non-credit course enrollment by selected sectors Occupational Training Occupational Supply →Enter as "occupational training" by specific occupation Impact (8) Impact (7) →Model their spending pattern by using Consumer Expenditure Survey Categories →Quality of Life Impact Because of the Community Service Programs Amenity Retiree Impact (9) Impact (10) →Total employment of the spin-off companies by sector →Increase the number of Research College age population by county (Full-Time students) Impact (11) Impact (5) →Difference between what UConn pays and what model predicts for a given occupation →Redistribute the state Income appropriation as disposable personal Wage Difference Impact (2) Impact (12)

Figure 3: Impact Categories: All Impact Categories and Associated Variables are Aggregated at the County Level

Note: Numbers in parentheses show data categories in Figure 2. For the Retiree and Student Expenditures, we use Consumer Expenditure Survey Categories, available at http://www.bls.gov. For this study, student enrollment is calculated as the full time equivalent (FTE), which is different from the FTE calculations based on the credit. This study considers every 3 part-time student as equal to one full time student.

We identify twelve impact categories as presented in Figure 3 and seek to quantify each. For each category, as we present details in the next sections, our assumptions are highly conservative. For some categories, we take minimum values in order to remain conservative while avoiding double counting. For example, when we calculate the productivity increase because of non-credit enrollment, we only take into account 54,000 non-credit enrollments out of over 200,000 in FY 01.

#### **IV: Modeling Strategies**

We base this study on number of general assumptions. In each category, we make further assumptions to calculate net new contribution of each category to the state. Our general assumptions are:

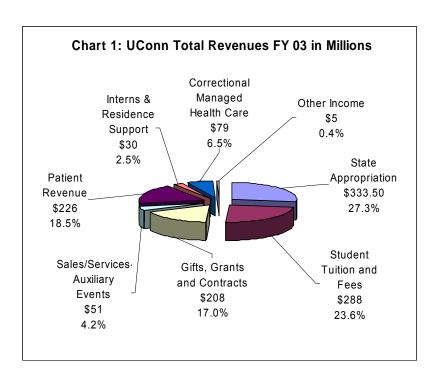
Not all contributions of UConn are net new to Connecticut. Net new, for example, regarding visitor estimates, represents a small fraction of athletic or cultural event attendees, because some people attend such events anyway.



- ➤ We assume zero substitution for UConn programs. Therefore, we model in-state students' expenditure and their families' visits to campuses as 'recaptured' dollars, that is, they would have been spent elsewhere.
- ➤ We model UConn retirees as tourists to the region and their presence in Connecticut depends on the existence of UConn.
- ➤ We assume that, in the absence of UConn, the total state appropriation goes back to taxpayers as an increase in their total disposable income.
- ➤ We assume that UConn community services programs enhance the quality of life in the region.
- ➤ We assume that non-credit enrollment is a type of on-the-job training and increases worker productivity.

# 1: The University as an Operating Business

*Revenues*. <sup>28</sup> Chart 1 shows sources of the University's revenue and their shares of the total. According to Chart 1, state support for UConn accounts for 27.3% of its total revenue.



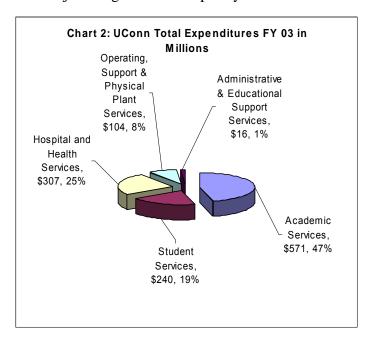
<sup>&</sup>lt;sup>28</sup> Data is obtained from the University of Connecticut, Office of Institutional Research, and Budget Office.



-

The second most important revenue source is student tuition and fees, \$288 million. Health care related revenues contribute \$335 million or 27.4% of the total \$1,219 million revenue. Another important source of revenue is gifts, grants and contracts constituting 17% of total revenue.

*Expenditures*. Chart 2 lays out expenditures by major categories. We divide total expenditures into four major categories for simplicity.



When we look at the spending by major categories, Academic Services accounts for almost half of the total spending with \$571 million. The next major category is the Hospital and Health Services that accounts for one-fourth of total UConn expenditures. Total University expenditures were \$1.239 billion for fiscal year 2003. Out of this total, a significant amount remains in Connecticut.

*Model Assumptions*. As our modeling strategy, we use the UConn-related direct, indirect (business to business) and induced, such as visitors' and retirees' expenditures to calculate the economic impact as opposed to detailing revenues. This approach allows us to capture the detailed economic impacts of the system via specific expenditure paths rather than the nonspecific path of revenues from sources to destinations carried out in



the Connecticut economic model (REMI). Impact results obtained in this way are more accurate and necessarily avoid in any case the use of both revenues and expenditures (double counting). The University of Connecticut's Department of Purchasing and Health Center graciously provided total operating expenditures (capital and non-capital) by zip code and vendor.<sup>29</sup> This allows us to separate in state from out-of-state expenditures. Using these data, we estimate total operating expenditure (less payroll) by county and sector at the 2-digit SIC level. In FY 2003, UConn injected about \$260 million for procurement in Connecticut.

# 2: The University as Employer<sup>30</sup>

Based on payroll data and monthly employment count by zip code, we estimate that UConn employed roughly 6,251 Full Time Equivalents (FTE) who lived in Connecticut in FY 2003. This figure includes all full-time, part-time, and special payroll employees we averaged from monthly employment data. Considering this number, UConn emerges as a major employer in Connecticut.

Table 2 provides the occupational breakdown of UConn employment for FY 2003.<sup>31</sup> According to Table 2, over 40% of employees occupied the professional support category and 24% into faculty, indicating the presence of a highly educated workforce. The educated workforce's increased earnings mean "they typically pay more state and local taxes than workers without degrees."<sup>32</sup>

Table 2: FY 03 Occupational Breakdown of UConn						
Employees (%)						
Faculty	22.71%					
Administrators	3.28%					
Professional Support	43.35%					
Secretarial/Clerical	12.70%					
Para-Professional/Trades	8.63%					
Service/Maintenance	9.33%					

<sup>&</sup>lt;sup>32</sup> National Association of State Universities and Land-Grant Colleges (2001), p. 2.



<sup>&</sup>lt;sup>29</sup> Data obtained from University of Connecticut, Department of Purchasing and the UConn Health Center.

<sup>&</sup>lt;sup>30</sup> Monthly employment data and average payroll by occupation are obtained from the University of Connecticut, Department of Human Services.

<sup>&</sup>lt;sup>31</sup> This is calculated from the Office of Institutional Research website at http://vm.UConn.edu/~wwwoir/

UConn paid more than \$294 million in wages and salaries in FY 2003 to its employees residing in Connecticut. Table 3 shows the distribution of wage disbursements by Connecticut counties.

Table 3: UConn Payroll by County FY 03						
Fairfield	\$11,407,572					
Hartford	\$52,599,148					
Litchfield	\$3,898,430					
Middlesex	\$5,854,660					
New Haven	\$13,130,161					
New London	\$16,108,679					
Tolland	\$140,078,525					
Windham	\$51,277,693					
TOTAL	\$294,354,869					

According to Table 3, Hartford and Tolland Counties are two major recipients of employee wages and salaries...and spending. As the magnitude of the wage distribution indicates, employee spending in the eight counties is likely to create significant impact on the local economy, and to play an important stabilizing role there, because these wages purchase goods and services in the local economies.

Assumptions. To model the employment impact, we aggregated six employment categories in Table 2 into four employment categories: Education, Medical, Miscellaneous Professional, and Miscellaneous Business Services. In order to capture the employment impact accurately, we make a wage bill adjustment as UConn paid \$127 million more than the state average wages benchmarked in REMI in the first four categories in FY 2003. UConn paid almost \$7.7 million less than the state average wage benchmarked in REMI in the Miscellaneous Business Services category for FY 2003. The net wage bill adjustment is \$119 million. This adjustment accounts for the difference in REMI's baseline forecast of the Connecticut economy and the actual wages and salaries paid to certain employee groups and compensates for spending power.

We model the insurance component of employee benefits as \$89.8 million in insurance sales in FY2003. In addition, as we account separately and specifically for UConn's procurement, we nullify intermediate demand for goods and services purchased



in Connecticut based on employment. In addition, we nullify investment demand due to employment, because our assumption is that all physical capital remains intact. If we failed to do this, we would double count employment effects in the REMI model.

# 3: The University as a Magnet for a Transient Population

In the fall 2003, the total number of full-time equivalent students was about 23.845.<sup>33</sup> The average cost of attending the main campus in Storrs per student living on campus was about \$8,440 (this excludes tuition) in 2003-2004.<sup>34</sup> Students affect the local economy in two direct ways: (1) their spending generates jobs in the region, and (2) they add to the local population and labor supply in the region. The latter acts to depress wages for certain industry groups because of the surfeit of labor in those groups, for example, in retail and eating and drinking establishments.

Comparing the fall 2003 (full and part time) headcounts of (public and private) college enrollment (170,624) in Connecticut with UConn enrollment, we note the latter represents about 14% of all (full and part time) Connecticut college enrollments. In terms of graduate and professional degree enrollment, UConn represents 21.4% of the total of such enrollments in Connecticut colleges. These figures indicate the prominent role UConn plays in the state's educational system and, thereby, its economy.<sup>35</sup>

Assumptions. We model the student enrollment both as student expenditures and population increase. According to the Office of Institutional Research, 80.2% of undergraduates enrolled at the Storrs campus are Connecticut residents, while 67.1% of graduate students in Storrs are Connecticut residents (see Table 4). Furthermore, 74% of undergraduate students in Storrs live on-campus, the highest fraction in the nation. Based on these findings, we divide students into three groups in terms of residency: resident, oncampus, and off-campus. We follow similar logic in estimating graduate student

<sup>35</sup> Data about the Connecticut enrollment is obtained from Connecticut Department of Higher Education at www.ctdhe.org.



<sup>&</sup>lt;sup>33</sup> Student data and estimates are obtained from the University of Connecticut, Office of Institutional Research. Full-Time Equivalency estimates in this study does not correspond the credit-based full-time equivalency estimates. We assume that every 3 part-time students spend the same amount as a full-time student in the region.

<sup>&</sup>lt;sup>34</sup> Obtained from the UConn, Financial Aid Office at http://sp.UConn.edu/~wwwfaid/

expenditures, except that we lump graduate students into two categories: those living oncampus and those living off-campus.

Using these breakdowns, we estimate total student expenditures. Due to significant differences in student expenditures in Hartford and Storrs, we adjust student expenditures in Hartford. According to UConn Health Center data, the average living expenditure in Hartford is about \$15,000 as opposed to \$9,000 for graduate students living off-campus in Storrs. We assume undergraduates in Storrs and at the regional campuses spend about \$4,000 if they live with their parents and/or on-campus, 36 and \$9,000 if they live off-campus. For graduate students, we estimate \$5,600 on-campus and \$12,000 off-campus for living expenditures. Table 4 shows the state residency breakdown; we assume most, if not all, students at UConn's regional, Law School and Health Center campuses are Connecticut residents (though the Health Center may have significant non-resident students, but we have no data).

Table 4: UConn Students by Type of Residency and Campus Fall 03								
Campus	Student Characteristics Resident Off-Campus On-Cam							
Storrs	Graduate	67.1%	83.0%	17.0%				
Storis	Undergraduate	80.2%	26.0%	74.0%				
Law School	Graduate	100.0%	100.0%					
Health Center	Graduate		100.0%					
Hartford	Undergraduate		100.0%					
Avery Point	Undergraduate		100.0%					
Stamford	Undergraduate		100.0%					
Torrington	Undergraduate		100.0%					
Waterbury	Undergraduate		100.0%					

Table 5 presents student expenditures by county and expenditure categories<sup>37</sup> and indicates the largest expenditure category is housing at 23%, while food and beverages constitute 14% vehicles. The third largest student expenditure category is computers and furniture constituting 12% of student expenditures. We assume students attending the Storrs campus spend half their total expenditure in Windham County. We estimate a total student expenditure of \$146 million for FY 2003, primarily injected into Tolland, Windham, and Hartford counties.

<sup>37</sup> Our ratios for the expenditure categories are similar to those used by Charney and Pavlakovich (1999).



<sup>&</sup>lt;sup>36</sup> To avoid double counting, we subtracted room expenditure from on-campus students' total expenditures.

Table 5: Total Student Expenditure by County and Expenditure Category FY 03										
REMI SECTORS	Tolland	Hartford	Fairfield	Litchfield	Windham	New London	New Haven	Total	Percent	
Housing	\$9,182,134	\$7,429,011	\$3,851,905	\$821,390	\$9,182,134	\$1,794,847	\$1,628,493	\$33,889,913	23%	
Other Durables	\$2,529,706	\$616,295	\$325,603	\$70,680	\$2,529,706	\$154,390	\$139,799	\$6,366,179	4%	
Other Non-Durables	\$3,372,941	\$821,726	\$434,138	\$94,241	\$3,372,941	\$205,853	\$186,399	\$8,488,239	6%	
Food and Beverages	\$7,548,962	\$3,246,662	\$1,698,201	\$365,182	\$7,548,962	\$797,834	\$723,200	\$21,929,005	15%	
Vehicles and Parts	\$4,172,648	\$1,021,732	\$537,502	\$116,213	\$4,172,648	\$253,868	\$229,980	\$10,504,589	7%	
Transportation	\$1,686,470	\$410,863	\$217,069	\$47,120	\$1,686,470	\$102,927	\$93,200	\$4,244,119	3%	
Gasoline and Oil	\$4,172,648	\$1,021,732	\$537,502	\$116,213	\$4,172,648	\$253,868	\$229,980	\$10,504,589	7%	
Clothing and Shoes	\$5,059,411	\$1,232,590	\$651,207	\$141,361	\$5,059,411	\$308,780	\$279,599	\$12,732,358	9%	
Other Services	\$1,438,487	\$1,159,963	\$669,230	\$156,675	\$1,438,487	\$341,726	\$306,909	\$5,511,476	4%	
Computers and Furniture	\$6,711,625	\$1,639,183	\$864,207	\$187,231	\$6,711,625	\$408,992	\$370,422	\$16,893,286	12%	
Medical Care	\$5,902,646	\$1,438,021	\$759,741	\$164,921	\$5,902,646	\$360,243	\$326,199	\$14,854,418	10%	
Total	\$51,777,677	\$20,037,778	\$10,546,305	\$2,281,227	\$51,777,677	\$4,983,328	\$4,514,180	\$145,918,172	100%	

To adjust for the impact on population, we assume that the full-time student population adds to the state population in two age groups: 20 year olds for undergraduates and 25 year olds for graduate students. These students supply their labor to retail, eating and drinking among other businesses in Connecticut. We assume that if UConn vanished, out-of-state students would not be in Connecticut, and many in-state students would leave the state for their education. Table 6 shows the distribution of the student population by county and average age.

Table 6: Increase in College-Age Population Because of UConn Fall 03								
County	Tolland	Hartford	Fairfield	Litchfield	Windham	New London	New Haven	
Number of Students (20 Years Old)	7582	1142	1134	377	7582	773	677	
Number of Students (25Years Old)	1841	476	395	1	1841	3	23	
Total	9422	1618	1529	378	9422	776	700	

It is evident from Table 6 that Tolland, Windham and Hartford Counties are the prime beneficiaries of the increase in the dynamic student population. With regard to the student population in Windham County, we assume that half the full time students at the Storrs campus work or live there.

# 4: The University as Supplier of Well-Educated Labor Force

UConn plays important role in supplying a well-educated labor force for the local economy. Each year, on average, 4,539 people receive degrees from the University of



Connecticut.<sup>38</sup> According to the Connecticut Department of Higher Education, about 19% of BAs, 16% of MA/MSs, and 38% of Ph.Ds awarded in Connecticut in 1999 are from UConn.<sup>39</sup> When we look at the educational attainment figures people over 25 years old for 2000, which is a large part of the available labor stock in the economy, a flow of 4,539 educated workers into the economy has important implications for the local economy.<sup>40</sup>

One implication is that as the educational level of individuals increases, their annual income increases. This directly translates into an increase in tax revenues and quality of life. Furthermore, education increases job productivity and efficiency. Finally, education means better jobs and/or increasing opportunities to find better jobs than those who are uneducated. In terms of percentages, there is a positive relationship between a low unemployment rate and a high educational level. Through the flow of graduates into economy, such institutions as Health Center, School of Social Work, School of Nursing, and Law School play a crucial role in supplying most needed professions to the Connecticut economy.

Assumptions. Using a historical alumni survey, we estimate that 61% of UConn graduates choose Connecticut as their place of work.<sup>41</sup> We take a two-year average of UConn graduates (2002 and 2003) to estimate an average annual flow of graduates into the Connecticut economy. Taking 61% of 4,568, we arrive at an average number of 2,786 UConn graduates remaining in Connecticut. Finally, we look at the types of jobs alumni respondents hold to profile alumni by job categories. To find the geographical distribution of the graduates in the state, we benefited from the University of Connecticut Foundation database. Using the 1999 and 2000 UConn alumni database, we profile alumni by zip code, and then aggregate to the county level.<sup>42</sup> Table 7 presents the results.

3

<sup>&</sup>lt;sup>42</sup> University of Connecticut Foundation, Inc.



<sup>&</sup>lt;sup>38</sup> This reflects three-year average of graduates (1998, 1999, and 2000). Figure estimated from the University of Connecticut, Office of Institutional Research Web site.

<sup>&</sup>lt;sup>39</sup> Figures are calculated from the CT Department of Higher Education database.

<sup>&</sup>lt;sup>40</sup> According to Census 33% of people over 25 years old have a graduate degree, 52% high school and/or associate degree, and 15% less than high school in 2000. See www.census.gov.

<sup>&</sup>lt;sup>41</sup> Annual alumni survey results are available at the University of Connecticut, Office of Institutional Research web site.

Table 7: UConn Graduates (Working in Connecticut) by Occupation and County									
Occupation	Fairfield	New Haven	Litchfield	Windham	Hartford	Tolland	Middlesex	NewLondon	Total
Social Scientists	104	94	29	20	171	63	26	48	555
Computer, Math Research Analysts	26	24	7	5	43	16	6	12	139
Health Diagnostic Occupations	43	39	12	8	71	26	11	20	231
Health Assessment, Treatment Occupations	40	36	11	8	65	24	10	18	213
Health Technicians, technologists	40	36	11	8	65	24	10	18	213
Teachers, Librarians	49	44	14	9	80	29	12	22	259
Life Scientists	23	20	6	4	37	14	6	10	120
Engineers	19	17	5	4	31	12	5	9	102
Social, Recreational related Workers	21	19	6	4	34	13	5	10	111
Lawyers	14	13	4	3	23	8	3	6	74
Writers, Artists, Entertainers	10	9	3	2	17	6	3	5	55
Other Technicians	5	5	1	1	9	3	1	2	28
Other Professional Workers, NEC	128	116	35	25	211	77	32	59	684
Total	522	473	146	100	857	316	129	240	2783

We model UConn graduates as occupational supply to the professions listed in Table 7. The highest represented occupations are social scientists and other professional workers, not elsewhere classified, and the most preferred counties are Hartford and Fairfield.

#### 5: The University Role in Visitor Attraction

UConn attracts over one million visitors each year. With its first-class athletic teams, theaters, fine arts departments, community events, as well as the Health Center, UConn contributes to the health of the region's economy through visitor expenditures. In calculating the total number of visitors, we use the athletic department's annual ticket sales revenue, visitor center survey, and Jorgensen Center for the Performing Arts attendees. For Health Center visitors, we use conference attendees, in-patient, and outpatient data by zip code to determine the total number of Health Center visitors. Furthermore, we use median party size, median days of stay, and type of accommodation from the 1997 American Travel Survey to estimate the number of visitors to the Health Center. However, due to resource limitations and the absence of a centralized database, we are unable to calculate total visitor activity at the regional campuses and conference attendees (except at the Health Center) in Storrs and regional campuses. Therefore, our visitor estimates are conservative.

Assumptions. Although more than one million people visit UConn annually, not all of them are net new to the region. We assume that only 15% of all athletic events attendees are recaptured (they would have gone elsewhere for such events) and/or net new to the



region. Similarly, we assume only 10% of Jorgensen attendees are net new and/or recaptured. For the Lodewick Visitor Center data, we assume 80% of preadmission or other tours are recaptured visitors. Table 8 presents the results of our findings.

Table 8: UConn Visitors by Type and County (Net New) FY 2003						
		With Family & Friends	Hotel & Motel			
Total Vistors to area	Daytrippers	(Days)	(Nights)			
Hartford County	65,975	854	4,016			
Tolland County	84,724					
Fairfield	1,222					
New Haven	658					
New London	749					
Litchfield	344					
Total	153,672	854	4,016			

We model net new visitors as day-trippers, those staying with family and friends, and those staying in a hotel or motel. Assuming that each day-tripper spends \$60 and those staying in a hotel and motel spend \$150, total visitor spending amounts to about \$9.7 million per year. This figure and net new visitor estimates are minimums.

# 6: The University as Provider of Professional Training

In addition to granting formal degrees, over 200,000 people go through special training to enhance their skills, to refresh their knowledge, to get updated information about their fields or to improve their artistic quality. Whatever the reason, these activities increase worker productivity and improve the quality of life for individuals and the region. For example, approximately 46,000 people registered for non-credit courses through the College of Continuing Education in FY 2003. Moreover, Allied Health Women's Health Conferences attract over 1,000 attendees each year. Non-credit enrollment in the Fine Arts Outreach Program is about 93,850; in the Fine Arts Visiting Artist Lecture Series about 8,364; in the Museum of Natural History about 40,195; in the Continuing Medical Education about 10,489; in the Patient Education Discovery Series about 3,289; and in the Mini-Medical School Non-Credit Program about 261.

Assumptions. We assume that the professional development courses offered by UConn are similar to the on-the-job training, and increase labor productivity. Because of the difficulty to measure the increase in productivity for all non-credit courses, we model



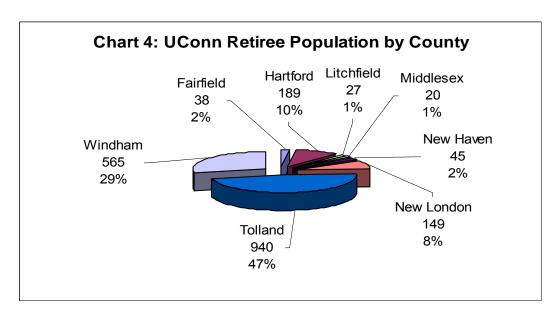
only 46,000 people's (or their employer's) willingness to pay for non-credit courses to improve their skills. We assume that the minimum increase in productivity that we measure as a decrease in production cost is the amount registrants pay for their courses. We obtained total program revenue figures from the University of Connecticut, Budget Office (\$19.43 million in FY 2003), and use REMI historical data to calculate an annual change in real (that is, adjusted for inflation) production costs in selected sectors.

