

Development of a Web-based Economic Impact Calculator for Marinas in the United States

Sponsored project report to Association of Marina Industries, Warren, RI

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Summary

The objective of this sponsored research project was to develop a web-based tool (application) for calculation of economic impacts of commercial marina operations in the United States, under the sponsorship of the Association of Marina Industries (AMI). Annual financial statement information was obtained for 42 commercial marinas in the U.S. and compiled into a database to calculate a weighted average profile of income and expenditures. Economic models were constructed for seven regions of the U.S. (Atlantic-North, Atlantic-South, Gulf of Mexico, Great Lakes, Pacific-North, Pacific-South, Central) using the *Implan* software and associated economic databases for 2013 (Implan Group, LLC). The economic models were customized to reflect the specific operating characteristics of commercial marinas based on the profile of expenditures. Tables of economic multipliers were developed for each region. The marina economic impact calculator website application was developed using MySQL and PHP programming language. Inputs required by users of the website are gross annual revenues, year of data, and location selected from a pull-down menu of states. The calculator generates a report showing economic impacts for industry output (revenues), labor income (employee compensation/benefits and proprietor income), value added (Gross Domestic Product), employment (fulltime and part-time jobs), and taxes paid to state/local and federal governments. The results also show impacts by major economic sector according to the North American Industry Classification System (NAICS). Results represent prevailing relationships in the regions, but can be interpreted as impacts at the state level. Reports can be saved as a Portable Document File (pdf). The website has user controls requiring users to login with a username and password. Administrator tools are provided for user account management and statistical summaries of user reports. The calculator tool application code will be transferred for permanent hosting on the AMI website.

Introduction: Economic Impact Analysis

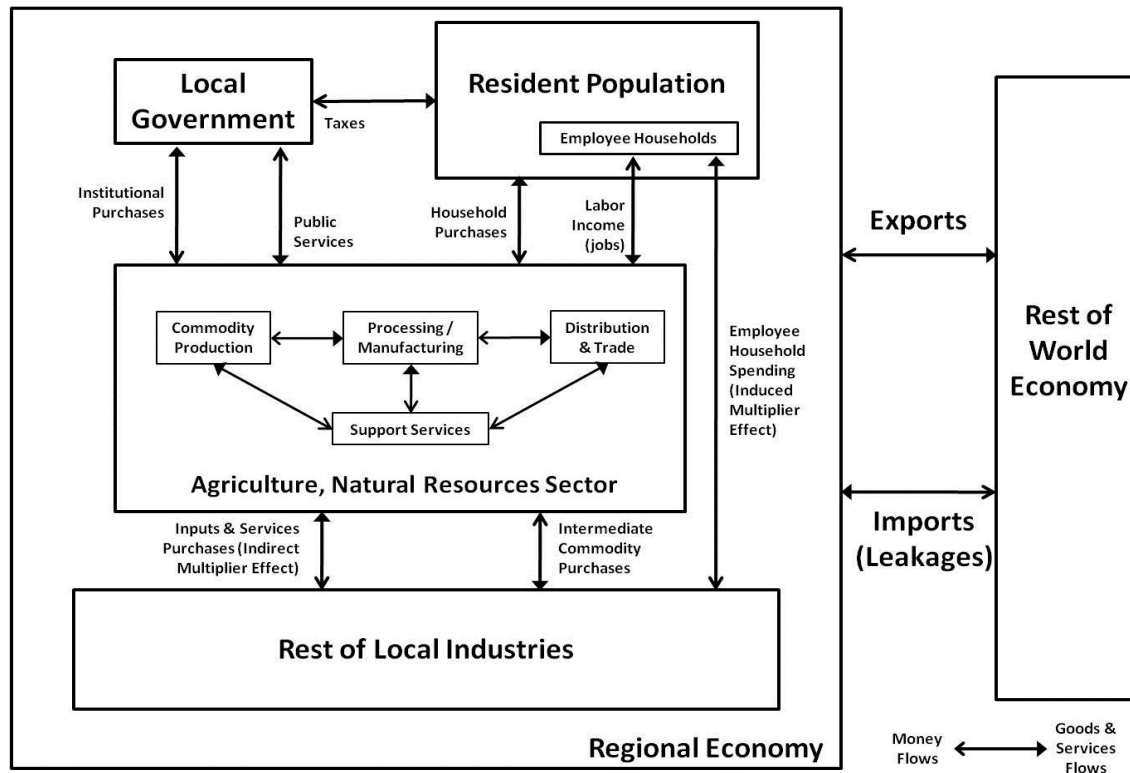
Assessment of the economic contributions of specific industries is important to making informed public policy decisions regarding economic and community development, job creation, environmental regulation, labor and human resources, and taxation, among other issues.