# 7: The University as a Tourist Attraction

Many communities across the U.S. are designing plans to make their communities attractive for the growing retiree population. University retirees are especially targeted groups as they are well educated, better off and mobile. Retiree spending is a significant contribution to the local economy. Because of the importance of this group, we model retirees as tourists.

Assumptions. We assume that UConn retirees choose to stay in Connecticut after their retirement because of the amenity value created by the presence of the University. Similarly, absent the University, these retirees would move out of state. We obtained retiree data by zip code and income from the State Retirement Office through the University of Connecticut, Department of Human Resources. As of 2002, 1,973 retirees live in Connecticut. Chart 4 shows the geographical distribution of UConn's retiree population.





The heavy concentration of the retiree population in Tolland and Windham counties indicates the role played by UConn in their decision to stay in the region.

We model retirees' expenditures using the Consumer Expenditure Survey for the Northeast region. Total retiree expenditure is about \$46 million, of which a significant portion is spent in Tolland and Windham counties. Table 10 presents the retiree expenditure by sector.

Table 10: UConn Retiree Expenditure by Sector						
Sectors	Value					
Food & Beverages	\$6,991,673					
Housing	\$13,517,235					
Fuel, Oil and Coal	\$1,864,446					
Household Operation	\$1,957,669					
Compueters and Furniture	\$2,330,558					
Clothing and Shoes	\$2,330,558					
Vehicles and Parts	\$6,059,450					
Gasoline and Oil	\$1,211,890					
Transportation	\$699,167					
Medical Care	\$2,796,669					
Other Services	\$5,127,227					
Other Durables	\$1,724,613					
Total	\$46,611,157					

# 8: The University and Quality of Life in Connecticut

<sup>&</sup>lt;sup>43</sup> See Bureau of Labor Statistics at www.bls.gov



4

The quality of life of a region is an important concern for residents and policy-makers alike. A high quality of life means an increasing local property tax base, concerned citizens, better educational facilities, and a business and visitor attraction center. UConn provides many programs and services that enhance the quality of life in the region. These programs and services range from providing health services to enlightening parents about child development. Because of resource limitations, we are unable to quantify each of these programs and services. Therefore, we *focused on a few selected services* to present the extent to which UConn is involved in the betterment of life in Connecticut. To account for the total number of volunteer hours for the community originating from UConn, an extensive and time-consuming survey is necessary. This exercise is beyond our current focus.

UConn provides many programs and services presented in Table 11 at low cost or no cost. In the case of some programs, we prorate the number of hours volunteers work for the program. In doing so, we take the minimum wage rate to be conservative in our estimates for the actual cost of provision. We received extensive information on the selected programs from the school themselves. For most cases, however, we rely on the information available through our UConn sources.



Asylum Hill Family Practice  Burgdorf Health Center  \$1,800,000 Care to Medicaid Recipients (Dental)  Health Careers Discovery Program Saturday Academy  Health Careers Discovery Program Summer Science Camp  High School Mini Medical/Dental School Program  \$1,200 High School Student Research Apprentice Program  \$21,600 School-Based Care (6 Public Schools—\$1000/wk)  Science Teacher Summer Fellowship Program  \$21,600 Science Teacher Summer Fellowship Program  \$21,600 The AHEC Program—Bridgeport  \$303,100 The AHEC Program—Bridgeport  \$303,100 The AHEC Program—Norwich  \$361,800 The AHEC Program—Norwich  \$361,800 The AHEC Program—Torrington  \$361,800 The AHEC Program—Torrington  \$352,700 The Health Professions Partnership Initiative (HPPI)  \$150,000 Diversity in Teacher Education Grant  \$2,000 GEAR-UP Grant with Public Schools in Hartford  \$70,000 GEAR-UP Grant with Public Schools in Hartford  \$70,000 GEAR-UP Grant with Public Schools in Hartford  \$114,000 Neag Model Grant  The UCONN/UTC Professional Development Academy  The Stamford Project that Integrates Technology into Public Schools  \$90,000 \$2M Gates Foundation Grant to Train School Administrators  \$1,500,000 \$200 Searent Education Program  \$47,000 School Readiness  \$15,000 School Readiness  \$15,000 School Readiness  \$300,000 School Readiness  \$30	Table 11: UConn Selected Public Service Programs	
Burgdorf Health Center Care to Medicaid Recipients (Dental) Health Careers Discovery Program Saturday Academy Health Careers Discovery Program Summer Science Camp High School Mini Medical/Dental School Program S1,200 High School Student Research Apprentice Program S21,600 School-Based Care (6 Public Schools—\$1000/wk) Science Teacher Summer Fellowship Program S21,600 The AHEC ProgramBridgeport S303,100 The AHEC ProgramHartford S284,400 The AHEC ProgramTorrington S305,100 The Health Professions Partnership Initiative (HPPI) S150,000 Frofessional Development Schools in Central and Eastern Connecticut S1,750,000 Gifted and Talented Grant S25,000 Gifted and Talented Grant S14,000 Gifted and Talented Grant S25,000 Gifted and Talented Grant The UCONN/UTC Professional Development Academy S20,000 The Stamford Project that Integrates Technology into Public Schools S2M Gates Foundation Grant to Train School Administrators S10,000 The Humphrey Center for Marital and Family Therapy S30,000 The Humphrey Center for Marital and Family Therapy S30,000 The Humphrey Center for Marital and Family Therapy S30,000 Teenage Minority Business Program S10,000 Cooperative Extension Programs S23,000 Cutpatient Physical Threapy Program S10,000 Cooperative Extension Programs S23,000 Cutpatient Physical Threapy Program S110,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S15,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S23,000 Cooperative Extension Programs S23,000 Supplying Materials to the Nursing Career Center of CT S3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting S4,800 Street Law Program S97,200 Community Work S2,253,600 Summer Engineering Camp S7,360 BRIDGE Program S11,040	Programs	Amount
Care to Medicaid Recipients (Dental)  Health Careers Discovery Program Saturday Academy  Health Careers Discovery Program Saturday Academy  High School Mini Medical/Dental School Program  High School Student Research Apprentice Program  S21,600 School-Based Care (6 Public Schools-\$1000/wk)  Science Teacher Summer Fellowship Program  \$21,600 School-Based Care (6 Public Schools-\$1000/wk)  Science Teacher Summer Fellowship Program  \$21,600 The AHEC ProgramBartdord  \$284,400 The AHEC ProgramHartford  \$303,100 The AHEC ProgramNorwich  \$361,800 The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI)  \$35,000 Professional Development Schools in Central and Eastern Connecticut  \$1,750,000 Diversity in Teacher Education Grant  \$5,000 GEAR-UP Grant with Public Schools in Hartford  \$2,500,000 Billingual Education Fellowship Program Grant  \$3,000 Billingual Education Fellowship Program Grant  \$3,000 Neag Model Grant  \$2,500,000 The Stamford Project that Integrates Technology into Public Schools  \$200 The Stamford Project that Integrates Technology into Public Schools  \$200 S2M Gates Foundation Grant to Train School Administrators  \$1,500,000 The Humphrey Center for Marital and Family Therapy  \$30,000 S2M Gates Foundation Program  \$10,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$30,000 Center for Health Promotion Programs  \$40,000 Cooperative Extension Program  \$113,000 Center for Health Promotion Programs  \$40,000 Center for Health Promotion Programs  \$50,000 Cooperative Extension Program  \$113,000 Center for Health Promotion Programs  \$50,000 Cooperative Extension Program  \$113,000 Center for Health Promotion Programs  \$50,000 Cooperative Extension Program  \$113,000 Center for Health Promotion Programs  \$50,000 Center for	Asylum Hill Family Practice	\$1,200,000
Health Careers Discovery Program Saturday Academy Health Careers Discovery Program Summer Science Camp \$21,600 High School Mini Medical/Dental School Program \$1,200 High School Student Research Apprentice Program \$21,600 School-Based Care (6 Public Schools-\$1000/wk) \$216,000 Science Teacher Summer Fellowship Program \$21,600 Science Teacher Summer Fellowship Program \$21,600 The AHEC Program-Bridgeport \$303,100 The AHEC Program-Hordrod \$284,400 The AHEC Program-Horwich \$361,800 The AHEC Program-Torrington \$325,700 The Health Professions Partnership Initiative (HPPI) \$150,000 Professional Development Schools in Central and Eastern Connecticut Diversity in Teacher Education Grant \$5,000 GEAR-UP Grant with Public Schools in Hartford \$70,000 Gifted and Talented Grant \$2,500,000 Heag Model Grant \$25,000 Neag Model Grant \$25,000 The UCONN/UTC Professional Development Academy \$5,000 The UCONN/UTC Professional Development Academy \$5,000 Seam Stamford Project that Integrates Technology into Public Schools \$90,000 KIDS Newsletter, All Children Considered & Birth to Five \$36,000 Seb Humphrey Center for Marital and Family Therapy \$30,000 Sehool Readiness \$1,500,000 Rener for Health Promotion Program \$47,000 Center for Health Promotion Program \$47,000 Cooperative Extension Program \$5,407,536 Chemistry Olympiad \$5,407,536 Carduate Student Activities in Acute Care Setting \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 BRIDGE Program \$11,040 Suppling Program \$11,040	Burgdorf Health Center	\$1,800,000
Health Careers Discovery Program Summer Science Camp  High School Mini Medical/Dental School Program  \$1,200 High School Student Research Apprentice Program  \$21,600 School-Based Care (6 Public Schools\$1000/wk)  Science Teacher Summer Fellowship Program  \$21,600 Science Teacher Summer Fellowship Program  \$21,600 The AHEC ProgramBridgeport  \$303,100 The AHEC ProgramHartford  \$284,400 The AHEC ProgramHorwich  \$361,800 The AHEC ProgramNorwich  \$3561,800 The Health Professions Partnership Initiative (HPPI)  \$150,000 Professional Development Schools in Central and Eastern Connecticut  \$1,750,000 Diversity in Teacher Education Grant  \$5,000 Gifted and Talented Grant  \$114,000 Billingual Education Fellowship Program Grant  \$25,000 Reag Model Grant  \$25,000 The Stamford Project that Integrates Technology into Public Schools  \$2M Gates Foundation Grant to Train School Administrators  \$1,500,000 \$2M Gates Foundation Grant to Train School Administrators  \$1,500,000 School Readiness  Parent Education Program  \$23,000 Center for Health Promotion Programs  \$23,000 Comperative Extension Programs  \$118,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Comperative Extension Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$31,500 Center for Health Promotion Program  \$31,500 Center for Health Promotion Program  \$31,500 Center fo	Care to Medicaid Recipients (Dental)	\$1,575,000
Health Careers Discovery Program Summer Science Camp  High School Mini Medical/Dental School Program  \$1,200 High School Student Research Apprentice Program  \$21,600 School-Based Care (6 Public Schools\$1000/wk)  Science Teacher Summer Fellowship Program  \$21,600 Science Teacher Summer Fellowship Program  \$21,600 The AHEC ProgramBridgeport  \$303,100 The AHEC ProgramHartford  \$284,400 The AHEC ProgramHorwich  \$361,800 The AHEC ProgramNorwich  \$3561,800 The Health Professions Partnership Initiative (HPPI)  \$150,000 Professional Development Schools in Central and Eastern Connecticut  \$1,750,000 Diversity in Teacher Education Grant  \$5,000 Gifted and Talented Grant  \$114,000 Billingual Education Fellowship Program Grant  \$25,000 Reag Model Grant  \$25,000 The Stamford Project that Integrates Technology into Public Schools  \$2M Gates Foundation Grant to Train School Administrators  \$1,500,000 \$2M Gates Foundation Grant to Train School Administrators  \$1,500,000 School Readiness  Parent Education Program  \$23,000 Center for Health Promotion Programs  \$23,000 Comperative Extension Programs  \$118,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Comperative Extension Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$118,000 Center for Health Promotion Programs  \$23,000 Center for Health Promotion Programs  \$31,500 Center for Health Promotion Program  \$31,500 Center for Health Promotion Program  \$31,500 Center fo	Health Careers Discovery Program Saturday Academy	\$3,240
High School Mini Medical/Dental School Program   \$1,200   High School Student Research Apprentice Program   \$21,600   School-Based Care (6 Public Schools—\$1000/wk)   \$216,000   Science Teacher Summer Fellowship Program   \$21,600   The AHEC Program—Bridgeport   \$303,100   The AHEC Program—Hartford   \$284,400   The AHEC Program—Hartford   \$284,400   The AHEC Program—Norwich   \$361,800   The AHEC Program—Torrington   \$335,700   The Health Professions Partnership Initiative (HPPI)   \$150,000   Professional Development Schools in Central and Eastern Connecticut   \$1,750,000   Diversity in Teacher Education Grant   \$5,000   GEAR-UP Grant with Public Schools in Hartford   \$70,000   Gifted and Talented Grant   \$2,500,000   Billingual Education Fellowship Program Grant   \$25,000   Billingual Education Fellowship Program Grant   \$25,000   The Stamford Project that Integrates Technology into Public Schools   \$90,000   \$2M Gates Foundation Grant to Train School Administrators   \$1,500,000   KIDS Newsletter, All Children Considered & Birth to Five   \$36,000   School Readiness   \$160,000   School Readiness   \$160,000   Parent Education Program   \$130,000   School Readiness   \$160,000   Parent Education Program   \$130,000   Center for Health Promotion Programs   \$23,000   Center for Health Promotion Programs   \$130,000   Teenage Minority Business Program   \$118,000   Teenage Min		1
High School Student Research Apprentice Program  \$21,600 School-Based Care (6 Public Schools\$1000/wk) \$216,000 Science Teacher Summer Fellowship Program \$21,600 Science Teacher Summer Fellowship Program \$21,600 The AHEC ProgramBridgeport \$303,100 The AHEC ProgramHartford \$284,400 The AHEC ProgramNorwich \$361,800 The AHEC ProgramTorrington \$325,700 The Health Professions Partnership Initiative (HPPI) \$150,000 Professional Development Schools in Central and Eastern Connecticut \$1,750,000 Diversity in Teacher Education Grant \$5,000 GEAR-UP Grant with Public Schools in Hartford \$70,000 Gifted and Talented Grant \$2,500,000 Reag Model Grant \$25,000 Neag Model Grant \$25,000 The UCONN/UTC Professional Development Academy \$5,000 The Stamford Project that Integrates Technology into Public Schools \$90,000 \$2M Gates Foundation Grant to Train School Administrators \$1,500,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness \$1,500,000 Cheater for Health Promotion Programs \$2,500,000 Cheater for Health Promotion Programs \$1,500,000 Coutpatient Physical Threapy Program \$130,000 Coutpatient Physical Threapy Program \$130,000 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Surmer Engineering Camp \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$97,360 Sunder Engineering Camp \$97,360 Sunder Engineering Camp \$97,360 Sunder Engineering Camp		
School-Based Care (6 Public Schools\$1000/wk)         \$216,000           Science Teacher Summer Fellowship Program         \$21,600           The AHEC ProgramBridgeport         \$303,100           The AHEC ProgramHartford         \$284,400           The AHEC ProgramNorwich         \$361,800           The AHEC ProgramTorrington         \$325,700           The Health Professions Partnership Initiative (HPPI)         \$150,000           Professional Development Schools in Central and Eastern Connecticut         \$1,750,000           Diversity in Teacher Education Grant         \$5,000           GEAR-UP Grant with Public Schools in Hartford         \$70,000           Gifted and Talented Grant         \$2,500,000           Billingual Education Fellowship Program Grant         \$114,000           Neag Model Grant         \$25,000           The UCONN/UTC Professional Development Academy         \$5,000           The Stamford Project that Integrates Technology into Public Schools         \$90,000           \$2M Gates Foundation Grant to Train School Administrators         \$1,500,000           \$100 Sexual Edit Children Considered & Birth to Five         \$36,000           The Humphrey Center for Marital and Family Therapy         \$30,000           School Readiness         \$160,000           Parent Education Program         \$23,000 <td></td> <td></td>		
Science Teacher Summer Fellowship Program The AHEC ProgramBridgeport Sada, 100 The AHEC ProgramHartford Sada, 400 The AHEC ProgramHartford Sada, 400 The AHEC ProgramNorwich Sade, 800 The AHEC ProgramTorrington Sade, 800 The Health Professions Partnership Initiative (HPPI) Sade, 800 Professional Development Schools in Central and Eastern Connecticut Sade, 800 Diversity in Teacher Education Grant Sear-UP Grant with Public Schools in Hartford Sade, 800 Sa		
The AHEC ProgramBridgeport The AHEC ProgramHartford The AHEC ProgramHartford The AHEC ProgramNorwich The AHEC ProgramTorrington The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI) Professional Development Schools in Central and Eastern Connecticut The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI) Professional Development Schools in Central and Eastern Connecticut The AHEC Program Schools in Central and Eastern Connecticut The Usersity in Teacher Education Grant The Usersity in Teacher Education Frogram Grant The Usersity In Teacher Education Program Grant The Usersity In Teacher Education Development Academy The Stamford Project that Integrates Technology into Public Schools The Stamford Project that Integrates Technology into Public Schools The Stamford Project that Integrates Technology into Public Schools The Stamford Project that Integrates Technology into Public Schools The Humphrey Center for Marital and Family Therapy The Humphrey School Readiness The Humphrey Schoo	`	
The AHEC ProgramHartford The AHEC ProgramHorwich The AHEC ProgramNorwich The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI) Professional Development Schools in Central and Eastern Connecticut The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI) Professional Development Schools in Central and Eastern Connecticut The Ucant with Public Schools in Hartford Tild and Talented Grant The Ucant With Public Schools in Hartford The Ucant With Program Grant The Ucant With Program Grant The Ucant With Integrates Technology into Public Schools The Stamford Project that Integrates Technology into Public Schools The Stamford Project that Integrates Technology into Public Schools The Humphrey Center for Marital and Family Therapy School Readiness The Humphrey Center for Marital and Family Therapy School Readiness The Humphrey Center for Marital and Family Therapy School Readiness The Humphrey Center for Marital and Family Therapy School Readiness The Humphrey Center for Marital and Family Therapy School Readiness Street How Program Standon Teenage Minority Business Program Standon Teenage Minority		
The AHEC ProgramNorwich The AHEC ProgramTorrington The AHEC ProgramTorrington The Health Professions Partnership Initiative (HPPI) Professional Development Schools in Central and Eastern Connecticut Diversity in Teacher Education Grant GEAR-UP Grant with Public Schools in Hartford S70,000 Gifted and Talented Grant Bilingual Education Fellowship Program Grant Neag Model Grant The UCONN/UTC Professional Development Academy The Stamford Project that Integrates Technology into Public Schools \$2,500,000 \$2M Gates Foundation Grant to Train School Administrators KIDS Newsletter, All Children Considered & Birth to Five S36,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness School Readiness \$160,000 Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Cutpatient Physical Threapy Program Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Summer Engineering Camp \$7,360 Summer Engineering Camp \$7,360 Summer Engineering Camp \$7,360 Summer Engineering Camp		\$284,400
The Health Professions Partnership Initiative (HPPI)  Professional Development Schools in Central and Eastern Connecticut  \$1,750,000 Diversity in Teacher Education Grant  \$5,000 GEAR-UP Grant with Public Schools in Hartford  \$70,000 Gifted and Talented Grant Billingual Education Fellowship Program Grant  Neag Model Grant  The UCONN/UTC Professional Development Academy  The Stamford Project that Integrates Technology into Public Schools  \$25,000 \$2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  \$36,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness  \$47,000 Center for Health Promotion Programs  \$47,000 Cutpatient Physical Threapy Program  \$130,000 Teenage Minority Business Program  \$130,000 Teenage Minority Business Program  \$5,407,536 Chemistry Olympiad  \$4,800 Supplying Materials to the Nursing Career Center of CT  \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program  \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$111,040		\$361,800
Professional Development Schools in Central and Eastern Connecticut \$1,750,000 Diversity in Teacher Education Grant \$5,000 GEAR-UP Grant with Public Schools in Hartford \$70,000 Gifted and Talented Grant \$2,500,000 Billingual Education Fellowship Program Grant \$2,500,000 Neag Model Grant \$25,000 The UCONN/UTC Professional Development Academy \$5,000 The Stamford Project that Integrates Technology into Public Schools \$90,000 \$2M Gates Foundation Grant to Train School Administrators \$1,500,000 KIDS Newsletter, All Children Considered & Birth to Five \$36,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness \$160,000 Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$130,000 Teenage Minority Business Program \$118,000 Gooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers \$11,500 Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040	The AHEC ProgramTorrington	\$325,700
Diversity in Teacher Education Grant  GEAR-UP Grant with Public Schools in Hartford  Gifted and Talented Grant  S1,500,000  Bilingual Education Fellowship Program Grant  Neag Model Grant  The UCONN/UTC Professional Development Academy  The Stamford Project that Integrates Technology into Public Schools  S2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  The Humphrey Center for Marital and Family Therapy  School Readiness  Parent Education Program  Center for Health Promotion Programs  Center for Health Promotion Program  Cooperative Extension Program  Cooperative Extension Programs  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Street Law Program  Community Work  Summer Engineering Camp  S7,360  BRIDGE Program  \$110,000	The Health Professions Partnership Initiative (HPPI)	\$150,000
GEAR-UP Grant with Public Schools in Hartford  Gifted and Talented Grant  S1,500,000  Bilingual Education Fellowship Program Grant  Neag Model Grant  The UCONN/UTC Professional Development Academy  The Stamford Project that Integrates Technology into Public Schools  S2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  The Humphrey Center for Marital and Family Therapy  School Readiness  Parent Education Program  Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Synaccion  Synaccio	Professional Development Schools in Central and Eastern Connecticut	\$1,750,000
Gifted and Talented Grant  Bilingual Education Fellowship Program Grant  Neag Model Grant  The UCONN/UTC Professional Development Academy  The Stamford Project that Integrates Technology into Public Schools  \$25,000  The Stamford Project that Integrates Technology into Public Schools  \$2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  The Humphrey Center for Marital and Family Therapy  \$30,000  School Readiness  Parent Education Program  Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Coperative Extension Programs  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  \$4,800  Street Law Program  \$97,200  Community Work  \$2,253,600  Summer Engineering Camp  \$7,360  BRIDGE Program  \$11,040	Diversity in Teacher Education Grant	\$5,000
Bilingual Education Fellowship Program Grant  Neag Model Grant The UCONN/UTC Professional Development Academy The Stamford Project that Integrates Technology into Public Schools \$2M Gates Foundation Grant to Train School Administrators \$1,500,000 KIDS Newsletter, All Children Considered & Birth to Five \$36,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$110,040	GEAR-UP Grant with Public Schools in Hartford	\$70,000
Neag Model Grant The UCONN/UTC Professional Development Academy The Stamford Project that Integrates Technology into Public Schools \$2M Gates Foundation Grant to Train School Administrators \$1,500,000 KIDS Newsletter, All Children Considered & Birth to Five \$36,000 The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness \$160,000 Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040		\$2,500,000
The UCONN/UTC Professional Development Academy The Stamford Project that Integrates Technology into Public Schools \$90,000 \$2M Gates Foundation Grant to Train School Administrators \$1,500,000 KIDS Newsletter, All Children Considered & Birth to Five The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness Parent Education Program \$447,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad Supplying Materials to the Nursing Career Center of CT Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040		\$114,000
The Stamford Project that Integrates Technology into Public Schools  \$2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  The Humphrey Center for Marital and Family Therapy  \$30,000 School Readiness  Parent Education Program  Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Chemistry Olympiad  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$11,000  \$2,253,600  \$7,360  \$11,040		\$25,000
\$2M Gates Foundation Grant to Train School Administrators  KIDS Newsletter, All Children Considered & Birth to Five  The Humphrey Center for Marital and Family Therapy  \$30,000 School Readiness  Parent Education Program  Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Coperative Extension Programs  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$11,040		
KIDS Newsletter, All Children Considered & Birth to Five The Humphrey Center for Marital and Family Therapy \$30,000 School Readiness Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad Supplying Materials to the Nursing Career Center of CT Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program		
The Humphrey Center for Marital and Family Therapy  School Readiness Parent Education Program \$47,000 Center for Health Promotion Programs  Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360		
School Readiness \$160,000 Parent Education Program \$47,000 Center for Health Promotion Programs \$23,000 Outpatient Physical Threapy Program \$130,000 Teenage Minority Business Program \$118,000 Cooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers \$11,500 Street Law Program \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040	·	
Parent Education Program  Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Chemistry Olympiad  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$47,000 \$23,000 \$118,000 \$118,000 \$4,800 \$4,800 \$2,253,600 \$3,000 \$2,253,600 \$3,000 \$2,253,600 \$3,000 \$3,000 \$3,000 \$4,800 \$3,000 \$4,800 \$4,800 \$5,407,536 \$4,800 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536 \$5,407,536		
Center for Health Promotion Programs  Outpatient Physical Threapy Program  Teenage Minority Business Program  Cooperative Extension Programs  Chemistry Olympiad  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$23,000  \$118,000  \$4,800  \$4,800  \$2,253,600  \$7,360		
Outpatient Physical Threapy Program Teenage Minority Business Program Cooperative Extension Programs Sp.,407,536 Chemistry Olympiad Supplying Materials to the Nursing Career Center of CT Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting Street Law Program Community Work Summer Engineering Camp BRIDGE Program \$130,000 \$5,407,536 \$4,800 \$4,800 \$2,253,600 \$2,253,600 \$2,253,600 \$11,040		
Teenage Minority Business Program  Cooperative Extension Programs  Chemistry Olympiad  Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$118,000  \$4,800  \$4,800  \$2,253,600  \$7,360	· · · · · · · · · · · · · · · · · · ·	
Cooperative Extension Programs \$5,407,536 Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers \$11,500 Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040		
Chemistry Olympiad \$4,800 Supplying Materials to the Nursing Career Center of CT \$3,000 Graduate Students' Involvement in Helping Homeless and Migrant Workers \$11,500 Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040		
Supplying Materials to the Nursing Career Center of CT  Graduate Students' Involvement in Helping Homeless and Migrant Workers  Undergraduate Student Activities in Acute Care Setting  Street Law Program  Community Work  Summer Engineering Camp  BRIDGE Program  \$3,000 \$4,800 \$4,800 \$2,253,600 \$2,253,600 \$2,253,600 \$11,040		
Graduate Students' Involvement in Helping Homeless and Migrant Workers Undergraduate Student Activities in Acute Care Setting Street Law Program Community Work Summer Engineering Camp BRIDGE Program \$11,500 \$4,800 \$2,253,600 \$2,253,600 \$7,360		
Undergraduate Student Activities in Acute Care Setting \$4,800 Street Law Program \$97,200 Community Work \$2,253,600 Summer Engineering Camp \$7,360 BRIDGE Program \$11,040		
Street Law Program         \$97,200           Community Work         \$2,253,600           Summer Engineering Camp         \$7,360           BRIDGE Program         \$11,040		
Community Work\$2,253,600Summer Engineering Camp\$7,360BRIDGE Program\$11,040		
Summer Engineering Camp \$7,360 BRIDGE Program \$11,040	ů	
BRIDGE Program \$11,040	·	
	Grand Total	\$20,689,076

We estimate that total value of these selected programs is more than \$20 million. Where available, we report the total amount of money spent on the services and personnel. The amount reported in Table 11 does not truly reflect the value of the



benefits UConn's programs and services confer on society, because we value them at their cost, which we assume must be their minimum benefit.

Assumptions. To model the amenity value of the region due to UConn, we use the value of selected community service programs. Furthermore, we include in our estimates total research, gifts (a measure of willingness to pay), contracts, and investment income. We model a total of \$147 million in equivalent amenity value attributable to the presence of UConn. Table 12 presents the county breakdown of amenity values associated with UConn.

Table 12: UConn A	menity Value
Fairfield	\$6,471,038
Hartford	\$73,148,472
Litchfield	\$2,784,284
Middlesex	\$14,101,830
New Haven	\$5,639,354
New London	\$3,973,046
Tolland	\$26,569,828
Windham	\$14,574,283
Total	<i>\$147,262,135</i>

According to Table 12, the University of Connecticut helps increase the quality of life across the state, though Hartford, Tolland, Middlesex, and Windham counties are the largest beneficiaries.

#### 9: UConn as Innovator

The research impact of universities is important for the health and growth of the regional economy. Both labor and capital productivity increase and technology change occurs because of university research activities and new ideas the university graduates bring to the workplace. Furthermore, research universities attract a significant amount of research dollars from out of state sources, performing as an export industry. These dollars, in turn injected into the local economy, buy goods and services and help to educate a highly innovative workforce. In FY01, external funding (excluding financial aid) was \$147.5 million. Federal support was 64.7% of this amount (\$95.4 million). About 90% of this federal money flowed into the regional economy.



In order to asses the research impact of UConn, we need an extensive survey of companies in the region that benefit from the technologies, patents, and innovations originated by UConn. Unfortunately, this worthwhile effort is beyond the scope of this study. When we look at the overall profile of UConn, we see increasing emphasis on the commercialization of University innovations.<sup>44</sup> Table 13 presents a three-year trend of research-related activities of UConn.

Table 13: UConn: Patents and Inventions								
FY 99 FY 00 FY 01								
Invention Disclosures	50	72	64					
New U.S. Patent Approvals	26	26	25					
Licenses Executed	12	18	12					
Licences Producing Income	10	13	16					
Licensing Revenue	\$481K	\$426K	\$467K					
Start Ups	2	0	2					

As Table 13 indicates, there were 16 licenses producing income in FY01 and two start-up companies. Without an extensive survey of those companies involved in licensing agreements with UConn, it is difficult to capture the dynamic economic impact of their research.

Assumptions. We received information about eight companies whose operations are wholly based on UConn-developed technologies. We estimate that these companies employ 26 people in the biotechnology sector. We model those companies receiving research dollars from UConn as an increase in their total output by the amount of money they receive. We then assign a REMI sector to each of these recipients. We report our estimates and geographical distribution in Table 14.

According to Table 14, over \$32 million research money reaches the various institutions and/or companies across Connecticut in the medical sector. More than \$31 million of this amount goes to companies and institutions in Hartford County. The second largest amount (over \$2 million) flows to educational institutions, primarily to Yale University in New Haven County.

<sup>&</sup>lt;sup>44</sup> Recently, the University of Connecticut Research and Development Corporation has been revitalized to help UConn technologies commercialize.



\_

		Table 14: UC	onn Resear	ch Money S	Sub-recipient	s in FY 01			
Sectors	Fairfield	Hartford	Litchfield	Middlesex	New Haven	New London	Tolland	Windham	Industry Total
Amusement and Recreation	\$57,554				\$3,000	\$5,000			\$65,554
Chemical	\$2,500								\$2,500
Education	\$440,524	\$133,051		\$13,425	\$1,795,152			\$26,500	\$2,408,652
Gas		\$7,260							\$7,260
Insurance	\$32,386								\$32,386
Machinery					\$100,450				\$100,450
Medical	\$3,750	\$31,326,838	\$375,347	\$29,613	\$23,445	\$446,822		\$36,228	\$32,242,042
Misc. Business Services		\$421,900							\$421,900
Misc. Professional Services		\$289,116			\$40,000	\$31,430		\$9,500	\$370,046
Non-Profit	\$5,681	\$118,976		\$138,654	\$29,366		\$3,491		\$296,168
Real Estate		\$36,465							\$36,465
State and Local		\$20,476							\$20,476
County Total	\$542,395	\$32,354,082	\$375,347	\$181,692	\$1,991,413	\$483,252	\$3,491	\$72,228	\$36,003,899

## 10: The University's Impact on Income

We assume that in the absence of UConn, its state appropriation will cease. Therefore, we return the appropriation to taxpayers as an increase in their disposable income. We use the county population share of total state population to allocate the return. Table 15 presents the population-weighted distribution of state contributions of various forms to UConn.

Table 15: Increase in E	Disposable Income of Residents							
(Total State Contribution of Various Forms in FY 2001)								
County	Total Amount							
Fairfield	\$87,853,326							
Hartford	\$85,326,528							
Litchfield	\$18,136,029							
Middlesex	\$15,436,225							
New Haven	\$82,024,190							
New London	\$25,790,385							
Tolland	\$13,574,075							
Windham	\$10,859,240							
Total	\$339,000,000							

Out of the total appropriation of \$339 million, more than \$87 million accrues to Fairfield County. Hartford and New Haven counties follow Fairfield County in terms of the total amount refunded (\$85 and \$82 million, respectively). The remaining five counties share a total refund of \$83 million.



#### **V: Model Assumption Summaries**

Our assumptions regarding the economic impact categories are conservative. The research impact of UConn is specifically underestimated because of the lack of an extensive survey of the companies whose raison d'être' depends on UConn research and innovations. Below, we present a summary of all assumptions guiding our study. Unless otherwise noted, all figures are for FY2001.

- ▶ \$251 million is spent for goods and services in Connecticut by UConn
- ➤ 10,307 employees (FTE) reside in Connecticut
- ➤ A UConn wage bill adjustment of \$309 million higher than state *aggregate* average annual income in the education, medical, miscellaneous business and professional services sectors than REMI assumes as its baseline
- ➤ \$134 million in student expenditure injected into the economy
- ➤ 17,218 full-time students represent an increase in the college age population of the region that has a small impact on the labor supply of the region
- ➤ 2,783 UConn graduates represent a flow of human capital into the state economy in various occupations
- ➤ 165,949 (out of over 1 million total) net new visitors are attracted to the facilities at UConn. This means over \$10 million net new spending in the region
- Professional development programs increase productivity of the workforce in selected sectors
- ➤ 1,973 UConn retirees residing in Connecticut inject an more than \$46 million into the economy
- ➤ \$147.3 million in amenity value increases the quality of life in the region
- ➤ 26 people employed in spin-off companies associated with UConn
- ➤ \$36 million research and development money subcontracted to various companies and institutions across the state
- ➤ \$339 million state support in various forms (primary appropriation, fringe benefits, grants and contracts) returned to taxpayers as an increase in their disposable income



#### VI: Dynamic Economic Impact Analysis Results

The University of Connecticut is an important contributor to the state's economy. To measure the economic impact of UConn using the REMI model, we remove it from the baseline economy and analyze how this affects the state and local economies. These effects show the significant economic and social contribution UConn is making now to Connecticut. UConn impacts the entire state through purchases, student expenditures, health care, occupational supply, public services and research activity that occur in Connecticut.

In this section, we report the output from the Input/Output model REMI for eight counties as well as for Connecticut as a whole. This section is organized as follows: we first present the fiscal impact of the continuing operations of UConn; second, we analyze output and personal income. After looking at the employment and population dynamics, we conclude with a discussion of a cost-benefit analysis of the state contribution to UConn.

Tables 16, 17, 18, and 20 show the combined direct and spillover effects on several key variables. Although these results obtain by removing UConn from the baseline economy, we report these findings in positive terms to show the economic impact of the continuing operations of UConn on the State of Connecticut. We use a time horizon of 34 years, 2002-2035. The "peak value" of a variable indicates the maximum value of that variable obtained in the study period. The "long-run impact" of a variable indicates the value of that variable in the terminal year 2035. The baseline forecast already contains UConn, so changes from that baseline measure UConn's impact. Expressed this way, these peak and terminal values are a useful summary of the overall impact. The latter represent values of economic and fiscal variables after the economy has fully adjusted the loss (counterfactually) or to the ongoing operations of UConn.

In calculating the results displayed in Tables 16, 17, 18 and 20, we removed UConn from the baseline economy but kept the government budget approximately balanced by redistributing the \$339 million annual state (gross as above) appropriation back to state residents in the form of a personal income tax cut.

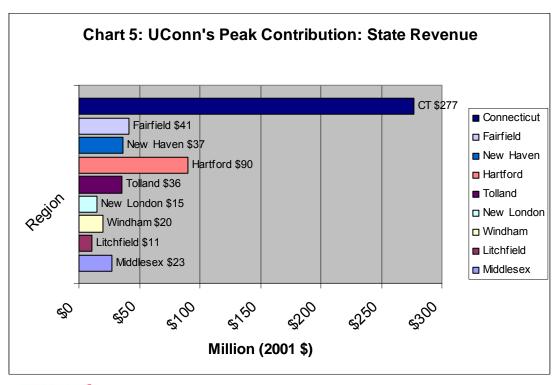


### 1. Fiscal Impact

The University of Connecticut is an on-going operation that receives an annual state appropriation in several forms. The counterfactual removal of UConn would lead to a decline in general economic activity. In particular, Gross State Product (GSP) and personal income would fall, resulting in a decline in income, sales, use, and other taxes in the state. In addition, the fall of employment and population leads to a decrease in the value of local property and, thus, local property taxes.

In addition to these basic tax changes, this impact changes government spending. Induced spending is the first component of such spending. As people move into the region and there is more economic activity, the government needs to spend more to maintain the same level of service per person as in the past. This adjustment occurs endogenously or within the model based on current and projected levels of government spending.

New state tax revenue depends on general economic activity. The increase in GSP and personal income (that accompany the operation of UConn) generates an increase in new tax collections through the channels discussed above across the state. New state taxes increase \$277 million in Connecticut at their peak. Chart 5 presents the county impact of UConn in terms of peak increases in state tax revenue.

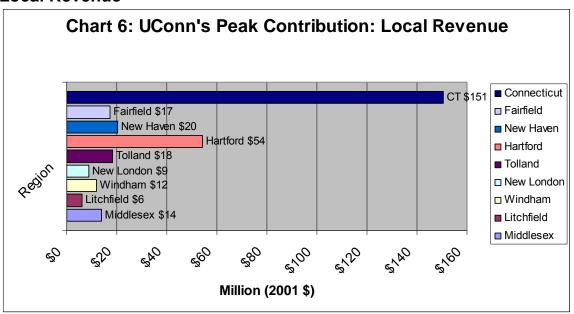




According to Chart 5, Hartford County is the highest contributor to state tax revenue change due to UConn continuing operations. An increase of \$90 million in Hartford County is primarily due to the operations of the Health Center, Law School, School of Social Work, and the West Hartford (UConn) Campus. Following Hartford County is Fairfield County with \$41 million, New Haven County with \$37 million, and Tolland County with \$36 million in new state taxes raised. The lowest state tax increase takes place in Litchfield County with \$11 million.

Local tax revenues rise as a consequence of UConn's continuing operations. Changes in local taxes stem from changes in the population in the region. As people arrive, they require housing and thus revenue from property taxes increase. They demand more public services as well and local expenditures increase. Chart 6 presents the changes in local taxes due to the ongoing operations of UConn.

#### **Local Revenue**



In Connecticut, local governments collect \$151 million more in taxes due to the continuing operations of UConn. Hartford County benefits most from property tax revenue increases with \$54 million. The local tax revenue increase in New Haven County is \$20 million, in Tolland County \$18 million, and in Fairfield County \$17 million. The smallest increase occurs in Litchfield County with about \$6 million.



Table 15 presents the detailed fiscal impact of UConn, which reports peak changes in fiscal variables as well as their terminal values.

Table 15: UConn and 0	Table 15: UConn and Changes in State and Local Revenues and Expenditures (Million 2001 \$)												
		Connec	ticut		Hartf	ord		Faiı	field				
	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact				
State Revenues at State Average Rates	\$277	2035	\$277	\$90	2035	\$90	\$41	2035	\$41				
Local Revenues at Adjusted State Average Rates	\$151	2035	\$151	\$54	2035	,	\$17		\$17				
State Expenditures at State Average Rates	\$78		\$78	\$23	2035	, -		2010	\$6				
Local Expenditures at Adjusted State Average Rates	\$180	2035	\$180	\$62	2035	·		2010	\$16				
		Tolla	nd		Windl	nam		New	Haven				
	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact				
State Revenues at State Average Rates	\$36	2035	\$36				\$37		\$37				
Local Revenues at Adjusted State Average Rates	\$18	2035	\$18	\$12	2035	\$12	\$20	2035	\$20				
State Expenditures at State Average Rates	\$12	2035	\$12	\$7	2035	\$7	\$11	2014	\$10				
Local Expenditures at Adjusted State Average Rates	\$24	2035	\$24	\$15	2035	\$15	\$26	2014	\$23				
		New Lo	ndon		Litchf	ield		Mida	llesex				
	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact	Peak	Year	Long-Run Impact				
State Revenues at State Average Rates	\$15	2035	\$15	\$11	2035	\$11	\$27	2035	\$27				
Local Revenues at Adjusted State Average Rates	\$9	2035	\$9	\$6	2035	\$6	\$14	2035	\$14				
State Expenditures at State Average Rates	\$4	2014	\$4	\$3	2035	\$3	\$12	2022	\$12				
Local Expenditures at Adjusted State Average Rates	\$9	2014	\$9	\$7	2035	\$7	\$25	2023	\$25				

The fiscal analysis suggests that Connecticut and local economies benefit greatly from the existence of UConn; it is moreover an important source of local and state tax revenue.

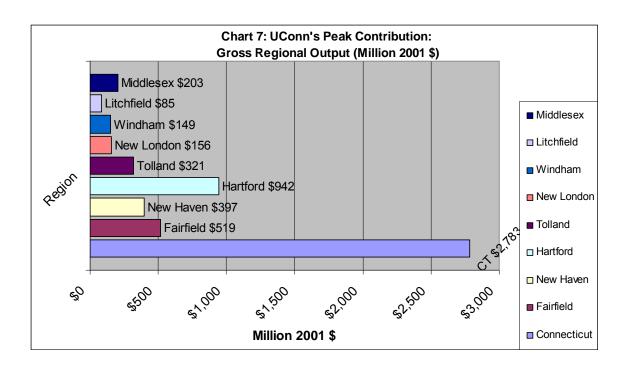
## 2: Output Impact

We report two crucial economic impact categories in this section: Gross State Product and Personal Income. Gross State Product (GSP) is the nominal dollar value of final goods and services produced over a period of one year using a value-added approach, where the value added at each stage of the production process aggregates to



produce the final value. Calculations exclude intermediate goods to avoid double counting.

The results show UConn makes a significant contribution to Gross State Product (GSP). As Chart 7 indicates, the peak change in GSP is \$2.783 billion in 2001 dollars for Connecticut, which makes UConn one of the major economic forces in the Connecticut economy. The peak change in GSP represents about 1.5% of Connecticut's \$140 billion economy. Moreover, relative to all two-digit industries in Connecticut (70 in number), UConn's impact, in terms of its related GSP change, ranks 25<sup>th</sup> relative to the total size of each industry's value added.



Among the counties, the largest beneficiary of UConn in terms of peak gross regional product is Hartford county with \$942 million. Next follows Fairfield with \$519 million, New Haven with \$397 million, Tolland with \$321 million and Middlesex with \$203 million. Windham and New London counties benefit by more than \$140 million; Litchfield County benefit as well with more than \$80 million. UConn's continuing operations creates a large impact on Gross Regional Product throughout the forecast period.



UConn dramatically affects personal income throughout the state. Chart 8 shows the personal income impact for the state and its counties. The values represent peak changes in personal income due to the continuing operations of UConn.

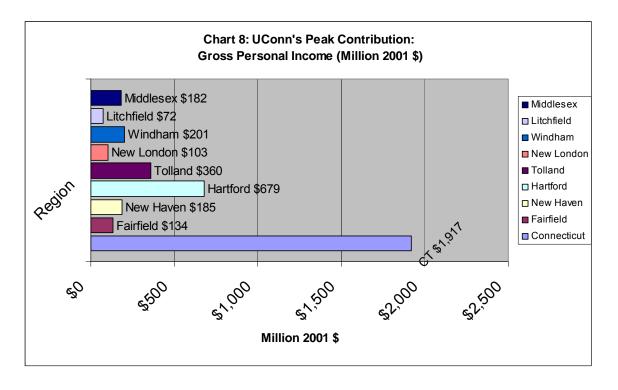


Chart 8 is particularly revealing as it shows a \$1.917 billion change in personal income throughout the state. Increasing personal income translates into more economic activities and increased local and state revenues from income taxes. Regionally, Hartford County's share is a prominent one with a \$679 million increase in personal income. With a \$360 million increase in personal income, Tolland County follows Hartford, while the other countries experience increases in personal income ranging from \$72 million in Litchfield, \$103 million in Litchfield, \$134 million in Fairfield, \$182 million in Middlesex, \$185 million in New Haven to \$201 million in Windham County.

Table 16 presents a detailed summary of Gross Regional (and State) Product by county. We include the peak change in output and personal income as well as the long-run impact values. The time horizon for these calculations is 2002 through 2035.