Regional economic impact analysis is typically conducted using a technique known as input-output analysis/social accounting matrices (IO-SAM), which develops models that represents a regional economy in terms of relationships between producers and consumers¹. This analytical approach is based on the notion that any activity that generates payments has an effect on other parts of a given economy. An expenditure by one entity becomes income to another entity. As an analogy, a stone thrown into a lake generates waves that spread out in all directions. In economic impact analysis, these secondary effects are measured through economic

¹ Miller, R.E and P.D Blair. Input-output analysis: foundations and extensions, 2nd ed. Cambridge University Press, Cambridge, U.K, 750 pages, 2009.

multipliers for each type of activity (industry sector) obtained from regional economic models. The relationships captured in IO-SAM models are illustrated in Figure 1.

Figure 1. Diagram of linkages in a regional economy



Models for the marina economic impact calculator application were developed using the *IMPLAN* software and state databases licensed from *IMPLAN* Group LLC². The *IMPLAN* model includes accounts for industrial and commodity production, employment, labor and property income, household and institutional consumption, domestic and international trade (imports, exports), government taxes, transfer payments (such as welfare and retirement), and capital investment. The *IMPLAN* databases are derived from the National Income and Product Accounts for the United States (U.S. Department of Commerce, Bureau of Economic Analysis), the Quarterly Census of Employment and Wages (U.S. Bureau of Labor Statistics), and other sources. *IMPLAN* characterizes more than 500 industry sectors. Economic multipliers are calculated for each industry to estimate the secondary effects of new demand that generates further economic activity as it is re-spent in the local economy (Miller and Blair, 2009). Indirect effects multipliers represent the economic activity generated within specific supply chains through the purchase of intermediate inputs from vendor firms. Induced effects multipliers represent the impacts of spending by households of industry employees and by federal, state, and local government entities. The indirect and induced multipliers were applied only to foreign and domestic exports, or sales to visitors from outside the state of Florida, which represent new money flowing into the regional economy, while direct effects

² Implan software for impact analysis and social accounting, version 3, and U.S. state data for 2013 (release 3). Huntersville, NC. www.implan.com.

multipliers only were applied to the outputs sold to in-state markets. The total economic impacts were calculated as the sum of direct, indirect and induced effects.

Different measures of economic impacts used include industry output or revenue (sales), employment (full-time and part-time or seasonal positions), value added, labor income, other property income, and tax on production and imports. Value added is a broad measure of net economic activity that is comparable to the Gross Domestic Product (GDP), and represents the sum of labor and property income, taxes on production and imports, and capital consumption (depreciation).

Marina Regions

IMPLAN models were developed for seven separate regions of the United States, as shown in Figure 2. The regions were defined to represent different climatic coastal areas, plus a central region for non-coastal states. The state of Florida was divided into the South Atlantic and Gulf of Mexico regions, and the states of New York and Pennsylvania were divided between the North Atlantic and Great Lakes regions. Alaska was included in the Pacific Northwest region, and Hawaii was included in the Pacific-South region.

Figure 2. U.S. regions for economic analysis of the marina industry.



Model Customization

The *Implan* models for each region were customized for the marina sector based on financial statement information obtained from 42 different commercial marinas throughout the United States. The distribution of marina firms contributing information by region is summarized in Table 1. A total of \$110 million in annual expenditures were reported by the contributing marinas. The annual operating expenditures reported by these firms are summarized in Table 2 by industry sector in the economic model. The top ten expenditure categories were proprietor income (representing 21.4% of total), employee compensation (13.6%), other amusement and

recreation services (8.6%), petroleum refineries (7.4%), gasoline stores (5.3%), real estate (5.2%), monetary authorities and depository credit intermediation (4.2%), office administrative services (3.9%), state and local government non-education (3.8%), and nonresidential maintenance and repair construction (3.5%). The 39 largest expenditure categories were used for model customization, representing 99 percent of expenditures reported. The industry gross absorption coefficients for Implan sector 496-Other amusement and recreation services (the sector in which commercial marinas are classified), were modified using these expenditure shares.