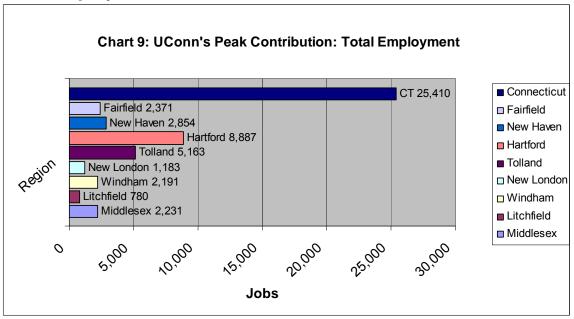
Table 16: U	JConn a	nd Chang	es in Outpu	t and Pe	ersonal I	ncome (	Million	<b>2001 \$</b> )		
		Connecti	cut		Hartford	1	Fairfield			
	Peak	Year	Long-Run Impact	Peak	Year	Long- Run Impact	Peak	Year	Long-Run Impact	
Gross Regional Product (Million 2001 \$) Gross Personal Income	\$2,783	2035	\$2,783	\$942	2035	\$942	\$519	2035	\$519	
(Million 2001 \$) Real Disposable	\$1,917	2035	\$1,917	\$679	2035	\$679	\$134	2035	\$134	
Personal Income (Million 2001 \$)	\$2,077	2035	\$2,077	\$609	2035	\$609	\$280	2035	\$280	
		Tolland	1	V	Vindhar	n		New Ha	ven	
	Peak	Year	Long-Run Impact	Peak	Year	Long- Run Impact	Peak	Year	Long-Run Impact	
Gross Regional Product (Million 2001 \$)	\$321	2035	\$321	\$149	2035	\$149	\$397	2035	\$397	
Gross Personal Income (Million 2001 \$)	\$360	2035	\$360	\$201	2035	\$201	\$185	2035	\$185	
Real Disposable Personal Income (Million 2001 \$)	\$298	2035	\$298	\$169	2035	\$169	\$289	2035	\$289	
		New Lond	don	L	itchfiel	d		Middles	sex	
	Peak	Year	Long-Run Impact	Peak	Year	Long- Run Impact	Peak	Year	Long-Run Impact	
Gross Regional Product (Million 2001 \$)	\$156	2035	\$156	\$85	2035			2035	\$203	
Gross Personal Income (Million 2001 \$)	\$103	2035	\$103	\$72	2035	\$72	\$182	2035	\$182	
Real Disposable Personal Income (Million 2001 \$)	\$126	2035	\$126	\$95	2035	\$95	\$200	2035	\$200	

## **3: Employment and Population Impact**

In addition to GSP and personal income, the University of Connecticut creates a significant amount of employment across the state. The REMI model assumes that changes in employment levels affect wages. These changes in wages affect migration and labor supply, which in turn affect employment levels. Chart 9 demonstrates total jobs created due to the continuing operations of UConn.



## Total Employment

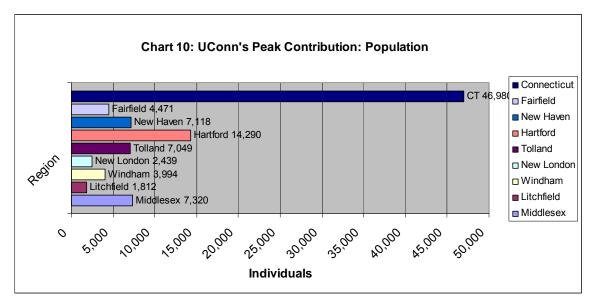


The total statewide employment impact of UConn is 25,410 jobs, which accounts for about 1.3% of Connecticut's total non-farm employment. Of these new jobs, 8,887 are in Hartford County. Combined with the \$2.783 billion increase in GSP, employment of this magnitude contributes to stability and vitality of the state and its local economies. Tolland County with 5,163 new jobs benefits second most from UConn's employment impact. The other counties' shares range from 780 jobs created in Litchfield to 2,854 new jobs in New Haven County.

Another impact of UConn is on population. The amenity value that UConn adds to the state—through services such as education, research, athletic events, public education, fine arts, diagnostic health screening, and even free health care—makes Connecticut relatively more attractive and encourages in-migration. Although we recognize that our estimate of the amenity or non-pecuniary value of UConn is low, even this amount has a considerable effect on the economy and population level. Furthermore, employment opportunities and other economic factors affected by UConn's presence attract in-migrants. These effects combine to increase new population by 46,980 in the state. As discussed previously, we assume that the UConn generates a putative increase in highly skilled labor and population aged 20-34. This is noteworthy as an aging population and loss of college age students to neighboring states has been a particular



concern for Connecticut in recent years. The population impact chart (Chart 10) below shows the increase in population by county.



According to Chart 10, four counties experience the largest peak population increase: Hartford with 14,290 people, Middlesex with 7,320 people, New Haven with 7,118, and Tolland with 7,049 people. The increase in population in the other counties ranges from 1,812 people in Litchfield to 4,471 people in Fairfield County. Table 17 presents total employment, private non-farm employment, and population changes by county and the entire state.

To analyze Table 17 briefly, we see slight differences between total jobs and private non-farm employment. We assume that this difference represents change in public sector employment due to UConn's operations. In total, 2860 new public sector jobs result from UConn's continuing operations in the entire state. Regionally, these new public sector jobs locate in Hartford County with 773 public sector jobs, Middlesex County with 401 public sector jobs, New Haven County with 297 public sector jobs, Tolland County with 227 public sector jobs, Fairfield County with 134 public sector jobs, New London County with 115 public sector jobs, Litchfield County with 76 public sector jobs, and Windham County with 65 public sector jobs. Table 17 reports the peak change in jobs and population and their long-run change.



Table 17	Table 17: UConn and Changes in Jobs and Population (Unit)										
	С	onne	cticut		Hartford			Fairfield			
			Long-Run	Long-Run		Long-Run			Long-Run		
	Peak	Year	Impact	Peak	Year	Impact	Peak	Year	Impact		
Population (Individuals)	46980	2014	42260	14290	2010	12670	4471	2010	3073		
Employment (Jobs)	25410	2035	25410	8887	2024	8833	2371	2025	2337		
Non-Farm Employment (Jobs)	22550	2030	22530	8114	2002	7888	2237	2025	2192		
		Tolla	nd		Windl	nam		New <i>F</i>	laven		
		Long-Run			Long-Run				Long-Run		
	Peak	Year	Impact	Peak	Year	Impact	Peak	Year	Impact		
Population (Individuals)	7049	2017	6833	3994	2015	3791	7118	2014	5375		
Employment (Jobs)	5163	2003	5139	2191	2002	2155	2854	2024	2751		
Non-Farm Employment (Jobs)	4936	2002	4455	2126	2002	1924	2557	2025	2467		
	N	ew Lo	ndon		Litchf	ield		Midd	lesex		
			Long-Run			Long-Run			Long-Run		
	Peak			Peak	Year	Impact	Peak	Year	Impact		
Population (Individuals)	2439 2014 2013		1812	2035	1812	7320	2019	6688			
Employment (Jobs)	1183 2035 1183		780	2035	780	2231	2035	2231			
Non-Farm Employment (Jobs)	1068	2024	1066	704	2035	704	1830	2035	1830		

## VII: Cost-Benefit Analysis and Summary of Findings

One must realize that the state's contribution leverages \$650 million in private and federal money. It is the total revenue (\$989 million), public and private, that creates UConn's total impact, however, we detail the benefit-cost ratios based solely on the state's contribution relative to the total impact. Does Connecticut benefit from channeling taxpayers' money to UConn? Table 18 answers this important question. Total state support for UConn in FY 2001 in various forms totaled \$339 million. This public support generates \$277 million in peak new tax revenues for Connecticut. This means for every dollar of state contribution to UConn, state tax revenues increase \$0.82.

In terms of Gross State Product (GSP), the benefit is significant. For every dollar

Table 18: Cost-Benefit Analysis of the State Support for UConn							
Categories	Ratios	State Support (\$339 million)					
Increase in State Tax Revenue	0.82	For every \$1 spent for UConn					
Increase in Gross State Product	8.21	For every \$1 spent for UConn					
Increase in Gross Personal Income	5.65	For every \$1 spent for UConn					
Job Creation	1	For every \$13341 spent for UConn					
Federal Research Money	\$0.28	For every \$1 spent for UConn					

spent on UConn, GSP increases \$8.21. This is indeed a significant payback to state investment in UConn. Similarly, for every taxpayer's dollar of support, their personal income increases \$5.65. As the results indicate, the rate of return to the investment in



'human capital' is considerably higher than other forms of investment (e.g., stock market, bonds, and money market funds) for taxpayers and the state.

The economic benefits extend to significant job creation: each \$13,341 of state investment in UConn creates one job, primarily at the college level or higher. Furthermore, we emphasize that every dollar of state contribution to UConn attracts \$0.28 federal dollars to Connecticut for research purposes.

Table 19 summarizes the cost-benefit analysis of state support for fourteen universities. According to Table 19, every dollar of state support to universities generates about \$7 on average in output (GRP) in their communities. The magnitude of this amount ranges from \$3 for every dollar invested in the University of Hawaii to \$11 in the Colorado University System and the University of Illinois at Urbana-Champaign. Considering the fact that Colorado State University is selected as a peer for the University of Connecticut, our estimate of \$8 increase in GSP per state dollar invested and 25,410 total employment is conservative (the same numbers for the Colorado University System are \$11 and 58,000, respectively).

We emphasize, though, that it is difficult to compare the numbers in Table 19 because as indicated in Table 1, the methodology, scope and assumptions of each study are different and so are the results. Keeping this in mind, we can glean useful information from Table 19 to put our study and findings in perspective.



Table 19: Findings from the Other Economic	c Impact Studies and UConn	
University	Output Per \$1State Support	Employment Impact
Arizona State University	7	21530
University of Arizona	6	19139
Colorado University System	11	58000
University of Hawaii	3	29058
University of Illinois at Urbana-Champaign	11	114352
Purdue University	4	22000
Iowa State University	5	22702
University of Massachusetts at Amherst	4	15552
University of Nebraska System	9	30310
Ohio State University	4	33683
University of Pittsburgh	6	26069
University of South Carolina	8	22341
West Virginia University	5	17728
The University of Connecticut	8	25410

Note: The purpose of this table is to give an idea about the contribution of each institution to their communities. It does not aim to compare these universities with each because of the large variation in the scope of each university's impact analysis. Figures for the Ouput Per Dollar State Support are rounded.

Source: Our own analysis and National Association of State Universities and Land-Grant Colleges, Shaping the Future: The Economic Impact of Public Universities, (Washington, DC: Office of Public Affairs, 2001).

To conclude, UConn contributes to Connecticut and its local economies to a great extent. Considering the economic output, personal income, and employment impacts, we argue that UConn is a backbone of the economic stability in the region. Investing in UConn is a worthy effort that will shape the future of Connecticut and its local communities. The University of Connecticut is an agglomeration of institutions spread across Connecticut that provides goods and services ranging from entertainment, sports, fine arts, community programs and services, education, retail operations to research. These activities create far-reaching socio-economic and political impact that few institutions have. Table 20 summarizes key findings.



Table 20	Table 20: Summary of Findings: UConn's Peak Contribution to the Economy										
	Connecticut	Fairfield	New Haven	Hartford	Tolland	New London	Windham	Litchfield	Middlesex		
Gross Regional Product (Million											
2001 \$)	\$2,783	\$519	\$397	\$942	\$321	\$156	\$149	\$85	\$203		
Gross Personal Income (Million											
2001 \$)	\$1,917	\$134	\$185	\$679	\$360	\$103	\$201	\$72	\$182		
Real Disposable Personal	•••	***	***		***	0.400		•••	***		
Income (Million 2001 \$)	\$2,077	\$280		_							
Population (Individuals)	46,980	4,471									
Employment (Jobs)	25,410	2,371	2,854	8,887	5,163	1,183	2,191	780	2,231		
Non-Farm Employment (Jobs)	22,550	2,237	2,557	8,114	4,936	1,068	2,126	704	1,830		
Disposable Personal Income											
(Million 2001 \$)	\$1,868	\$192	\$226	\$620	\$308	\$107	\$171	\$76	\$167		
State Revenues at State											
Average Rates (Mil. 2001 \$)	\$277	\$41	\$37	\$90	\$36	\$15	\$20	\$11	\$27		
Local Revenues at Adjusted											
State Average Rt. (Mil. 2001 \$)	\$151	\$17	\$20	\$54	\$18	\$9	\$12	\$6	\$14		
State Expenditures at State	070		0.1.1		040				040		
Average Rates (Mil. 2001 \$)	\$78	\$7	\$11	\$23	\$12	\$4	\$7	\$3	\$12		
Local Expenditures at Adjusted State Average Rt. (Mil. 2001 \$)	¢100	\$19	\$26	\$62	\$24	\$9	\$15	\$7	\$25		
State Average INt. (IVIII. 2001 \$)	\$180	\$19	\$20	\$6∠	<b>\$24</b>	\$9	\$15	\$7	\$25		



# Appendix I

UConn Economic Impact by Senate District: Selected Input Variables and Gross Regional Product (GRP)



	UC	Conn Econom	nic Impact by Sen	ate District: Sele	ected Input \	/ariables and Gross	Regional Produ	uct (GRP)	
			Number of				Ţ.	1	
Senate		Number of	Employees		Number of				
District	Town	Alumni	(FTE)	Payroll	Retirees	Retiree Benefits	Procurement	Change in GRP	Amenity Share
1	Hartford	49	802	\$7,755,473	10	\$200,175	\$21,502,796	\$238,507,287	\$12,620,587
	Wethersfield	13		\$592,418		\$68,223	\$358,182	. , ,	
1 Total		62	814	\$8,347,891	14	\$268,398	\$21,860,978		
2	Hartford	49	802	\$7,755,473	10	\$200,175	\$21,502,796		\$12,620,587
	Bloomfield	4	39	\$2,372,963	10	\$254,331	\$2,972,179		\$1,744,454
2 Total	Windsor	19 71	0 841	\$795,899 \$10,924,335	3 22	\$31,820 \$486,326	\$3,281,479 \$27,756,453	. , ,	\$1,925,991 \$16,291,032
	East Hartford	8	35	\$3,956,687	8	\$77,903	\$1,574,903	\$17,468,696	\$924,354
Ĭ	East Windsor	0	47	\$941.047	٥	\$0	\$205,585	\$2,280,334	\$120,664
	South Windsor	30	14	\$4,807,893		\$188,191	\$637,286	. , , ,	
	Ellington	11	0	\$1,644,383	5	\$120,255	\$64,453		\$37,829
3 Total		49	96	\$11,350,010	19	\$386,349	\$2,482,226		\$1,456,887
4	Bolton	11	64	\$1,655,478	7	\$180,805	\$46,741	\$518,449	\$27,434
	Glastonbury	98	283	\$9,549,037		\$240,747	\$2,165,503		
	Hebron	8	13	\$1,020,155	2	\$13,320	\$57,734	\$640,377	\$33,885
	Manchester	38	40	\$12,760,761	26	\$702,558	\$1,235,591	\$13,705,075	
4 Total	Describe out a se	154	400	\$24,985,431	44	\$1,137,430	\$3,505,568		
5	Burlington	11 124	79 349	\$5,203,689	0	\$0 \$112.008	\$44,827	\$497,217	\$26,310 \$33,589,592
	Farmington West Hartford	191	153	\$16,309,412 \$11,272,836		\$112,098 \$956,374	\$57,229,521 \$2,999,720	\$634,785,268 \$33,272,652	
	Bloomfield	4	39	\$2,372,963	10	\$254,331	\$2,972,179	\$32,967,164	
5 Total	2.501111010	330	620	\$35,158,900		\$1,322,803	\$63,246,247	\$701,522,301	\$37,120,975
	Berlin	8	26	\$1,339,012	3	\$36,625	\$736,213	\$8,166,010	\$432,104
	New Britain	90	39	\$10,711,760	2	\$11,308	\$3,063,341	\$33,978,333	
6 Total		98	65	\$12,050,772		\$47,933	\$3,799,554	\$42,144,343	\$2,230,063
7	Enfield	26	9	\$3,091,253		\$72,424	\$1,881,047	\$20,864,427	\$1,104,039
	Somers	23	133	\$1,574,078		\$89,754	\$29,333		
	Suffield	23	294	\$1,845,644	3	\$36,093	\$70,422		\$41,333
	Windsor Locks	0	8	\$207,533	2	\$17,412	\$64,013	\$710,030	
7 Total	Windsor	19	0	\$795,899	3 14	\$31,820	\$3,281,479	\$36,397,904	\$1,925,991
7 Total 8	AVON	90 105	444 161	\$7,514,407 \$14,760,481	5	\$247,503 \$231,264	\$5,326,294 \$7,502,251	\$59,078,833 \$83,214,370	\$3,126,150 \$4,403,279
ľ	Barkhamsted	23	41	\$575,135		\$51,971	\$7,302,231 \$7,291	\$80,876	
	Canton	11	50	\$2,939,990		\$6,829	\$65,181	\$722,984	\$38,257
	Colebrook	0	2	\$91,209		\$0	\$860		
	East Granby	4	1	\$757,739		\$7,092	\$56,322	\$624,722	\$33,057
	Granby	15	4	\$4,631,124	2	\$114,029	\$41,731	\$462,876	\$24,493
	Hartland	0	86	\$397	0	\$0	\$0	\$0	
	New Hartford	8		\$1,282,566		\$0	\$18,373	\$203,797	\$10,784
	Norfolk	0	99	\$430,490	2	\$118,590	\$4,607	\$51,102	\$2,704
	Simsbury	41 0	102	\$7,842,480		\$151,801	\$360,287	\$3,996,271	\$211,462
	Winchester Harwington	6	30 0	\$343,665 \$769,588		\$0 \$0	\$625 \$9,674	\$6,934 \$107,304	\$367 \$5,678
	Plymouth	0		\$137,328		\$0 \$0	\$9,074 \$68	\$707,304	
8 Total	i iyiiloddi	212	593	\$34,562,192	16	\$681,577	\$8,067,271	\$89,481,526	\$4,734,905
9	Cromwell	4	12	\$2,349,980	1	\$28,817	\$128,243	\$1,422,465	\$75,270
	Newington	34	117	\$6,576,984	5	\$64,605	\$141,333		
	Rocky Hill	45	26	\$1,785,465	2	\$20,300	\$2,203,517	\$24,441,235	\$1,293,305
	Wethersfield	13	12	\$592,418		\$68,223	\$358,182	\$3,972,928	\$210,227
	Middletown	34	51	\$2,295,495		\$37,887	\$1,117,672		
9 Total		129	218	\$13,600,340		\$219,831	\$3,948,947	\$43,801,400	
10	New Haven	15		\$1,342,781	4	\$98,424	\$6,073,037	\$67,361,636	
10 T-t-!	West Haven	9		\$216,407		\$4,561 \$102.985	\$154,361 \$6,227,397	\$1,712,155	
10 Total	New Haven	24 15	52 52	\$1,559,188 \$1,342,781	5 4	\$102,985 \$98,424	\$6,227,397 \$6,073,037	\$69,073,792 \$67,361,636	\$3,655,032 \$3,564,434
[''	East Haven	6		\$1,342,781 \$139,258		\$98,424 \$0	\$6,073,037 \$56,754	\$67,361,636	
	Hamden	9		\$616,028	1	\$13,650	\$473,976	\$5,257,303	\$278,190
11 Total		30		\$2,098,067	5	\$112,074	\$6,603,767	\$73,248,447	\$3,875,934
12	Branford	8		\$1,277,329		\$153,514	\$418,898	\$4,646,382	
	Guilford	26	10	\$616,394	0	\$0	\$460,426		
	Madison	49	13	\$759,924	0	\$0	\$219,943	\$2,439,585	\$129,090
	North Branford	0		\$189,068		\$17,249	\$231,547	\$2,568,300	
10 7	East Haven	6		\$139,258		\$0	\$56,754	\$629,508	\$33,311
12 Total	Maniala :-	88		\$2,981,973		\$170,763	\$1,387,567	\$15,390,783	
	Meriden Middlefield	19	85	\$2,444,321	2	\$22,845	\$1,283,513		\$753,329
	Middlefield Middletown	8 34	18 52	\$495,530 \$2,295,495		\$0 \$37,887	\$4,903 \$1,117,672	\$54,378 \$12,397,122	\$2,877 \$655,993
13 Total	wiiduletowiii	60	155	\$5,235,345		\$60,732	\$2,406,087	\$26,688,122	\$1,412,199
	Milford	53	12	\$685,256		\$53,103	\$1,446,072	\$16,039,714	
[	Orange	30		\$291,955		\$18,766	\$30,842	\$342,101	\$18,102
	West Haven	9		\$216,407		\$4,561	\$154,361	\$1,712,155	
		92	13	\$1,193,618	3	\$76,430	\$1,631,275	\$18,093,970	



15	Middlebury	11	1	\$387,024	1	\$5,388	\$20,079	\$222,713	\$11,785
	Prospect	11	0	\$411,406	0	\$0	\$7,444	\$82,572	\$4,369
	Waterbury	23	56	\$14,851,918	6	\$68,374	\$423,248	\$4,694,625	\$248,416
	Naugatuck	6	3	\$616,599	1	\$7,557	\$1,067,108	\$11,836,275	\$626,315
15 Total	ŭ	51	61	\$16,266,947	7	\$81,319	\$1,517,879	\$16,836,185	\$890,885
16	Wolcott	26	0	\$361,684	1	\$5,289	\$61,987	\$687,557	\$36,382
	Waterbury	23	56	\$14,851,918	6	\$68,374	\$423,248	\$4,694,625	\$248,416
	Southington	19	0	\$2,844,832	0	\$0	\$65,714	\$728,895	\$38,570
16 Total		68	56	\$18,058,434	7	\$73,663	\$550,949	\$6,111,077	\$323,367
17	ANSONIA	8	0	\$101,729	0	\$0	\$9,909	\$109,906	\$5,816
	Beacon Falls	0	0	\$495,193	0	\$0	\$2,447	\$27,145	\$1,436
	Bethany	8	0	\$356,443	0	\$0	\$2,309	\$25,615	\$1,355
	Derby	4	12	\$167,906	0	\$0	\$66	\$735	\$39
	Woodbridge	19	1	\$19,737	1	\$31,188	\$144,407	\$1,601,753	\$84,757
	Hamden	9	9	\$616,028	1	\$13,650	\$473,976	\$5,257,303	\$278,190
	Naugatuck	6	3	\$616,599	1	\$7,557	\$1,067,108	\$11,836,275	\$626,315
	Seymour	4	56	\$183,505	0	\$0	\$4,381,044	\$48,594,182	\$2,573,856
17 Total		56	81	\$2,557,140	3	\$52,395	\$6,081,266	\$67,452,915	\$3,571,763
18	Griswold	0	0	\$322,384	0	\$0	\$0	\$0	\$0
	Groton	8	10	\$1,930,968	18	\$449,677	\$677,505	\$7,514,829	\$397,646
	Lisbon	0	7	\$1,607,038	6	\$103,029	\$622,644	\$6,906,318	\$365,447
	North Stonington	0	17	\$691,740	7	\$178,659	\$38,775	\$430,088	\$22,758
	Preston	4	0	\$356,207	2	\$73,858	\$32,308	\$358,363	\$18,963
	Sprague	0	0	\$0	0	\$0	\$0	\$0	\$0
	Stonington	0	2	\$505,006	5	\$44,157	\$31,305	\$347,233	\$18,374
	Voluntown	4	2	\$347,397	2	\$31,539	\$1,165	\$12,919	\$684
18 Total		15	38	\$5,760,740	40	\$880,918	\$1,403,702	\$15,569,749	\$823,872
19	Andover	4	81	\$1,626,311	6	\$197,873	\$5,370	\$59,563	\$3,152
	Bozrah	8	16	\$302,566	2	\$21,720	\$26,949	\$298,915	\$15,817
	Columbia	11	37	\$4,168,932	46	\$1,062,957	\$127,167	\$1,410,528	\$74,638
	Franklin	0	0	\$31,367	0	\$0	\$88	\$974	\$52
	Lebanon	11	7	\$3,642,541	27	\$354,529	\$114,540	\$1,270,471	\$67,227
	Montville	4	10	\$57,437	0	\$0	\$50	\$555	\$29
	Norwich	71	197	\$9,849,458	55	\$1,019,592	\$7,917,763	\$87,823,192	\$4,647,154
	Salem	11	5	\$531,173	1	\$40,217	\$8,294	\$91,992	\$4,868
	Mansfield	11	268	\$41,677,818	288	\$9,763,677	\$8,482,719	\$94,089,632	\$4,978,743
	Coventry	9	0	\$6,571,961	31	\$517,337	\$34,048	\$377,651	\$19,984
19 Total		141	622	\$68,459,563	455	\$12,977,901	\$16,716,987	\$185,423,472	\$9,811,663
20	East Lyme	4	0	\$581,614	0	\$0	\$30,130	\$334,200	\$17,684
	Ledyard	15	78	\$2,053,275	5	\$112,055	\$43,381	\$481,179	\$25,462
	New London	15	12	\$1,205,428	9	\$123,581	\$121,900	\$1,352,107	\$71,547
	Old Lyme	8	9	\$660,961	2	\$110,744	\$27,500	\$305,027	\$16,140
	Old Saybrook	11	12	\$724,394	5	\$86,422	\$86,679	\$961,437	\$50,874
	Waterford	4	6	\$1,093,252	5	\$177,831	\$158,275	\$1,755,576	\$92,896
20 Total		56	116	\$6,318,923	26	\$610,634	\$467,865	\$5,189,526	\$274,603
21	Shelton	15	2	\$272,181	2	\$59,455	\$66,514	\$737,763	\$39,039
	Stratford	11	0	\$694,015	1	\$29,271	\$263,013	\$2,917,319	\$154,370
	Sharon	0	9	\$1,612	0	\$0	\$18,800	\$208,524	\$11,034
	Seymour	3	56	\$183,505	0	\$0	\$4,381,044	\$48,594,182	\$2,571,356
21 Total		30	67	\$1,151,313	3	\$88,726	\$4,729,370	\$52,457,788	\$2,775,798
22	Trumbull	23	1	\$564,421	0	\$0	\$142,698	\$1,582,799	\$83,754
	Bridgeport	11	73	\$1,210,566	2	\$24,920	\$653,421	\$7,247,695	\$383,511
	Monroe	6	1	\$289,281	0	\$0	\$6,145	\$68,152	\$3,607
22 Total		39	75	\$2,064,267	2	\$24,920	\$802,264	\$8,898,646	\$470,871
23	Bridgeport	11	73	\$1,210,566	2	\$24,920	\$653,421	\$7,247,695	\$383,511
23 Total	D	11	73	\$1,210,566		\$24,920			
24	Bethel	26	12	\$239,519	3	\$61,095	\$55,515	\$615,765	\$32,583
	Danbury	30	9	\$899,907	2	\$22,119	\$222,435	\$2,467,234	\$130,553
017	New Fairfield	4	0	\$136,479	0	\$0	\$980	\$10,867	\$575
24 Total	N	60	21	\$1,275,905	5	\$83,214	\$278,930	\$3,093,866	\$163,712
25	Norwalk	23	20	\$1,016,044	4	\$42,290	\$277,136	\$3,073,967	\$162,659
	Darien	2	0	\$43,564	1	\$22,390	\$62,045	\$688,199	\$36,416
25 Total	D. defen	24	20	\$1,059,608	5	\$64,680	\$339,181	\$3,762,166	\$199,075
26	Redding	0	15	\$1,644,051	0	\$0	\$36,725	\$407,351	\$21,555
	Ridgefield	0	1	\$286,734	1	\$64,896	\$10,679	\$118,445	
	Weston	0	11	\$82,266	0	\$0	\$1,100	\$12,201	\$646
	Westport	8	30	\$324,238	0	\$0	\$23,278	\$258,201	\$13,663
	Wilton	8	1	\$1,056,126	1	\$6,497	\$43,058	\$477,599	\$25,272
00 T / :	New Canaan	4	0	\$110,067	0	\$0	\$4,378	\$48,555	\$2,570
26 Total	Davisa	19	58	\$3,503,482	2	\$71,393	\$119,218	\$1,322,353	\$69,972
27	Darien	2	0	\$43,564	1	\$22,390	\$62,045	\$688,199	\$36,416
07 T-1-1	Stamford	9	15	\$1,163,216	8	\$140,284	\$686,905	\$7,619,091	\$403,164
27 Total		11	15	\$1,206,780	8	\$162,674	\$748,950	\$8,307,290	\$439,580



20	Caston	15	0	£400 044	0	\$0	£420.020	\$1,431,075	\$75.725
28	Easton		0	\$198,314	0		\$129,020	. , ,	, ., .
	Fairfield	34	23	\$874,486	2	\$35,280	\$247,875	\$2,749,415	\$145,485
	Newtown	19	0	\$965,197	1	\$29,091	\$7,423,146	\$82,336,937	\$4,356,850
	Monroe	6	1	\$289,281	0	\$0	\$6,144	\$68,152	\$3,607
28 Total		73	24	\$2,327,277	3	\$64,371	\$7,806,184	\$86,585,579	\$4,581,666
29	Canterbury	8	26	\$1,457,384	13	\$166,661	\$8,010	\$88,843	\$4,701
	Killingly	0	73	\$304	0	\$0	\$0	\$0	\$0
	Plainfield	0	11	\$1,043,736	4	\$78,781	\$93,145	\$1,033,161	\$54,670
	Putnam	30	844	\$3,251,604	33	\$541,008	\$749,151	\$8,309,518	\$439,697
		0	1,003						
	Scotland	-	,	\$918,170	4	\$100,142	\$5,469	\$60,662	\$3,210
	Sterling	4	17	\$90,299	0	\$0	\$17,512	\$194,242	\$10,278
	Thompson	0	30	\$336,337	1	\$60,460	\$5,411	\$60,022	\$3,176
	Windham	15	22	\$21,819,907	284	\$4,116,687	\$1,800,125	\$19,966,844	\$1,056,543
	Mansfield	11	268	\$41,677,818	288	\$9,763,677	\$8,482,719	\$94,089,632	\$4,978,743
29 Total		68	2,293	\$70,595,559	627	\$14,827,415	\$11,161,542	\$123,802,923	\$6,551,018
30	Canaan	4	140	\$15,059	1	\$25,528	\$29,649	\$328,868	\$17,402
	Cornwall	0	4	\$208,143	0	\$0	\$500	\$5,546	\$293
	Goshen	0	8	\$70,366	0	\$0	\$752	\$8,345	\$442
	Kent	4	30	\$7,149	1	\$27,902	\$475	\$5,269	\$279
		19	74		-				
	Litchfield			\$3,090,520	5	\$42,791	\$138,158	\$1,532,433	\$81,089
	Morris	0	3	\$74,408	1	\$29,218	\$25	\$277	\$15
	North Canaan	0	0	\$3,088	0	\$0	\$0	\$0	\$0
	Salisbury	0	2	\$17,381	1	\$15,839	\$50	\$555	\$29
	Sherman	4	52	\$42,598	0	\$0	\$505	\$5,601	\$296
	Torrington	15	18	\$2,432,286	6	\$108,214	\$1,579,676	\$17,521,644	\$927,156
	Warren	0	0	\$25,895	0	\$0	\$0	\$0	\$0
	Washington	4	15	\$62,752	0	\$0	\$60	\$666	\$35
	Sharon	0	9	\$1,612	0	\$0	\$18.800	\$208,524	\$11,034
	New Milford	8	0	\$324,973	1	\$22,345	\$19,135	\$212,242	\$11,231
			-	\$769,588	'	\$22,345 \$0			
00 T 1 1	Harwington	6	0		0		\$9,674	\$107,304	\$5,678
30 Total		62	356	\$7,145,820	16	\$271,837	\$1,797,459	\$19,937,274	\$1,054,979
31	Bristol	45	317	\$12,882,762	6	\$152,056	\$503,298	\$5,582,536	\$295,399
	Plainville	0	247	\$4,377,567	2	\$59,404	\$14,051,959	\$155,863,208	\$8,247,484
	Southington	19	0	\$2,844,832	0	\$0	\$65,714	\$728,895	\$38,570
	Plymouth	0	17	\$137,328	0	\$0	\$68	\$753	\$40
31 Total		64	580	\$20,242,489	8	\$211,460	\$14,621,039	\$162,175,393	\$8,581,493
32	Bethlehem	0	0	\$295,348	2	\$61,589	\$85	\$943	\$50
	Bridgewater	0	2	\$112,032	1	\$20,733	\$12,000	\$133,103	\$7,043
	Brookfield	4	3	\$517,259	0	\$0	\$18,577	\$206,053	\$10,903
	Oxford	11	9	\$229,452	0	\$0 \$0	\$27,501	\$305,041	\$16,141
		4	9		0	·		. ,	
	Roxbury			\$180,347		\$24,353	\$150	\$1,664	\$88
	Southbury	11	28	\$946,651	5	\$110,414	\$126,350	\$1,401,465	\$74,158
	Thomaston	4	2	\$390,197	1	\$46,592	\$7,799	\$86,502	\$4,577
	Watertown	15	9	\$513,224	3	\$57,663	\$23,163	\$256,924	\$13,595
	Woodbury	11	9	\$46,703	0	\$0	\$6,190	\$68,663	\$3,633
	New Milford	8	0	\$324,973	1	\$22,345	\$19,135	\$212,242	\$11,231
32 Total		68	70	\$3,556,186	14	\$343,687	\$240,950	\$2,672,599	\$141,420
33	Chester	0		\$808,241	1	\$36,758	\$37,476	\$415,676	\$21,995
	Clinton	4	5	\$373,865	1	\$20,613	\$23,911	\$265,222	\$14,034
	Colchester	11	10	\$1,269,032	3	\$50,825	\$20,828	\$231,026	\$12,225
	Deep River	4	8	\$354,030	0	\$0 \$0	\$14,059	\$155,939	\$8,251
	•				0				
	Durham	15	14	\$547,578	1	\$1,443	\$28,039	\$311,005	\$16,457
	East Haddam	0		\$801,815	2	\$57,209	\$658	\$7,304	\$386
	East Hampton	0		\$832,871	2	\$82,073	\$62,828	\$696,881	\$36,875
	Essex	0		\$362,297	0	\$0	\$92,945	\$1,030,935	\$54,552
	Haddam	0	4	\$626,200	1	\$5,473	\$8,500	\$94,279	\$4,989
	Killingworth	11	22	\$626,068	1	\$35,238	\$212,532	\$2,357,390	\$124,741
	Lyme	0	4	\$135,598	0	\$0	\$1,623	\$18,002	\$953
	Marlborough	4	7	\$966,083	5	\$74,612	\$9,045	\$100,329	\$5,309
	Portland	4	12	\$527,545	0	\$0	\$361,712	\$4,012,079	\$212,299
	Westbrook	8	0	\$187,780	2	\$11,536	\$11,792	\$130,799	\$6,921
33 Total	* * COLDIOON	60	131	\$8,419,002	19	\$375,781	\$885,948	\$9,826,865	
JJ TUIAI		00	131	φο,4 19,002	19	कुउ/उ,/४।	φ000,948	φ5,020,005	क्ठ १५,५४७



					_	444 /44	4111-11-	4	44 444 = 1=
34	Cheshire	53	43	\$3,453,265	2	\$28,126	\$15,713,600		
	North Haven	23	4	\$873,161	1	\$3,074	\$397,683	\$4,411,071	\$233,411
	Wallingford	49	11	\$1,150,811	3	\$54,167	\$415,546	\$4,609,198	\$243,895
34 Total		124	58	\$5,477,236	6	\$85,367	\$16,526,829	\$183,314,267	\$9,700,054
35	ASHFORD	11	11	\$10,482,033	56	\$1,149,657	\$175,462	\$1,946,215	\$102,984
	Brooklyn	11	24	\$1,775,897	14	\$269,901	\$29,462	\$326,791	\$17,292
	Chaplin	0	13	\$3,655,279	28	\$511,919	\$9,430	\$104,592	\$5,534
	Eastford	4	1	\$1,834,601	20	\$356,407	\$2,117	\$23,482	\$1,243
	Hampton	8	7	\$3,785,455	25	\$650,176	\$46,420	\$514,890	\$27,245
	Pomfret	8	16	\$1,232,842	11	\$224,122	\$50,045	\$555,098	\$29,373
	Rockville	0	68	\$760,037	3	\$72,076	\$10,805	\$119,848	\$6,342
	Stafford	8	7	\$5,300,899	55	\$820,602	\$2,046,232	\$22,696,646	\$1,200,991
	Tolland	23	16	\$12,982,561	49	\$1,029,299	\$205,135	\$2,275,345	\$120,400
	Union	11	2	\$4,839,298	2	\$22,106	\$65,505	\$726,579	\$38,447
	Vernon	34	90	\$9,745,589	32	\$662,382	\$511,830	\$5,677,183	\$300,407
	Willington	19	480	\$19,086,320	92	\$2,123,916	\$306,389	\$3,398,440	\$179,828
	Woodstock	11	275	\$2,883,916	25	\$510,549	\$113,628	\$1,260,356	\$66,692
	Coventry	9	0	\$6,571,962	31	\$517,337	\$34,048	\$377,651	\$19,984
	Ellington	11	0	\$1,644,383	5	\$120,255	\$64,453	\$714,899	\$37,829
35 Total		167	1,010	\$86,581,073	447	\$9,040,703	\$3,670,962	\$40,718,015	\$2,154,590
36	Greenwich	15	15	\$307,342	1	\$14,991	\$686,092	\$7,610,073	\$402,686
	New Canaan	4	1	\$110,067	0	\$0	\$4,378	\$48,555	
	Stamford	9	15	\$1,163,216	8	\$140,284	\$686,905	\$7,619,091	\$403,164
36 Total		28	30	\$1,580,625	9	\$155,275	\$1,377,374	\$15,277,719	\$808,419



## Appendix II:

UConn Economic Impact by Assembly District: Selected Input Variables and Gross Regional Product (GRP)