Table 1. Number of marinas by region contributing financial statement information used for economic model customization

Region	Number
Appalachian	3
Midwest	2
Mountain	2
Northeast	4
Pacific	7
South-Central	11
Southeast	13
Total	<u>42</u>

Table 2. Summary of marina annual expenditures reported for economic model customization, by economic sector

Sector code	Sector Name	Sum of Amount (\$)	Share of Total	Cumulative Percent
6001	Proprietor Income	23,441,200	0.213527	21.35%
5001	Employee Compensation	14,892,928	0.135661	34.92%
496	Other amusement and recreation industries	9,406,179	0.085681	43.49%
156	Petroleum refineries	8,076,380	0.073568	50.84%
402	Gasoline stores	5,852,848	0.053314	56.18%
440	Real estate	5,697,793	0.051902	61.37%
433	Monetary authorities and depository credit intermediation	4,574,340	0.041668	65.53%
462	Office administrative services	4,274,315	0.038935	69.43%
12001	State/Local Govt NonEducation	4,194,094	0.038204	73.25%
62	Nonresidential maintenance and repair	3,858,333	0.035146	76.76%
8001	Tax on Production and Imports	3,083,525	0.028088	79.57%
454	Management consulting services	2,847,726	0.025940	82.16%
504	Automotive repair and maintenance, except car washes	2,422,521	0.022067	84.37%
49	Electric power transmission and distribution	1,877,023	0.017098	86.08%
416	Warehousing and storage	1,818,857	0.016568	87.74%
437	Insurance carriers	1,792,971	0.016332	89.37%
405	General merchandise stores	1,778,717	0.016202	90.99%
461	Management of companies and enterprises	1,768,889	0.016113	92.60%
445	Commercial and industrial machinery and equipment rental and leasing	1,329,416	0.012110	93.81%
448	Accounting, tax preparation, bookkeeping, and payroll services	761,614	0.006938	94.51%
414	Scenic and sightseeing transportation and support activities for transportation	660,243	0.006014	95.11%
438	Insurance agencies, brokerages, and related activities	594,778	0.005418	95.65%
443	General and consumer goods rental except video tapes and discs	547,071	0.004983	96.15%
447	Legal services	486,736	0.004434	96.59%

Sector code	Sector Name	Sum of Amount (\$)	Share of Total	Cumulative Percent
442	Automotive equipment rental and leasing	288,910	0.002632	96.85%
464	Employment services	282,698	0.002575	97.11%
457	Advertising, public relations, and related services	275,221	0.002507	97.36%
51	Water, sewage and other systems	266,470	0.002427	97.61%
395	Wholesale trade	266,446	0.002427	97.85%
406	Miscellaneous store retailers	248,282	0.002262	98.07%
471	Waste management and remediation services	240,196	0.002188	98.29%
467	Investigation and security services	220,376	0.002007	98.49%
439	Funds, trusts, and other financial vehicles	212,860	0.001939	98.69%
499	Hotels and motels, including casino hotels	165,992	0.001512	98.84%
469	Landscape and horticultural services	158,298	0.001442	98.98%
512	Other personal services	156,344	0.001424	99.13%
468	Services to buildings	146,732	0.001337	99.26%
58	Other nonresidential structures	126,844	0.001155	99.37%
508	Personal and household goods repair and maintenance	117,913	0.001074	
427	Wired telecommunications carriers	70,277	0.000640	
50	Natural gas distribution	46,543	0.000424	
11001	Federal Government Non-Defense	42,311	0.000385	
64	Maintenance and repair of highways, streets, bridges, and tunnels	41,554	0.000379	
434	Nondepository credit intermediation and related activities	37,384	0.000341	
500	Other accommodations	29,535	0.000269	
398	Electronics and appliance stores	28,707	0.000261	
518	Postal service	28,005	0.000255	
470	Other support services	26,170	0.000238	
404	Sporting goods, hobby, musical instrument and book stores	24,989	0.000228	
507	Commercial and industrial machinery and equipment repair and maint.	17,911	0.000163	
474	Other educational services	16,996	0.000155	
400	Food and beverage stores	16,276	0.000148	
515	Business and professional associations	14,541	0.000132	
408	Air transportation	13,857	0.000126	
399	Building material and garden equipment and supplies stores	12,600	0.000115	
126	Cut and sew apparel contractors	11,289	0.000103	
396	Motor vehicle and parts dealers	10,496	0.000096	
426	Cable and other subscription programming	8,876	0.000081	
514	Grantmaking, giving, and social advocacy organizations	8,488	0.000077	
451	Custom computer programming services	7,393	0.000067	
247	Hardware manufacturing	6,911	0.000063	
397	Furniture and home furnishings stores	6,178	0.000056	
449	Architectural, engineering, and related services	5,488	0.000050	
506	Electronic and precision equipment repair and maintenance	4,726	0.000043	
107	Manufactured ice	4,484	0.000041	
154	Printing	4,477	0.000041	
127	Men's and boys' cut and sew apparel manufacturing	4,073	0.000037	
61	Other residential structures	4,021	0.000037	
388	Sign manufacturing	3,090	0.000028	
242	Ornamental and architectural metal work manufacturing	1,794	0.000016	
465	Business support services	1,705	0.000016	
531	Employment and payroll of state govt, non-education	1,545	0.000014	
262	Farm machinery and equipment manufacturing	1,359	0.000012	
394	All other miscellaneous manufacturing	1,011	0.000009	
501	Full-service restaurants	879	0.000008	
418	Periodical publishers	850	0.000008	