Discrimed			UConn Economic	Impact by Assembly Distri	ict: Selected Inp		and Gross Regional	Product (GRP)		
Naming   N		Town	Number of Alumni		Payroll		Retiree Benefits	Procurement	Change in GRP	Amenity Share
Second	1									\$1,744,454
Second	1 Total	наптого								\$2,804,575 \$4,549,029
Second	2	Hartford	11	178	\$1,723,438	2	\$44,483	\$4,778,399	\$53,001,619	\$2,804,575
Stroig	2 Total	Hartford				2				\$2,804,575 \$2,804,575
4 Troisi	3 Total	Tartiord								\$2,804,575
Second Colors	4	Hartford	11		\$1,723,438	2	\$44,483	\$4,778,399	\$53,001,619	\$2,804,575
Strote   Fartford	4 Total	Hartford				2				\$2,804,575 \$2,804,575
	5 Total	riartioru				2				\$2,804,575
Vindor	6	Hartford								\$2,804,575
7 Total (Combins)	6 i otal 7	Hartford				2				\$2,804,575 \$2,804,575
8 Columbia   11   37   \$4,168,031   46   \$10,02,957   \$127,167   \$1,410,526   \$33,220,100   \$3,3123,170   \$1,400,526   \$35,220,100   \$3,572,700   \$35,532,000   \$3,572,700   \$35,532,000   \$35,248,530   \$11   \$220,704   \$170,610   \$3,372,306   \$9   \$15,000,000   \$1,0			13	0	\$530,599	2			\$24,265,269	\$1,283,994
Lebanom	7 Total	Columbia								\$4,088,569
Coventry	0									\$74,638 \$33,614
Brotal 9			9	0	\$6,571,961		\$517,337	\$34,047	\$377,651	\$19,984
9 East Harrford 13 12 \$1,318,986 3 \$25,968 \$524,968 \$5,822,899 Glastonbury 64 11 \$1 \$1,325,587 9 \$234,168 \$11,864 \$11,864 \$12,007,965 \$10.00 \$	9 Total	Vernon								\$100,136 \$228,371
Social		East Hartford	30							\$308,118
Seast Hartford   Seas		Manchester	13	13	\$4,253,587	9	\$234,186	\$411,864	\$4,568,358	\$241,734
10   East Hartford   3   12   S1,318,996   3   S25,968   S524,968   S6,822,899   S524,968   S6,822,899   S6	9 Total	Glastonbury								\$635,497 \$1,185,349
11 Total 13 Total 14 Anncheater 15 13 13 13 14 15 13 18 806 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10	East Hartford	3	12	\$1,318,896	3		\$524,968	\$5,822,899	\$308,118
11 Total		Coat Llauttered			\$1,318,896					\$308,118
12		East Hartford								\$308,118 \$308,118
13 Manchester 13 13 \$4,255,567 9 \$234,186 \$411,864 \$4,568,356 14 South Windsor 30 14 \$4,807,803 6 \$188,191 \$637,286 \$7,068,722 14 South Windsor 30 14 \$4,807,803 6 \$188,191 \$637,286 \$7,068,722 15 Bloomfield 4 \$3 30 \$2,372,063 10 \$2,241,301 \$2,297,176 \$22,067,169 Windsor 16 \$3 \$2,207,169 \$10 \$244,331 \$2,977,176 \$22,067,169 Windsor 17 \$15 Total 16 \$3 \$2,207,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,331 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$10 \$244,341 \$2,297,176 \$22,067,169 \$244,341 \$2,297,176 \$22,067,169 \$244,341 \$2,297,176 \$22,067,176 \$2,297,176 \$22,067 \$2,297,176 \$22,067 \$2,297,176 \$2,297,176 \$22,067 \$2,297,176 \$2,297,1	12	Manchester	13	13	\$4,253,587	9	\$234,186	\$411,864	\$4,568,358	\$241,734
13 Total   14 South Windsor   30		Manakastan								\$241,734
14 South Windsor 30 14 S4,807,893 6 \$188,191 \$337,286 \$7,088,722 \$15 Bloomfield 4 39 \$2,372,903 10 \$2,433 \$2,972,178 \$32,907,164 \$15 Interest		Manchester								\$241,734 \$241,734
15   Bloomfield   4   39   \$2,372,963   10   \$254,331   \$2,972,176   \$32,967,164   Windsor   13   0   \$303,099   2   \$21,213   \$24,262,269   15 Total   16   39   \$2,903,569   2   \$21,213   \$51,564   \$51,569,831   \$57,222,433		South Windsor			\$4,807,893	6				\$374,041
Windsor		Disconfield								\$374,041
16 Simsbury 41 102 \$7.842.480 4 \$151.801 \$360.287 \$3.996.271 16 Total 41 102 \$7.842.480 4 \$151.801 \$360.287 \$3.996.271 16 Total 41 102 \$7.842.480 4 \$151.801 \$360.287 \$3.996.271 17 Avon 105 161 \$147.60.481 5 \$231.240 \$7.502.251 \$33.24.370 17 Total 11 50 \$2.239.990 1 \$36.229 \$65.181 \$722.984 17 Total 16 22 \$17.70471 5 \$36.289 \$65.181 \$722.984 18 Total 16 22 \$17.70471 1 \$318.701 \$396.287 \$3.996.271 17 Total 16 50 \$2.339.990 1 \$36.289 \$7.567.432 \$83.837.854 18 Total 19 West Hartford 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 19 Total 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 19 Total 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 19 Total 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 19 Total 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 19 Total 64 51 \$3.757.612 11 \$318.701 \$999.007 \$11.090.884 10 17 \$10.000 \$1.00000 \$1	15									\$1,744,454 \$1,283,994
16 Total			16	39	\$2,903,562	11	\$275,544	\$5,159,831	\$57,232,433	\$3,028,448
177 Camton 105		Simsbury								\$211,462 \$211,462
Canton 11 50 \$2,939,990 1 \$6,629 \$65,181 \$722,984 17 Total 116 212 \$17,704,71 6 \$238,093 \$7,67,42 \$83,937,354 18 West Hartford 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884 19 West Hartford 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884 19 West Hartford 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884 19 West Hartford 111 178 \$1,757,612 11 \$318,791 \$999,907 \$11,090,884 19 West Hartford 111 178 \$1,723,438 2 \$44,483 \$4,778,399 \$53,001,619 West Hartford 111 178 \$1,723,438 2 \$44,483 \$4,778,399 \$53,001,619 West Hartford 75		Avon								\$4,403,279
18 Total 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884   19 West Hartford 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884   19 Total 64 51 \$3,757,612 11 \$318,791 \$999,907 \$11,090,884   20 Hartford 11 178 \$1,723,438 2 \$44,483 \$4,778,399 \$10,000,884   20 Total 75 229 \$5,881,051 13 \$338,791 \$999,907 \$11,090,884   20 Total 75 229 \$5,881,051 13 \$338,791 \$999,907 \$11,090,884   20 Total 75 229 \$5,881,051 13 \$338,791 \$999,907 \$11,090,884   20 Total 75 229 \$5,881,051 13 \$363,275 \$5,778,399 \$53,001,619   21 Farmington 124 349 \$16,309,412 6 \$112,097 \$57,229,521 \$634,785,268   21 Farmington 124 4349 \$16,309,412 6 \$112,097 \$57,229,521 \$634,785,268   21 Plainville 0 123 \$2,188,783 1 \$29,702 \$7,025,980 \$77,931,604   21 Total 124 473 \$18,498,195 7 \$141,800 \$864,255,501 \$712,716,872   22 Plainville 0 123 \$2,188,783 1 \$29,702 \$7,025,980 \$77,931,604   23 Bristol 111 79 \$3,220,691 2 \$38,014 \$126,824 \$5,501 \$712,716,872   24 Plainville 0 123 \$2,188,783 1 \$29,702 \$7,025,980 \$77,931,604   25 Total 124 13 \$669,506 2 \$18,312 \$368,106 \$4,083,005   26 Bristol 111 203 \$5,409,474 3 \$67,716 \$7,151,804 \$79,327,238   28 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   24 Total 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   25 Total 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   26 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   27 Newington 177 59 \$3,288,492 3 \$32,303 \$70,666 \$783,825   28 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   26 Total 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   27 Newington 177 59 \$3,288,492 3 \$32,303 \$70,666 \$783,825   28 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583   29 Total 19 \$10,000,000 \$1,000,000			11	50	\$2,939,990	1	\$6,829	\$65,181	\$722,984	\$38,257
18 Total   64   51   \$3,757,612   11   \$318,791   \$999,907   \$11,090,884   19 Total   64   51   \$3,757,612   11   \$318,791   \$999,907   \$11,090,884   19 Total   64   51   \$3,757,612   11   \$318,791   \$999,907   \$11,090,884   20   Hartford   64   51   \$3,757,612   11   \$318,791   \$999,907   \$11,090,884   20   West Hartford   64   51   \$3,757,612   11   \$318,791   \$999,907   \$11,090,884   20   Total   57   \$29   \$5,881,051   13   \$362,791   \$999,907   \$11,090,884   20   Total   \$12,091   \$10,000,884   20   \$16,309,412   11   \$318,791   \$999,907   \$11,090,884   20   \$16,309,412   11   \$318,791   \$999,907   \$11,090,884   20   \$16,309,412   12   \$18,781   \$18,981   \$15,778,306   \$110,090,884   \$16,309,412   12   \$18,781   \$18,981   \$15,778,306   \$110,090,884   \$15,822   \$13,910,834   \$16,309,412   12   \$12,970   \$25,729,521   \$634,785,286   \$110,007   \$57,229,521   \$634,785,286   \$110,007   \$57,229,521   \$634,785,286   \$110,007   \$57,229,521   \$634,785,286   \$110,007   \$21,807,207   \$29,702   \$70,7025,890   \$77,931,604   \$125,827   \$76,835   \$77,931,604   \$125,827   \$76,835   \$77,931,604   \$125,827   \$76,835   \$10,906,433   \$125,824   \$13,96,634   \$125,824   \$125,824   \$125,824   \$125,824   \$125,824   \$125,824   \$125,824   \$125,824   \$125,		West Hartford								\$4,441,536 \$586,873
19 Total 20 Hartford 11 1 178 \$31,751,612 11 \$318,791 \$999,907 \$11,090,884 \$1,723,438 \$2 \$44,483 \$4,778,399 \$53,001,619 \$1,090,884 \$1,723,438 \$2 \$44,483 \$4,778,399 \$53,001,619 \$10,000,814 \$10,000,81		VVCot Hartiora								\$586,873
Hartford		West Hartford								\$586,873
West Hartford		Hartford								\$586,873 \$2,804,575
Farmington   124   349   \$16,309,412   6   \$112,097   \$57,229,521   \$634,785,268   Plainville   0   123   \$2,188,783   1   \$29,702   \$7,025,980   \$77,931,604   \$21   \$21   \$21   \$21   \$21   \$21   \$21   \$21   \$21   \$22   \$21   \$23   \$21   \$23			64	51	\$3,757,612	11	\$318,791	\$999,907	\$11,090,884	\$586,873
Plainville		Formington								\$3,391,448 \$33,589,592
Plainville Bristol	21									\$4,123,742
Bristol					\$18,498,195		\$141,800	\$64,255,501	\$712,716,872	\$37,713,334
22 Total 23 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 Berlin 4 13 \$669,506 2 \$18,312 \$368,106 \$4,083,005 23 Total 24 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 24 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 24 Total 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 24 Total 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 Newington 17 59 \$3,288,492 3 \$32,303 \$70,666 \$783,825 26 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 27 Total 28 New Britain 29 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 26 Total 27 Newington 28 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 26 Total 27 Newington 28 29 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 27 Newington 29 17 59 \$3,288,492 3 \$32,303 \$70,666 \$783,825 28 Wethersfield 13 12 \$502,417 5 \$68,223 \$358,182 \$3,972,928 28 Total 29 Rocky Hill 45 26 \$1,785,465 2 \$20,300 \$2,203,517 \$24,441,235 \$404,447 \$45 \$404,447 \$45 \$404,447 \$45 \$404,447 \$45 \$404,447 \$45 \$404,447 \$45 \$44,474,518 \$5 \$120,373 \$1,082,751 \$12,009,792 \$170tal 30 Total 31 Glastonbury 49 142 \$4,774,518 5 \$120,373 \$1,082,751 \$12,009,792 \$110tal 40 12 \$53,499,80 1 \$28,877 2 \$47,660 \$1,048,791 \$11,049,791 \$11,0	22									\$4,123,742 \$73,850
Berlin 4 13 \$669,506 2 \$18,312 \$368,106 \$4,083,005 2	22 Total	Bristoi								\$4,197,592
23 Total 24 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 25 Total 39 68 \$5,966,432 3 \$32,303 \$70,666 \$783,825 25 Total 26 New Britain 23 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 26 Total 27 Newington 28 10 \$2,677,940 1 \$2,827 \$765,835 \$8,494,583 27 Newington 29 \$3,288,492 3 \$32,303 \$70,666 \$783,825 27 Total 28 Wethersfield 29 \$3,288,492 3 \$32,303 \$70,666 \$783,825 28 Wethersfield 29 Rocky Hill 45 26 \$1,785,465 2 \$20,300 \$2,203,517 \$24,441,235 Hartford 29 Total 29 Total 30 Berlin 4 13 \$2,827 \$765,835 \$8,494,583 29 Total 31 \$2,592,417 5 \$68,223 \$358,182 \$3,972,928 39 Total 30 Berlin 4 13 \$2,827 \$765,835 \$8,494,583 44,774,399 \$53,001,619 29 Total 30 Berlin 4 13 \$669,506 \$2 \$18,312 \$368,106 \$4,083,005 30 Total 31 \$12 \$592,417 5 \$68,223 \$358,182 \$3,972,928 30 Berlin 4 13 \$2,827,417 5 \$68,223 \$358,182 \$3,972,928 30 Berlin 4 13 \$2,827,417 5 \$68,223 \$358,182 \$3,972,928 30 Berlin 4 13 \$2,927,928 \$24,444,83 \$4,778,399 \$53,001,619 30 Total 31 \$12 \$592,417 5 \$68,223 \$358,182 \$3,972,928 30 Berlin 4 13 \$2,827,418 5 \$68,223 \$358,182 \$3,972,928 30 Berlin 4 13 \$669,506 \$2 \$18,312 \$369,106 \$7,340,098 \$81,415,782 31 Glastonbury 49 \$142 \$4,774,518 5 \$120,373 \$1,082,751 \$12,009,792 31 Total 40 \$142 \$4,774,518 5 \$120,373 \$1,082,751 \$12,009,792 31 Total 41 \$2,234,980 1 \$28,817 \$128,243 \$1,422,465 \$40,198,001 \$1,422,416 \$1,424,65 \$1,447,747 \$1,447,74	23									\$449,490
24         New Britain         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           24 Total         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           25         New Britain         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           Newington         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           26         New Britain         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           26 Total         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           27 Total         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           27 Total         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           28 Total         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           28 Total         13         12         \$592	23 Total	Berlin								\$216,052 \$665,542
Section   Sect	24	New Britain	23	10	\$2,677,940		\$2,827	\$765,835	\$8,494,583	\$449,490
Newington		Now Britain				1				\$449,490 \$449,490
25 Total	۷.									\$449,490 \$41,476
26 Total         23         10         \$2,677,940         1         \$2,827         \$765,835         \$8,494,583           27         Newington         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           28         Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           28 Total         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           29 Rocky Hill         45         26         \$1,785,465         2         \$20,300         \$2,20,3517         \$24,441,235           Hartford         11         178         \$1,723,438         2         \$44,483         \$4,778,399         \$53,001,619           Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           29 Total         30         Berlin         4         13         \$12         \$592,417         \$68,223         \$358,182         \$3,972,928           29 Total         30         Berlin         \$13         12         \$592,417         \$68,223         \$358,182         \$3,972,928           29 Tot		•	39	68	\$5,966,432	3	\$35,130	\$836,502	\$9,278,409	\$490,966
27         Newington         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           27 Total         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           28         Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           28 Total         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           29 Rocky Hill         45         26         \$1,785,465         2         \$20,300         \$2,203,517         \$24,441,235           Hartford         11         178         \$1,723,438         2         \$44,83         \$4,778,399         \$53,001,619           Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           29 Total         30         Berlin         4         13         \$669,506         2         \$13,312         \$368,106         \$4,083,005           Southington         9         0         \$1,422,416         0         \$0         \$32,857         \$364,447           31 Total         13		New Britain								\$449,490 \$449,490
27 Total         17         59         \$3,288,492         3         \$32,303         \$70,666         \$783,825           28         Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,972,928           29         Rocky Hill         45         26         \$1,785,465         2         \$20,300         \$2,203,517         \$24,441,235           Hartford         11         178         \$1,723,438         2         \$44,483         \$4,778,399         \$53,001,619           Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,907,2928           29 Total         13         12         \$592,417         5         \$68,223         \$358,182         \$3,001,619           Wethersfield         13         12         \$592,417         5         \$68,223         \$358,182         \$3,001,619           Portal         69         216         \$4,101,321         9         \$133,006         \$7,340,098         \$81,415,782           30         Berlin         4         13         \$669,506         2         \$18,312         \$368,106         \$4,083,005           Southington         9         0	27	Newington		59	\$3,288,492	3				\$41,476
28 Total	27 Total		17	59	\$3,288,492	3	\$32,303	\$70,666	\$783,825	\$41,476
29     Rocky Hill Hartford     45     26     \$1,785,465     2     \$20,300     \$2,203,517     \$24,441,235       Wethersfield     13     12     \$592,417     5     \$68,223     \$358,182     \$3,972,928       29 Total     69     216     \$4,101,321     9     \$133,006     \$7,340,098     \$81,415,782       30     Berlin Southington     4     13     \$669,506     2     \$18,312     \$368,106     \$4,083,005       Southington     9     0     \$1,422,416     0     \$0     \$32,857     \$364,447       30 Total     13     13     \$2,091,922     2     \$18,312     \$400,963     \$4,447,453       31 Total     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       32     Cromwell     4     12     \$2,349,980     1     \$28,817     \$128,243     \$1,422,465       Portland     4     12     \$53     0     \$0     \$361,712     \$4,012,079       Middletown     17     26     \$1,147,747     1     \$18,943     \$558,836     \$6,198,561       32 Total     54     49     \$3,497,727     2     \$47,76     \$1,048,791     \$11,633,104		vvetnerstield								\$210,227 \$210,227
29 Total         69         216         \$4,101,321         9         \$133,006         \$7,340,098         \$81,415,782           30         Berlin         4         13         \$669,506         2         \$18,312         \$368,106         \$4,083,005           Southington         9         0         \$1,422,416         0         \$0         \$32,857         \$364,447           30 Total         13         13         \$2,091,922         2         \$18,312         \$400,963         \$4,447,453           31 Total         49         142         \$4,774,518         5         \$120,373         \$1,082,751         \$12,009,792           32         Cromwell         4         12         \$2,349,980         1         \$28,817         \$128,243         \$1,422,465           Portland         4         12         \$53         0         \$0         \$361,712         \$4,012,079           Middletown         17         26         \$1,147,747         1         \$18,943         \$558,836         \$6,193,561           32 Total         24         49         \$3,497,727         2         \$47,760         \$1,048,791         \$11,633,104			45	26	\$1,785,465	2	\$20,300	\$2,203,517	\$24,441,235	\$1,293,305
29 Total         69         216         \$4,101,321         9         \$133,006         \$7,340,098         \$81,415,782           30         Berlin         4         13         \$669,506         2         \$18,312         \$368,106         \$4,083,005           Southington         9         0         \$1,422,416         0         \$0         \$32,857         \$364,447           30 Total         13         13         \$2,091,922         2         \$18,312         \$400,963         \$4,447,453           31 Total         49         142         \$4,774,518         5         \$120,373         \$1,082,751         \$12,009,792           32         Cromwell         4         12         \$2,349,980         1         \$28,817         \$128,243         \$1,422,465           Portland         4         12         \$53         0         \$0         \$361,712         \$4,012,079           Middletown         17         26         \$1,147,747         1         \$18,943         \$558,836         \$6,193,561           32 Total         24         49         \$3,497,727         2         \$47,760         \$1,048,791         \$11,633,104						2	\$44,483			
30         Berlin Southington         4         13 \$669,506 \$2 \$18,312 \$368,106 \$4,083,005 \$32,857 \$364,447 \$31 \$13 \$13 \$2,091,922 \$2 \$18,312 \$400,963 \$4,447,453 \$11 \$13 \$13 \$2,091,922 \$2 \$18,312 \$400,963 \$4,447,453 \$11 \$13 \$13 \$2,091,922 \$18,312 \$400,963 \$4,447,453 \$11,082,751 \$12,009,792 \$11 \$1041 \$10	29 Total	vv eu iei Sileid								\$210,227 \$4,308,107
30 Total     13     13     \$2,091,922     2     \$18,312     \$400,963     \$4,447,453       31 Glastonbury     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       31 Total     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       32     Cromwell     4     12     \$2,349,980     1     \$28,817     \$128,243     \$1,422,465       Portland     4     12     \$53     0     \$0     \$361,712     \$4,012,079       Middletown     17     26     \$1,147,747     1     \$18,943     \$558,836     \$6,198,561       32 Total     24     49     \$3,497,727     2     \$47,760     \$1,048,791     \$11,633,104			4	13	\$669,506	2	\$18,312	\$368,106	\$4,083,005	\$216,052
31     Glastonbury     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       31 Total     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       32     Cromwell     4     12     \$2,349,980     1     \$28,817     \$128,243     \$1,422,465       Portland     4     12     \$53     0     \$0     \$361,712     \$4,012,079       Middletown     17     26     \$1,147,747     1     \$18,943     \$558,836     \$6,198,561       32 Total     24     49     \$3,497,727     2     \$47,760     \$1,048,791     \$11,633,104	30 Total	Southington								\$19,285 \$235,337
31 Total     49     142     \$4,774,518     5     \$120,373     \$1,082,751     \$12,009,792       32     Cromwell     4     12     \$2,349,980     1     \$28,817     \$128,243     \$1,422,465       Portland     4     12     \$53     0     \$0     \$361,712     \$4,012,079       Middletown     17     26     \$1,147,747     1     \$18,943     \$558,836     \$6,198,561       32 Total     24     49     \$3,497,727     2     \$47,760     \$1,048,791     \$11,633,104		Glastonbury								\$635,497
Portland         4         12         \$53         0         \$0         \$361,712         \$4,012,079           Middletown         17         26         \$1,147,747         1         \$18,943         \$558,836         \$6,198,561           32 Total         24         49         \$3,497,727         2         \$47,760         \$1,048,791         \$11,633,104	31 Total	· ·	49	142	\$4,774,518	5	\$120,373	\$1,082,751	\$12,009,792	\$635,497
Middletown   17   26   \$1,147,747   1   \$18,943   \$558,836   \$6,198,561   32 Total   24   49   \$3,497,727   2   \$47,760   \$1,048,791   \$11,633,104	32									\$75,270 \$212,299
32 Total 24 49 \$3,497,727 2 \$47,760 \$1,048,791 \$11,633,104										\$327,996
155 HVIIGGIEIOWD I 171 261 \$1.147.7471 11 \$18.9431 \$558.8361 \$6.198.5611		N dialalista								
33 Total 17 26 \$1,147,747 1 \$18,943 \$558,836 \$6,198,561		ivilaaletown				1	\$18,943 \$18,943	\$558,836 \$558.836	\$6,198,561 \$6,198,561	\$327,996 \$327,996



	Essex	0	0	\$362,297	0	\$0	\$46,473	\$515,467	\$27,276
	Old Saybrook	6	6	\$724,394	3	\$43,211	\$43,340	\$480,719	\$25,437
35 Total		15	8	\$1,648,336	5	\$65,054	\$113,560	\$1,259,596	\$66,651
36	Chester	0	39	\$808,241	1	\$36,758	\$37,476	\$415,676	\$21,995
I	Deep River Lyme	4	8 4	\$354,030 \$135,598	0	\$0 \$0	\$14,059 \$1,623	\$155,939 \$18,002	\$8,251 \$953
I	Essex	0	اً	\$181,149	0	\$0 \$0	\$46,473	\$515,467	\$27,276
1	Old Saybrook	6	6	\$362,197	3	\$43,211	\$43,340	\$480,719	\$25,437
36 Total		9	57	\$1,841,214	4	\$79,969	\$142,969	\$1,585,803	\$83,913
37	East Lyme	4 8	0	\$581,614	0 2	\$0 \$110.744	\$30,130	\$334,200	\$17,684 \$16,140
37 Total	Old Lyme	8	9	\$660,961 \$1,242,574	2	\$110,744 \$110,744	\$27,500 \$57,630	\$305,027 \$639,226	\$16,140 \$33,825
38	Waterford	4	6	\$1,093,252	5	\$177,831	\$158,275	\$1,755,576	\$92,896
	New London	5	4	\$52,410	3	\$41,194	\$40,633	\$450,702	\$23,849
38 Total		9	10	\$1,145,662	8	\$219,025	\$198,909	\$2,206,279	\$116,745
39 39 Total	New London	5 5	4	\$52,410	3	\$41,194 \$41,194	\$40,633	\$450,702	\$23,849 \$23,849
39 Total 40	New London	5	4	\$52,410 \$52,410	3	\$41,194 \$41,194	\$40,633 \$40,633	\$450,702 \$450,702	\$23,849 \$23,849
40	Groton	3	3	\$643,656	6	\$149,892	\$225,835	\$2,504,943	\$132,549
40 Total		8	7	\$696,066	9	\$191,086	\$266,468	\$2,955,645	\$156,398
41	Groton	3	3	\$643,656	6	\$149,892	\$225,835	\$2,504,943	\$132,549
41 Total	Groton	3	3	\$643,656 \$643,656	6	\$149,892 \$140,892	\$225,835	\$2,504,943	\$132,549 \$132,540
42	Groton Montville	2	5	\$643,656 \$28,718	6 0	\$149,892 \$0	\$225,835 \$25	\$2,504,943 \$277	\$132,549 \$15
	Ledyard	15	78	\$2,053,275	5	\$112,055	\$43,381	\$481,179	\$25,462
42 Total		19	86	\$2,725,650	11	\$261,947	\$269,241	\$2,986,399	\$158,026
43	North Stonington	0		\$691,740	7	\$178,659	\$38,775	\$430,088	\$22,758
10 T.1.1	Stonington	0		\$505,006	5	\$44,157	\$31,305	\$347,233	\$18,374
43 Total 44	Killingly	0	20 24	\$1,196,746 \$101	12 0	\$222,815 \$0	\$70,080 \$0	\$777,321 \$0	\$41,132 \$0
	Canterbury	8	26	\$1,457,384	13	\$166,661	\$8,010	\$88.843	\$4,701
	Plainfield	0		\$1,043,736	4	\$78,781	\$93,145	\$1,033,161	\$54,670
44 Total		8	60	\$2,501,222	17	\$245,442	\$101,155	\$1,122,003	\$59,371
45	Lisbon	0		\$803,519	3	\$51,515	\$311,322	\$3,453,159	\$182,724
	Griswold Preston	0	0	\$322,384 \$356,207	0 2	\$0 \$73,858	\$0 \$32,308	\$0 \$358,363	\$0 \$18,963
	Sterling	4	17	\$90,299	0	\$0	\$17,512	\$194,242	\$10,903
I	Voluntown	4	2	\$347,397	2	\$31,539	\$1,165	\$12,919	\$684
45 Total		11	22	\$1,919,806	7	\$156,912	\$362,307	\$4,018,682	\$212,648
46	Norwich	36	99	\$4,924,729	28	\$509,796	\$3,958,881	\$43,911,596	\$2,323,577
46 Total 47	Lisbon	36 0	99 3	\$4,924,729 \$803,519	28 3	\$509,796 \$51,515	\$3,958,881 \$311,322	\$44,071,345 \$3,453,159	\$2,323,577 \$182,724
**	Norwich	36	99	\$4,924,729	28	\$509,796	\$3,958,881	\$43,911,596	\$2,323,577
	Scotland	0	1,003	\$918,170	4	\$100,142	\$5,469	\$60,662	\$3,210
	Sprague	0		\$0	0	\$0	\$0	\$0	\$0
47 Total	Colchester	36 11	1,105	\$6,646,419	35	\$661,452	\$4,275,672	\$47,425,416	\$2,509,510
48	East Haddam	0	10 0	\$1,269,032 \$801,815	3 2	\$50,825 \$57,209	\$20,828 \$658	\$231,026 \$7,304	\$12,225 \$386
	Salem	11	5	\$531,173	1	\$40,217	\$8,294	\$91,992	\$4,868
48 Total		23	16	\$2,602,020	6	\$148,251	\$29,780	\$330,322	\$17,479
49	Windham	15	23	\$25,418,865	331	\$4,830,465	\$1,955,591	\$21,691,261	\$1,147,791
49 Total 50	Brooklyn	15 11	23 24	\$25,418,865 \$1,775,897	331 14	\$4,830,465 \$269,901	\$1,955,591 \$29,462	\$21,691,261 \$326,791	\$1,147,791 \$17,292
	Chaplin	0		\$3,655,279	28	\$269,901	\$29,462 \$9,430	\$326,791 \$104,592	\$17,292 \$5,534
	Eastford	4	1	\$1,834,601	20	\$356,407	\$2,117	\$23,482	\$1,243
	Hampton	8		\$3,785,455	25	\$650,176	\$46,420	\$514,890	\$27,245
	Pomfret	8		\$1,232,842	11	\$224,122	\$50,045	\$555,098	\$29,373
50 Total	Killingly	30	24 85	\$101 \$12,284,176	98	\$0 \$2,012,524	\$0 \$137,474	\$0 \$1,524,853	\$0 \$80,687
50 Total 51	Putnam	30		\$3,251,604	33	\$5,012,524 \$541,008	\$749,151	\$8,309,518	\$439.697
	Thompson	0		\$336,337	1	\$60,460	\$5,411	\$60,022	\$3,176
	Killingly	0	24	\$101	0	\$0	\$0	\$0	\$0
51 Total	01.15	30		\$3,588,042	34	\$601,468	\$754,562	\$8,369,540	\$442,873
52	Stafford	8	7 2	\$5,300,899 \$4,930,309	55	\$820,602 \$32,106	\$2,046,232 \$65,505	\$22,696,646 \$726,579	\$1,200,991 \$39,447
	Union Woodstock	11 11	2 275	\$4,839,298 \$2,883,916	2 25	\$22,106 \$510,549	\$65,505 \$113,628	\$726,579 \$1,260,356	\$38,447 \$66,692
	Somers	11	66	\$787,039	23	\$44,877	\$14,667	\$1,200,330	\$8,608
52 Total		41	350	\$13,811,152	84	\$1,398,133	\$2,240,032	\$24,846,258	\$1,314,737
53	ASHFORD	11	11	\$10,482,033	56	\$1,149,657	\$175,462	\$1,946,215	\$102,984
	Tolland	23 19		\$12,982,561	49		\$205,135	\$2,275,345	\$120,400 \$170,939
		. 19		\$19,086,320 \$6,571,961	92 31	\$2,123,916 \$517,337	\$306,389 \$34,047	\$3,398,440 \$377,651	\$179,828 \$19,984
	Willington		ΛI		اد	ψυ17,υυ7			Ψ15,504
53 Total		9			228	\$4.820.209			
54	Willington	9 62 23	508 537	\$49,122,876 \$83,355,635	228 575	\$4,820,209 \$19,527,353	\$721,034 \$16,965,437	\$7,997,651 \$188,179,263	\$423,195 \$9,957,485
54 54 Total	Willington Coventry Mansfield	9 62 23 23	508 537 537	\$49,122,876 \$83,355,635 \$83,355,635	575 575	\$19,527,353 \$19,527,353	\$721,034 \$16,965,437 \$16,965,437	\$7,997,651 \$188,179,263 \$188,179,263	\$423,195 \$9,957,485 \$9,957,485
54 54 Total	Willington Coventry Mansfield Andover	9 62 23 23 4	508 537 537 81	\$49,122,876 \$83,355,635 \$83,355,635 \$1,626,311	575 575 6	\$19,527,353 \$19,527,353 \$197,873	\$721,034 \$16,965,437 \$16,965,437 \$5,370	\$7,997,651 \$188,179,263 \$188,179,263 \$59,563	\$423,195 \$9,957,485 \$9,957,485 \$3,152
54 54 Total	Willington Coventry Mansfield Andover Bolton	9 62 23 23 4 11	508 537 537 81 64	\$49,122,876 \$83,355,635 \$83,355,635 \$1,626,311 \$1,655,478	575 575 6 7	\$19,527,353 \$19,527,353 \$197,873 \$180,805	\$721,034 \$16,965,437 \$16,965,437 \$5,370 \$46,741	\$7,997,651 \$188,179,263 \$188,179,263 \$59,563 \$518,449	\$423,195 \$9,957,485 \$9,957,485 \$3,152 \$27,434
54 54 Total	Willington Coventry Mansfield Andover Bolton Hebron	9 62 23 23 4	508 537 537 81 64	\$49,122,876 \$83,355,635 \$83,355,635 \$1,626,311 \$1,655,478 \$1,020,155	575 575 6	\$19,527,353 \$19,527,353 \$197,873 \$180,805 \$13,320	\$721,034 \$16,965,437 \$16,965,437 \$5,370 \$46,741 \$57,734	\$7,997,651 \$188,179,263 \$188,179,263 \$59,563 \$518,449 \$640,377	\$423,195 \$9,957,485 \$9,957,485 \$3,152 \$27,434 \$33,885
54 54 Total	Willington Coventry Mansfield Andover Bolton	9 62 23 23 4 11 8	508 537 537 81 64 13	\$49,122,876 \$83,355,635 \$83,355,635 \$1,626,311 \$1,655,478	575 575 6 7 2	\$19,527,353 \$19,527,353 \$197,873 \$180,805	\$721,034 \$16,965,437 \$16,965,437 \$5,370 \$46,741	\$7,997,651 \$188,179,263 \$188,179,263 \$59,563 \$518,449	\$423,195 \$9,957,485 \$9,957,485 \$3,152 \$27,434
53 Total 54 54 Total 55	Willington Coventry Mansfield Andover Bolton Hebron Marlborough	9 62 23 23 4 11 8	508 537 537 81 64 13 7 30 34	\$49,122,876 \$83,355,635 \$83,355,635 \$1,626,311 \$1,655,478 \$1,020,155 \$966,083	575 575 6 7 2 5	\$19,527,353 \$19,527,353 \$19,527,353 \$197,873 \$180,805 \$13,320 \$74,612 \$220,794 \$36,038	\$721,034 \$16,965,437 \$16,965,437 \$5,370 \$46,741 \$57,734 \$9,045	\$7,997,651 \$188,179,263 \$188,179,263 \$59,563 \$518,449 \$640,377 \$100,329	\$423,195 \$9,957,485 \$9,957,485 \$3,152 \$27,434 \$33,885 \$5,309



EC	Varanca.	44	30	<b>#2.240.520</b>	44	<b>#</b> 220 <b>7</b> 04	¢470.040	¢4 000 204	£400.40C
56	Vernon Rockville	11	30 34	\$3,248,530	11 2	\$220,794	\$170,610	\$1,892,394	\$100,136
56 Total	Rockville	11	64	\$380,019 \$3,628,548	12	\$36,038 \$256,832	\$5,403 \$176,013	\$59,924 \$1,952,318	\$3,171 \$103,307
57	East Windsor	0		\$941,047	0	\$230,632	\$205,585	\$2,280,334	\$103,307 \$120,664
31	Ellington	23		\$3,288,766	9	\$240,510	\$128,904	\$1,429,798	\$75,658
57 Total	g.co	23		\$4,229,813	9	\$240,510	\$334,490	\$3,710,132	\$196,321
58	Enfield	9		\$1,030,418	1	\$24,141	\$627,016	\$6,954,809	\$368,013
58 Total		9	3	\$1,030,418	1	\$24,141	\$627,016	\$6,954,809	\$368,013
59	Somers	11	66	\$787,039	2	\$44,877	\$14,667	\$162,677	\$8,608
	Enfield	9		\$1,030,418	1	\$24,141	\$627,016	\$6,954,809	\$368,013
59 Total		20		\$1,817,457	3	\$69,019	\$641,682	\$7,117,486	\$376,621
60	Windsor Locks	0		\$207,533	2	\$17,412	\$64,013	\$710,030	\$37,571
	Enfield	9		\$1,030,418	1	\$24,141	\$627,016	\$6,954,809	\$368,013
60 Total		9		\$1,237,951	3	\$41,553	\$691,029	\$7,664,839	\$405,584
61	Suffield	23	294	\$1,845,644	3	\$36,093	\$70,422	\$781,117	\$41,333
	East Granby	2		\$378,869	1	\$3,546	\$28,162	\$312,361	\$16,529
	Windsor	13		\$530,599	2	\$21,213	\$2,187,653	\$24,265,269	\$1,283,994
61 Total	Double and a stand	37	295	\$2,755,113	5	\$60,853	\$2,286,236	\$25,358,748	\$1,341,856
62	Barkhamsted	23		\$575,135	1 2	\$51,971	\$7,291	\$80,876	\$4,280
	Granby New Hartford	15 8		\$4,631,124 \$1,282,566	0	\$114,029 \$0	\$41,731 \$18,373	\$462,876 \$203,797	\$24,493 \$10,784
	East Granby	2		\$378,869	1	\$3,546	\$28,162	\$203,797 \$312,361	\$10,764 \$16,529
62 Total	Last Granby	47	45	\$6,867,694	4	\$169,547	\$95,557	\$1,059,910	\$56,085
63	Canaan	4	140	\$15,059	1	\$25,528	\$29,649	\$328,868	\$17,402
00	Colebrook	0		\$91,209	ó	\$0	\$860	\$9,535	\$505
	Hartland	l ő	86	\$397	Ö	\$0	\$0	\$0	\$0
	Norfolk	l o	99	\$430,490		\$118,590	\$4,607	\$51,102	\$2,704
	North Canaan	l o	o	\$3,088	2 0	\$0	\$0	\$0	\$0
	Winchester	0	30	\$343,665	ō	\$0	\$625	\$6,934	\$367
63 Total		4	358	\$883,909	3	\$144,119	\$35,741	\$396,439	\$20,978
64	Cornwall	0	4	\$208,143	0	\$0	\$500	\$5,546	\$293
	Goshen	0	8	\$70,366	0	\$0	\$752	\$8,345	\$442
	Salisbury	0	2	\$17,381	1	\$15,839	\$50	\$555	\$29
	Sharon	0	18	\$3,223	0	\$0	\$37,599	\$417,048	\$22,068
	Torrington	8	9	\$1,216,143	3	\$54,107	\$789,838	\$8,760,822	\$463,578
64 Total		8		\$1,515,257	4	\$69,946	\$828,740	\$9,192,316	\$486,410
65	Torrington	8		\$1,216,143	3	\$54,107	\$789,838	\$8,760,822	\$463,578
65 Total		8		\$1,216,143	3	\$54,107	\$789,838	\$8,760,822	\$463,578
66	Bethlehem	0		\$295,348	2	\$61,589	\$85	\$943	\$50
	Morris	0	3	\$74,408	1	\$29,218	\$25	\$277	\$15
	Warren	0		\$25,895	0	\$0	\$0	\$0	\$0
	Woodbury	11 9	9	\$46,703	0	\$0 \$22.006	\$6,190	\$68,663	\$3,633
66 Total	Litchfield	21	37 49	\$1,545,260 \$1,987,614	6	\$23,896 \$114,702	\$69,079 \$75,379	\$766,217 \$836,099	\$40,545 \$44,242
67	Kent	4	30	\$7,149	1	\$27,902	\$475	\$5,269	\$279
07	New Milford	8		\$324,973	1	\$22,345	\$19,135	\$212,242	\$11,231
67 Total	rew willord	11		\$332,122	2	\$50,247	\$19,610	\$217,511	\$11,510
68	Middlebury	6		\$193,512	1	\$2,694	\$10,040	\$111,356	\$5,893
	Watertown	15		\$513,224	3	\$57,663	\$23,163	\$256,924	\$13,595
68 Total		21	9	\$706,736	4	\$60,357	\$33,203	\$368,280	\$19,488
69	Bridgewater	0	2	\$112,032	1	\$20,733	\$12,000	\$133,103	\$7,043
	Roxbury	4	9	\$180,347	1	\$24,353	\$150	\$1,664	\$88
	Washington	4	15	\$62,752	0	\$0	\$60	\$666	\$35
	Southbury	6	14	\$473,326	3	\$55,207	\$63,175	\$700,732	\$37,079
69 Total		13	40	\$828,457	5	\$100,292	\$75,385	\$836,165	\$44,245
70	Naugatuck	6	3	\$616,599	1	\$7,557	\$1,067,108	\$11,836,275	\$626,315
70 Total		6		\$616,599	1	\$7,557	\$1,067,108	\$11,836,275	\$626,315
71	Waterbury	9		\$5,940,767	2	\$27,350	\$169,299	\$1,877,850	\$99,366
71 Total		9		\$5,940,767	2	\$27,350	\$169,299	\$1,877,850	\$99,366
72	Waterbury	9		\$5,940,767	2	\$27,350	\$169,299	\$1,877,850	\$99,366
72 Total	Waterb:::::	9	22	\$5,940,767	2	\$27,350	\$169,299 \$169,299	\$1,877,850	\$99,366
73 Total	Waterbury	3	22	\$5,940,767 \$5,940,767		\$27,350 \$27,350	+	\$1,877,850 \$1,877,850	
73 Total 74	Waterbury	9		\$5,940,767 \$5,940,767	2	\$27,350 \$27,350	\$169,299 \$169,299	\$1,877,850 \$1,877,850	\$99,366 \$99,366
74 74 Total	Waterbury	9		\$5,940,767 \$5,940,767	2 2 2 2 2	\$27,350 \$27,350	\$169,299 \$169,299	\$1,877,850 \$1,877,850	\$99,366 \$99,366
74 Total 75	Waterbury	9		\$5,940,767 \$5,940,767	2	\$27,350 \$27,350	\$169,299 \$169,299	\$1,877,850	\$99,366
75 75 Total	vv atcibuly	9		\$5,940,767 \$5,940,767	2	\$27,350 \$27,350	\$169,299 \$169,299	\$1,877,850	
76 Total	Litchfield	9		\$1,545,260	3	\$23,896	\$69,079	\$766,217	\$40,545
I. Č	Burlington	11		\$5,203,689	0	\$0	\$44,827	\$497,217	\$26,310
	Harwinton	11		\$1,539,176	o	\$0	\$19,348	\$214,609	\$11,356
	Thomaston	4		\$390,197	1	\$46,592	\$7,799	\$86,502	\$4,577
76 Total		36		\$8,678,321	4	\$70,488	\$141,053	\$1,564,544	\$82,788
77	Bristol	11		\$3,220,691	2	\$38,014	\$125,824	\$1,395,634	\$73,850
77 Total		11	79	\$3,220,691	2	\$38,014	\$125,824	\$1,395,634	\$73,850
78	Bristol	11	79	\$3,220,691	2 2 2 0	\$38,014	\$125,824	\$1,395,634	\$73,850
	Plymouth	0		\$274,656		\$0	\$136	\$1,507	\$80
78 Total		11		\$3,495,346	2 2	\$38,014	\$125,960	\$1,397,141	\$73,930
79	Bristol	11		\$3,220,691	2	\$38,014	\$125,824	\$1,395,634	\$73,850
	Southington	9		\$1,422,416	0	\$0	\$32,857	\$364,447	\$19,285
79 Total		21		\$4,643,106	2	\$38,014	\$158,681	\$1,760,082	\$93,135
80	Southington	9		\$1,422,416	0	\$0	\$32,857	\$364,447	\$19,285
	Wolcott	26		\$361,683	1	\$5,289	\$61,987	\$687,557	\$36,382
80 Total	O a continuo de	36		\$1,784,099	1	\$5,289	\$94,844	\$1,052,005	\$55,667
81	Southington	9		\$1,422,416	0	\$0	\$32,857	\$364,447	\$19,285
81 Total	Moridos	9		\$1,422,416	0	\$0 \$7.615	\$32,857	\$364,447	\$19,285
82	Meriden	6		\$814,774	1	\$7,615	\$427,838	\$4,745,541	\$251,110
92 T-4-1	Middlefield	4		\$247,765	0	\$0 \$7,615	\$2,451	\$27,189	\$1,439 \$252,548
82 Total		10	37	\$1,062,538	1	\$7,615	\$430,288	\$4,772,730	azoz.548



83	Meriden	6	28	\$814,774	1	\$7,615	\$427,838	\$4,745,541	\$251,110
	Wallingford	12	3	\$287,703	1	\$13,542	\$103,887	\$1,152,299	\$60,974
83 Total	Manidan	18	31	\$1,102,476	1	\$21,157	\$531,724	\$5,897,840	\$312,083
84 84 Total	Meriden	6	28 28	\$814,774 \$814,774	1	\$7,615 \$7,615	\$427,838 \$427,838	\$4,745,541 \$4,745,541	\$251,110 \$251,110
85	Wallingford	12	31	\$287,703	1	\$13,542	\$103,887	\$1,152,299	\$60,974
85 Total		12	31	\$287,703	1	\$13,542	\$103,887	\$1,152,299	\$60,974
86	East Haven	6	8	\$139,258	0	\$0	\$56,754	\$629,508	\$33,311
	Guilford North Branford	13 0	5 10	\$308,197 \$189,068	0	\$0 \$17,249	\$230,213 \$231,547	\$2,553,504 \$2,568,300	\$135,119 \$135,901
86 Total	Notal Braillord	19	23	\$636,522	1	\$17,249	\$518,514	\$5,751,312	\$304,330
87	North Haven	11	2	\$436,580	1	\$1,537	\$198,842	\$2,205,535	\$116,706
	Hamden	5	4	\$308,014	1	\$6,825	\$236,988	\$2,628,651	\$139,095
87 Total 88	North Haven	16 11	6 2	\$744,594 \$436,580	1	\$8,362 \$1,537	\$435,830 \$198,842	\$4,834,187 \$2,205,535	\$255,800 \$116,706
00	Hamden	5		\$308,014	1	\$6,825	\$236,988	\$2,628,651	\$139,095
	New Haven	4	15	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
88 Total	Object his	20	21	\$1,128,246	2	\$36,483	\$2,170,983	\$24,080,369	\$1,274,210
89	Cheshire East Haven	18 6	14 8	\$1,151,088 \$139,258	1 0	\$9,375 \$0	\$5,237,867 \$56,754	\$58,097,999 \$629,508	\$3,074,249 \$33,311
	Bethany	8		\$356,443	o	\$0	\$2,309	\$25,615	\$1,355
	Prospect	11	0	\$411,406	0	\$0	\$7,444	\$82,572	\$4,369
89 Total	NAZ - III'm me e mad	42	22	\$2,058,195	1	\$9,375	\$5,304,375	\$58,835,695	\$3,113,284
90	Wallingford Cheshire	12 18	14	\$287,703 \$1,151,088	1	\$13,542 \$9,375	\$103,887 \$5,237,867	\$1,152,299 \$58,097,999	\$60,974 \$3,074,249
90 Total	Officarille	30	17	\$1,438,791	1	\$22,917	\$5,341,753	\$59,250,299	\$3,135,223
91	Hamden	5	4	\$308,014	1	\$6,825	\$236,988	\$2,628,651	\$139,095
91 Total	Name I Iana	5	4	\$308,014	1	\$6,825	\$236,988	\$2,628,651	\$139,095
92 92 Total	New Haven	4	17 17	\$383,652 \$383,652	1	\$28,121 \$28,121	\$1,735,153 \$1,735,153	\$19,246,182 \$19,246,182	\$1,018,410 \$1,018,410
93	New Haven	4	17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
93 Total		4	17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
94	New Haven	4	17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
94 Total 95	New Haven	4	17 17	\$383,652 \$383,652	1	\$28,121 \$28,121	\$1,735,153 \$1,735,153	\$19,246,182 \$19,246,182	\$1,018,410 \$1,018,410
95 Total	14cW Haven	4	17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
96	New Haven	4	17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
96 Total 97	Name Harrage	4	17 17	\$383,652	1	\$28,121	\$1,735,153	\$19,246,182	\$1,018,410
97 97 Total	New Haven	4	17	\$383,652 \$383,652	1	\$28,121 \$28,121	\$1,735,153 \$1,735,153	\$19,246,182 \$19,246,182	\$1,018,410 \$1,018,410
98	Guilford	13	5	\$308,197	0	\$0	\$230,213	\$2,553,504	\$135,119
	Branford	3	0	\$425,776	1	\$51,171	\$139,633	\$1,548,794	\$81,954
98 Total 99	Branford	16 3	5	\$733,973	1	\$51,171 \$51,171	\$369,846	\$4,102,298	\$217,073 \$81,954
99 Total	Biailioiu	3	0	\$425,776 \$425,776	1	\$51,171 \$51,171	\$139,633 \$139,633	\$1,548,794 \$1,548,794	\$81,954
100	Durham	15	14	\$547,578	1	\$1,443	\$28,039	\$311,005	\$16,457
	Middletown	17	25	\$1,147,747	1	\$18,943	\$558,836	\$6,198,561	\$327,996
100 Total	Middlefield	4 36	9	\$247,765 \$1,943,090	0 2	\$0 \$20,386	\$2,451 \$589,325	\$27,189 \$6,536,755	\$1,439 \$345,892
100 Total	Clinton	2	2	\$186,932	1	\$10,307	\$11,956	\$132,611	\$7,017
	Killingworth	11	22	\$626,068	1	\$35,238	\$212,532	\$2,357,390	\$124,741
101 <del>-</del> 1 1	Madison	49		\$759,924	0	\$0	\$219,943	\$2,439,585	\$129,090
101 Total 102	Branford	62 3	38 0	\$1,572,924 \$425,776	2	\$45,545 \$51,171	\$444,430 \$139,633	\$4,929,586 \$1,548,794	\$260,848 \$81,954
102 Total	Diamora	3	0	\$425,776	1	\$51,171 \$51,171	\$139,633	\$1,548,794	\$81,954
103	Cheshire	18	14	\$1,151,088	1	\$9,375	\$5,237,867	\$5,822,899	\$3,074,249
	Hamden	5	4	\$308,014	1	\$6,825	\$236,988	\$4,685,857	\$139,095
103 Total	Wallingford	12 34	3 21	\$287,703 \$1,746,805	1 2	\$13,542 \$29,742	\$103,887 \$5,578,741	\$1,152,299 \$11,661,055	\$60,974 \$3,274,318
104	Ansonia	4	0	\$50,865	0	\$0	\$4,955	\$54,953	\$2,908
	Derby	2	6	\$83,953	0	\$0	\$33	\$368	\$20
104 Total	A	6		\$134,818		\$0	\$4,988		\$2,928
105	Ansonia Beacon Falls	4		\$50,865 \$495,193	0	\$0 \$0	\$4,955 \$2,447	\$54,953 \$27,145	\$2,908 \$1,436
	Seymour	8		\$367,010	o	\$0	\$8,762,087	\$97,188,365	\$5,142,711
105 Total		11	113	\$913,068	0	\$0	\$8,769,489	\$97,270,463	\$5,147,056
106	Bethel	13		\$119,759	2 0	\$30,548	\$27,758	\$307,882	\$16,292
106 Total	Newtown	6 19	0	\$965,197 \$1,084,956		\$9,697 \$40,245	\$2,474,382 \$2,502,140	\$27,445,646 \$27,753,528	\$1,452,283 \$1,468,575
107	Bethel	13		\$119,760	2 2 0	\$30,548	\$27,758	\$307,882	\$16,292
	Brookfield	4	3	\$517,259		\$0	\$18,577	\$206,053	\$10,903
107 Total 108	Now Exirtials	17 4	8	\$637,018 \$136,470	2 0	\$30,548	\$46,334	\$513,935 \$10,967	\$27,195 \$575
100	New Fairfield Sherman	4	52	\$136,479 \$42,598	0	\$0 \$0	\$980 \$505	\$10,867 \$5,601	\$575 \$296
	New Milford	8	0	\$324,973	1	\$22,345	\$19,135	\$212,242	\$11,231
108 Total		15		\$504,050	1	\$22,345	\$20,620	\$228,710	\$12,102
109 109 Total	Danbury	10 10		\$299,969 \$299,969	1	\$7,373 \$7,373	\$74,145 \$74,145	\$822,411 \$822,411	\$43,518 \$43,518
109 Total	Danbury	10		\$299,969 \$299,969	1	\$7,373 \$7,373	\$74,145 \$74,145	\$822,411 \$822,411	\$43,518 \$43,518
110 Total		10		\$299,969	1	\$7,373	\$74,145	\$822,411	\$43,518
111	Ridgefield	0	1	\$286,734	1	\$64,896	\$10,679	\$118,445	\$6,268
111 Total 112	Monroe	0 11	1 2	\$286,734 \$578,562	1 0	\$64,896 \$0	\$10,679 \$12,289	\$118,445 \$136,304	\$6,268 \$7,213
1 12	Newtown	6		\$965,197	0	\$9,697	\$2,474,382	\$27,445,646	\$1,452,283
112 Total		18	2	\$578,562	0	\$9,697	\$2,486,671	\$27,581,949	\$1,459,496
113	Shelton	8	1	\$136,091	1	\$29,728	\$33,257	\$368,881	\$19,519
113 Total		8	1	\$136,091	1	\$29,728	\$33,257	\$368,881	\$19,519



Derby 2 6 83,3657 0 350	114	Maadhridaa	10	1	£40.727	4	\$31,188	\$144,407	£4 CO4 7E0	£04 757
Orange	114	Woodbridge	19		\$19,737	1			\$1,601,753	\$84,757
114 Total   36						0				
West Newer	114 Total	Orange		7		1				
110 Total   110 Total   110 Total   110 Total   110 Total   121 Total   131 Total   131 Total   132 Total   132 Total   132 Total   133 Total   134 Total   135 Total   136 Total   136 Total   137 Total   137 Total   138 Total   138 Total   138 Total   139 Total   130 Total   131 Total   131 Total   132 Total   132 Total   132 Total   133 Total   134 Total   135 Total   135 Total   136 Total   136 Total   137 Total   137 Total   138 To		Woot Hoven		,						
West Hawon		vvest naven				1				
18 Total   6   0   3144_277   1   \$3.041   \$102.207   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$1.057   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.056   \$0.057   \$1.141_427   \$0.057   \$0.057   \$1.141_427   \$1.141_427		Woot Hoven				1				
1177   Orange		West naven				1				
West Haven    Section   Commonwealth		0		0		,				
Wilford	117					1				
117 Total   110				0		1				
118 Millord	44774	IVIIITOI'G		4						
118 Total   118 Total   118   4   \$228.419   0   \$17,701   \$482,024   \$5,346,571   \$282,015   \$1187 Total   118		NAME								
Maillord		Milford		4						
110 Total   110		A 4116		4						
200   Stratford   4   0   \$231,338   0   \$9,777   \$877,671   \$972,440   \$51,457   \$120 Total   4   0   \$223,338   0   \$3,777   \$877,671   \$972,440   \$51,457   \$121 Total   4   0   \$231,338   0   \$3,777   \$877,671   \$972,440   \$51,457   \$121 Total   \$1   \$1   \$1   \$1   \$1   \$1   \$1   \$		Milford								
120 Total										
121   Strafford		Stratford								
122 Total 122 Pishelon 1 \$1 \$10,000 \$1 \$291,338 \$1 \$0 \$87,67 \$87,671 \$972,440 \$51,457 \$10,272			·							
Shelton   S		Stratford		-						
Stratford				0						
Trumbull   8	122		8	1						
122 Total   19				0			\$9,757	\$87,671		
Tumbul   8		Trumbull	-	0		0				\$27,918
123 Total				1		1				\$98,894
124		Trumbull								\$27,918
124 Total 125 Bindgeport 13										\$27,918
124 Total   3   21   S345,876   1   S7,119   \$186,692   \$2,070,770   \$109,575   125 Total   3   21   S345,876   1   S7,119   \$186,692   \$2,070,770   \$109,575   126 Bridgeport   3   21   S345,876   1   S7,119   \$186,692   \$2,070,770   \$109,575   126 Total   3   21   S345,876   1   S7,119   \$186,692   \$2,070,770   \$109,575   126 Total   3   21   S345,876   1   S7,119   \$186,692   \$2,070,770   \$109,575   127 Total   6   6   6   6   6   6   6   6   6		Bridgeport	3			1				\$109,575
125	124 Total		3	21	\$345,876	1	\$7,119	\$186,692		\$109,575
126	125	Bridgeport	3	21	\$345,876	1	\$7,119	\$186,692	\$2,070,770	\$109,575
126 Total	125 Total		3	21	\$345,876	1	\$7,119	\$186,692	\$2,070,770	\$109,575
126 Total	126	Bridgeport	3	21	\$345,876	1	\$7,119	\$186,692	\$2,070,770	\$109,575
127   Bridgeport   3	126 Total		3	21	\$345,876	1	\$7,119	\$186,692	\$2,070,770	\$109,575
Fairfield 8 6 \$218.621 1 \$8.820 \$61.969 \$687.354 \$33.371 127 Total 12 27 \$564.497 1 \$15.939 \$248.661 \$2.769.124 \$145.948 128 Bridgeport 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 129 Bridgeport 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 129 Otal 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 130 Bridgeport 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 130 Bridgeport 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 130 Otal 3 21 \$345.676 1 \$7.119 \$186.692 \$2.070,770 \$109.575 131 Oxford 11 9 \$229.452 0 \$0.50 \$2.700 \$2.070,770 \$109.575 131 Oxford 11 9 \$229.452 0 \$0.50 \$2.700,170 \$109.575 131 Oxford 11 9 \$229.452 0 \$0.50 \$2.700,170 \$119.575 131 Total \$2.00 \$2.		Bridgeport	3			1	\$7,119			\$109,575
127 Total 128 Bridgeport 129 Bridgeport 130 Bridgeport 131 S345,876 1 S7,119 S186,692 \$2,070,770 \$109,575 129 Bridgeport 132 S345,876 1 S7,119 S186,692 \$2,070,770 \$109,575 129 Total 130 Bridgeport 131 S345,876 1 S7,119 S186,692 \$2,070,770 \$109,575 129 Total 131 S145,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Bridgeport 132 S345,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Bridgeport 133 21 S345,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Total 131 Oxford 111 9 \$229,452 0 \$0 \$0 \$27,501 \$305,041 \$16,414 131 Oxford 131 S145,874 132 S145,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Total 131 Oxford 131 S145,874 132 S145,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Total 131 Total 132 S145,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Total 131 Total 132 S145,876 1 S7,119 S186,692 \$2,070,770 \$109,575 130 Total 131 Total 132 S145 132 Fairfield 134 S473,326 \$3,555,207 \$63,175 \$700,732 \$37,075 130 Total 135 Fairfield 136 S1,128,884 137 S145,874 138 Fairfield 137 S145,874 138 S145,874 139 Fairfield 138 S145,874 139 Fairfield 140 S145,874 139 S			8	6		1				
128	127 Total		12			1				
128 Total		Bridgeport				1				
129   Bridgeport   3   21   \$345.876   1   \$7.119   \$186.692   \$2.070.770   \$109.575						1				
129 Total 130 Birdgeport 130 Birdgeport 130 Birdgeport 131 Cyford 132 Cyford 133 Cyford 134 Cyford 135 Cyford 135 Cyford 136 Cyford 137 Cyford 138 Cyford 139 Cyford 130 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 132 Cyford 133 Cyford 134 Cyford 135 Cyford 135 Cyford 136 Cyford 137 Cyford 138 Cyford 139 Cyford 139 Cyford 130 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 132 Cyford 132 Cyford 133 Cyford 134 Cyford 135 Cyford 135 Cyford 136 Cyford 137 Cyford 137 Cyford 138 Cyford 138 Cyford 139 Cyford 139 Cyford 130 Cyford 130 Cyford 131 Cyford 131 Cyford 131 Cyford 131 Cyford 132 Cyford 132 Cyford 133 Cyford 134 Cyford 135 Cyford 136 Cyford 137 Cyford 137 Cyford 138 Cyford 139 Cyford 130 Cyford 130 Cyford 130 Cyford 130 Cyford 130 Cyford 131 Cyford 131 Cyford 132 Cyford 132 Cyford 133 Cyford 134 Cyford 135 Cyford 136 Cyford 137 Cyford 137 Cyford 138 Cyford 139 Cyford 130 Cyford		Bridgeport				1				
130   Bridgeport   3						1				
130 Total		Bridgeport				1				
Oxford   11		Bridgoport				1				
Middlebury 6 1 \$193,512 1 \$2,694 \$10,040 \$111,356 \$5,892 \$30,000 \$111,356 \$3,892 \$37,073 \$35,000 \$111,356 \$3,892 \$37,073 \$35,000 \$111,356 \$3,892 \$37,000 \$131,000 \$111,356 \$3,892 \$37,000 \$131,000 \$111,0		Oxford	-							
Southbury   6	101					1				
Naugatuck 6 3 \$616,599 1 \$7,557 \$1,067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$622,315 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,108 \$11,836,275 \$1067,109 \$108,135 \$109,101 \$108,275 \$1007,109 \$108,116,109 \$108,116,109 \$108,116,109 \$108,116,109 \$108,116,109 \$108,116,109 \$109,101 \$108,116,109 \$109,101 \$108,116,109 \$109,101 \$108,116,109 \$109,101 \$109,						3				
131 Total 132 Fairfield 133 Fairfield 134 Fairfield 135 Fairfield 136 Fairfield 137 Fairfield 138 Fairfield 138 Fairfield 139 Fairfield 130 Fairfield 130 Fairfield 131 Fairfield 131 Fairfield 132 Fairfield 133 Fairfield 134 Fairfield 135 Fairfield 135 Fairfield 136 Fairfield 137 Fairfield 138 Fairfield 138 Fairfield 139 Fairfield 140 Fairfield 151 Fairfield 152 Fairfield 153 Fairfield 153 Fairfield 154 Fairfield 155 Fairfield 155 Fairfield 155 Fairfield 155 Fairfield 156 Fairfield 157 Fairfield 157 Fairfield 158 Fairfield 158 Fairfield 158 Fairfield 159 Fairfield 150 Fairfield 150 Fairfield 151 Fairfield 151 Fairfield 152 Fairfield 153 Fairfield 154 Fairfield 155 Fairfield 155 Fairfield 156 Fairfield 157 Fairfield 158 Fairfield 158 Fairfield 159 Fairfield 150 Fa						1				
Fairfield	131 Total	rvaugatuck	_			1				
132 Total		Egirfield				4				
Fairfield   S		raii ilelu				1				
Westport         4         15         \$41,133         0         \$0         \$15,639         \$6,101         \$322           133 Total         12         26         \$421,874         1         \$8,820         \$74,158         \$822,555         \$43,526           134 Trumbull         8         0         \$188,140         0         \$0         \$47,566         \$527,600         \$27,918           Fairfield         8         6         \$218,621         1         \$8,820         \$61,969         \$687,354         \$36,371           134 Total         16         6         \$406,762         1         \$8,820         \$199,535         \$1,214,953         \$64,288           135 Easton         15         0         \$198,314         0         \$0         \$129,020         \$1,431,075         \$75,725           Redding         0         15         \$1,644,051         0         \$0         \$36,725         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,555		Cainfield				,				
Westport   4	133					•				
133 Total         12         26         \$421,874         1         \$8,820         \$74,158         \$822,555         \$43,526           134 Trumbull Fairfield         8         0         \$188,140         0         \$0         \$47,566         \$527,600         \$27,918           134 Total         16         6         \$218,621         1         \$8,820         \$109,535         \$1,214,953         \$64,288           135 Easton         15         0         \$198,314         0         \$0         \$129,020         \$1,431,075         \$75,725           Redding         0         15         \$1,644,051         0         \$0         \$36,725         \$407,351         \$21,555         \$407,351         \$21,555         \$18,840         \$18,840         \$19,920         \$1,431,075         \$75,725         \$72,525         \$407,351         \$21,555         \$1,44,953         \$0         \$55,725         \$407,351         \$21,555         \$1,424,953         \$40,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282         \$10,964,282			1	-		-				
Trumbul	400 T 4 1	vvestport				0				
Fairfield 8 6 \$218,621 1 \$8,820 \$61,969 \$687,354 \$363,754   134 Total 16 6 \$406,762 1 \$8,820 \$109,535 \$1,214,953 \$64,285   135 Easton 15 0 \$198,314 0 \$0 \$109,535 \$1,214,953 \$64,285   136 Redding 0 15 \$1,644,051 0 \$0 \$36,725 \$407,351 \$21,555   Newtown 6 0 \$321,732 0 \$9,697 \$2,474,382 \$27,445,646 \$1,452,283   Weston 0 5 \$41,133 0 \$0 \$0 \$555 \$6,101 \$323   135 Total 21 20 \$2,205,230 0 \$9,697 \$2,640,677 \$29,290,173 \$1,549,886   136 Westport 4 15 \$162,119 0 \$0 \$1,639 \$129,101 \$6,832   137 Norwalk 6 5 \$254,011 1 \$10,573 \$69,284 \$768,492 \$40,665   137 Norwalk 6 6 5 \$254,011 1 \$10,573 \$69,284 \$768,492 \$40,665   138 Total 180 Danbury 10 3 \$299,969 1 \$7,373 \$74,145 \$822,411 \$43,518   138 Danbury 10 3 \$299,969 1 \$7,373 \$74,145 \$822,411 \$43,518   139 Bozrah 8 16 \$302,566 2 \$21,720 \$26,949 \$298,915 \$15,817   Franklin 0 0 \$31,367 0 \$0 \$88 \$977 \$25  \$15,817   Franklin 15 \$25,871 1 \$10,573 \$69,284 \$768,492 \$40,665   139 Total 19 \$10,573 \$10,573 \$69,284 \$768,492 \$40,665   139 Total 19 \$10,573 \$69,284 \$768,492 \$40,665   139 Danbury 10 3 \$299,969 1 \$7,373 \$74,145 \$822,411 \$43,518   139 Bozrah 8 16 \$302,566 2 \$21,720 \$26,949 \$298,915 \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$1,31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$31,367 0 \$0 \$88 \$977 \$52  \$15,817   Franklin 0 \$0 \$1,31,318   Franklin 0 \$0 \$1,31,317 \$10,573 \$59,284 \$768,492 \$40,665 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000		Torona horall				1				
134 Total         16         6         \$406,762         1         \$8,820         \$109,535         \$1,214,953         \$64,285           135         Easton         15         0         \$198,314         0         \$0         \$129,020         \$1,431,075         \$75,725           Redding         0         15         \$1,644,051         0         \$0         \$36,725         \$407,351         \$21,555         \$407,351         \$21,555         \$407,351         \$21,552         \$407,351         \$21,552         \$407,351         \$21,552         \$407,351         \$21,552         \$407,351         \$41,52,283         \$27,445,646         \$1,452,283         \$27,445,646         \$1,452,283         \$25,4011         \$323         \$323         \$323         \$325         \$325         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,456,649         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445,646         \$1,452,283         \$327,445         \$42,441         \$1,442,473         \$1,442,473         \$1,442,473         \$1,4	134					0				
Easton	104 T-1-1	гаппею				1				
Redding Newtown         0         15         \$1,644,051         0         \$0         \$36,725         \$407,351         \$21,555           Weston         0         5321,732         0         \$9,697         \$2,474,382         \$27,445,646         \$1,452,283           135 Total         21         20         \$2,205,230         0         \$9,697         \$2,640,677         \$29,290,173         \$1,549,886           136 Westport         4         15         \$162,119         0         \$0         \$11,639         \$129,101         \$6,832           Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           137 Total         9         20         \$416,130         1         \$10,573         \$69,284         \$897,592         \$69,284           137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$897,592         \$69,284           138 Dabury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         <		Factor				1				
Newtown   Newt	135									
Weston         0         5         \$41,133         0         \$0         \$550         \$6,101         \$323           135 Total         21         20         \$2,205,230         0         \$9,697         \$2,9,20,173         \$1,549,896           136         Westport         4         15         \$162,119         0         \$0         \$11,639         \$129,101         \$6,832           Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           136 Total         9         20         \$416,130         1         \$10,573         \$69,284         \$897,592         \$69,284           137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           138 Danbury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518										
135 Total         21         20         \$2,205,230         0         \$9,697         \$2,640,677         \$29,290,173         \$1,549,886           136         Westport         4         15         \$162,119         0         \$0         \$11,639         \$129,101         \$6,832           Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$897,592         \$40,665           136 Total         9         20         \$416,130         1         \$10,573         \$69,284         \$897,592         \$69,284           137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           138 Danbury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           139 Bozrah         8         16         \$302,566         2         \$21,720         \$26,949         \$298,915         \$15,418           139 Total         9         \$31,367         0         \$0         \$88         \$974										
136   Westport	405 T : 1	vveston	•			-				
Norwalk		1								
136 Total         9         20         \$416,130         1         \$10,573         \$69,284         \$897,592         \$69,284           137 Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           138 Dotal         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           139 Bozrah         8         16         \$302,566         2         \$21,720         \$26,949         \$298,915         \$15,411           139 Franklin         0         0         \$31,367         0         \$0         \$88         \$974         \$52           Montville         2         5         \$28,718         0         \$0         \$88         \$974         \$52           139 Total         5         \$24,812,270         14         \$177,265         \$7,270         \$635,236         \$33,614           139 Total         5         \$24,813,922         16         \$198,985         \$84,332         \$935,402         \$40,665           140 Total<	136									
137         Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           138 Danbury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           139 Bozrah         8         16         \$302,566         2         \$21,720         \$26,949         \$298,915         \$15,817           Franklin         0         0         \$31,367         0         \$0         \$88         \$974         \$52           Montville         2         5         \$28,718         0         \$0         \$88         \$974         \$52           Lebanon         6         3         \$1,21,270         14         \$177,265         \$57,270         \$635,236         \$33,614           139 Total         15         25         \$2,183,922         16         \$198,985         \$84,332         \$935,402         \$49,	100 T : :	Norwalk				1				
137 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           138 Danbury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           139 Bozrah         8         16         \$302,566         2         \$21,720         \$26,949         \$299,915         \$15,817           Franklin         0         0         \$31,367         0         \$0         \$88         \$974         \$52           Montville         2         5         \$2,87,18         0         \$0         \$25         \$277         \$15           Lebanon         6         3         \$1,821,270         14         \$177,265         \$57,270         \$635,236         \$33,614           139 Total         15         25         \$2,183,922         16         \$198,985         \$84,332         \$935,402         \$49,497           140         Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$4						1				
138         Danbury         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           138 Total         10         3         \$299,969         1         \$7,373         \$74,145         \$822,411         \$43,518           139         Bozrah         8         16         \$302,566         2         \$21,720         \$26,949         \$298,915         \$15,817           Franklin         0         0         \$31,367         0         \$0         \$88         \$974         \$52           Montville         2         5         \$28,718         0         \$0         \$25         \$277         \$15           Lebanon         6         3         \$1,821,270         14         \$177,265         \$57,270         \$635,236         \$33,614           139 Total         15         25         \$2,183,922         16         \$198,985         \$84,332         \$935,402         \$49,497           140         Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           141         Darien         4         0         \$87,128         1         \$44,779         \$12		Norwalk				1				
138 Total     10     3     \$299,969     1     \$7,373     \$74,145     \$822,411     \$43,518       139     Bozrah     8     16     \$302,566     2     \$21,720     \$26,949     \$298,915     \$15,817       Franklin     0     0     \$31,367     0     \$0     \$88     \$974     \$52       Montville     2     5     \$28,718     0     \$0     \$25     \$277     \$15       Lebanon     6     3     \$1,821,270     14     \$177,265     \$57,270     \$635,236     \$33,614       139 Total     15     25     \$2,183,922     16     \$198,985     \$84,332     \$935,402     \$49,497       140     Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       141     Darien     4     0     \$87,128     1     \$44,779     \$124,090     \$1,376,399     \$72,832       Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       141     Darien     4     0     \$87,128     1     \$44,779     \$124,090     \$1,376,399     \$72,832       142     0     \$1,376,289     \$1,376,399     \$72,832     <						1				
Bozrah		Danbury				1				
Franklin Montville         0         0         \$31,367 b         0         \$0         \$88 b         \$974 b         \$52 b         \$277 b         \$15 b         \$28,718 b         0         \$0         \$25 b         \$277 b         \$15 b         \$15 b         \$18 b         \$18 b         \$27 b         \$177,265 b         \$57,270 b         \$635,236 b         \$33,614 b         \$33,614 b         \$33,614 b         \$34,332 b         \$35,402 b         \$49,497 b         \$40,497 b         \$40,497 b         \$40,497 b         \$40,665 b         <						1				
Montville	139									\$15,817
Lebanon         6         3         \$1,821,270         14         \$177,265         \$57,270         \$635,236         \$33,614           139 Total         15         25         \$2,183,922         16         \$198,985         \$84,332         \$935,402         \$49,497           140 Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           140 Total         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665           141 Darien         4         0         \$87,128         1         \$44,779         \$124,090         \$1,376,399         \$72,832           Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665										\$52
139 Total     15     25     \$2,183,922     16     \$198,985     \$84,332     \$935,402     \$49,497       140     Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       140 Total     6     5     \$254,011     1     \$11,573     \$69,284     \$768,492     \$46,665       141     Darien     4     0     \$87,128     1     \$44,779     \$124,090     \$1,376,399     \$72,832       Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665										
140     Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       140 Total     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       141     Darien     4     0     \$87,128     1     \$44,779     \$124,090     \$1,376,399     \$72,832       Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665		Lebanon								
140 Total     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665       141     Darien     4     0     \$87,128     1     \$44,779     \$124,090     \$1,376,399     \$72,832       Norwalk     6     5     \$254,011     1     \$10,573     \$69,284     \$768,492     \$40,665	139 Total					16				\$49,497
141         Darien         4         0         \$87,128         1         \$44,779         \$124,090         \$1,376,399         \$72,832           Norwalk         6         5         \$254,011         1         \$10,573         \$69,284         \$768,492         \$40,665		Norwalk		5		1	\$10,573			\$40,665
Norwalk 6 5 \$254,011 1 \$10,573 \$69,284 \$768,492 \$40,665	140 Total		6	5		1	\$10,573		\$768,492	\$40,665
	141	Darien				1			\$1,376,399	\$72,832
141 Total 9 5 \$341,139 2 \$55,351 \$193,374 \$2,144,890 \$113,497		Norwalk	6	5		1	\$10,573		\$768,492	\$40,665
	141 Total		9	5	\$341,139	2	\$55,351	\$193,374	\$2,144,890	\$113,497



142	Wilton	4	1	\$528,063	1	\$3,249	\$21,529	\$238,800	\$12,636
142 Total		4	1	\$528,063	1	\$3,249	\$21,529	\$238,800	\$12,636
143	Wilton	4	1	\$528,063	1	\$3,249	\$21,529	\$238,800	\$12,636
	New Canaan	4	0	\$110,067	0	\$0	\$4,378	\$48,555	\$2,570
143 Total		8	1	\$638,130	1	\$3,249	\$25,907	\$287,355	\$15,206
144	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
144 Total		3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
145	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
145 Total		3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
146	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
146 Total		3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
147	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
	New Canaan	4	0	\$110,067	0	\$0	\$4,378	\$48,555	\$2,570
147 Total		7	5	\$497,805	3	\$46,761	\$233,346	\$2,588,252	\$136,957
148	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
148 Total		3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
149	Stamford	3	5	\$387,738	3	\$46,761	\$228,968	\$2,539,697	\$134,388
	Greenwich	5	5	\$102,447	0	\$4,997	\$228,697	\$2,536,691	\$134,229
149 Total		8	10	\$490,186	3	\$51,758	\$457,666	\$5,076,388	\$268,617
150	Greenwich	5	5	\$102,447	0	\$4,997	\$228,697	\$2,536,691	\$134,229
150 Total		5	5	\$102,447	0	\$4,997	\$228,697	\$2,536,691	\$134,229
151	Greenwich	5	5	\$102,447	0	\$4,997	\$228,697	\$2,536,691	\$134,229
151 Total		5	5	\$102,447	0	\$4,997	\$228,697	\$2,536,691	\$134,229