Sector code	Sector Name	Sum of Amount (\$)	Share of Total	Cumulative Percent
432	Internet publishing and broadcasting and web search portals	780	0.000007	
502	Limited-service restaurants	591	0.000005	
505	Car washes	558	0.000005	

After customizing and rebuilding the regional models, the resulting multipliers for marina operations were obtained, as shown in Table 3. These multipliers for industry output, value added, labor income and business taxes represent the total value of activity per dollar of gross revenues received by marina, while the employment multiplier is denominated in fulltime and part-time jobs per million dollars. Each multiplier has components for direct, indirect, and induced effects, which sum to the total effect. Multiplier values vary moderately across regions. For example, the total employment multiplier ranges from 33.4 (jobs per million dollars) in the Pacific-South region to 38.9 in the Atlantic-South region. The magnitude of the multipliers reflects the mix of industries and households in each region, and the degree to which industry inputs are sourced locally.

Table 3. Final demand economic multipliers for customized regional models of the marina industry.

Region	Multiplier Type	Direct	Indirect	Induced	Total
Atlantic North	Output	1.000	0.677	2.160	3.837
	Employment	15.811	5.029	14.432	35.272
	Labor income	0.349	0.260	0.872	1.482
	Value added	0.416	0.415	1.387	2.218
	Business taxes	0.067	0.032	0.089	0.187
Atlantic South	Output	1.000	0.690	2.101	3.791
	Employment	16.004	6.253	16.689	38.946
	Labor income	0.349	0.254	0.771	1.374
	Value added	0.416	0.396	1.261	2.073
	Business taxes	0.067	0.033	0.092	0.192
Gulf of Mexico	Output	1.000	0.777	2.037	3.814
	Employment	16.071	6.068	15.363	37.502
	Labor income	0.349	0.268	0.740	1.357
	Value added	0.416	0.428	1.200	2.044
	Business taxes	0.067	0.038	0.091	0.196
Central	Output	1.000	0.685	1.900	3.585
	Employment	16.598	5.785	14.928	37.311
	Labor income	0.349	0.238	0.694	1.281
	Value added	0.416	0.373	1.113	1.902
	Business taxes	0.067	0.032	0.079	0.178
Pacific South	Output	1.000	0.706	1.872	3.577
	Employment	15.843	5.045	12.492	33.379
	Labor income	0.349	0.262	0.737	1.348
	Value added	0.416	0.412	1.171	1.999
	Business taxes	0.067	0.031	0.079	0.177
Pacific North	Output	1.000	0.650	1.819	3.469
	Employment	17.095	4.969	13.043	35.107

Region	Multiplier Type	Direct	Indirect	Induced	Total
Great Lakes	Labor income	0.349	0.217	0.693	1.260
	Value added	0.416	0.368	1.118	1.902
	Business taxes	0.067	0.039	0.085	0.190
	Output	1.000	0.691	2.151	3.842
	Employment	17.301	5.326	15.077	37.704
	Labor income	0.349	0.248	0.814	1.412
	Value added	0.416	0.403	1.306	2.125
	Business taxes	0.067	0.033	0.090	0.190

Partial total effects multipliers are presented for major industry groups, defined by the North American Industry Classification System (NAICS) for each customized region in Table 4. These multipliers are used in the calculator tool to estimate the economic impacts of marinas on other major sectors of the economy.

Table 4. Partial economic multipliers by major industry group for customized regional models of the marina industry.

Region	Industry Group (NAICS)	Industry Output	Employment	Value Added	Labor Income	Business Taxes
Atlantic North	Agriculture, Forestry, Fisheries	0.009	0.007	0.011	0.007	0.001
	Mining	0.010	0.002	0.014	0.010	0.006
	Utilities	0.083	0.005	0.090	0.032	0.127
	Construction	0.163	0.053	0.165	0.177	0.017
	Manufacturing	0.200	0.026	0.141	0.086	0.057
	Wholesale trade	0.106	0.028	0.173	0.112	0.208
	Retail Trade	0.194	0.161	0.297	0.246	0.328
	Transportation	0.089	0.040	0.114	0.100	0.032
	Information and Communications	0.131	0.017	0.188	0.090	0.042
	Finance and Insurance	0.288	0.068	0.435	0.292	0.103
	Real Estate and Rentals	0.375	0.066	0.700	0.095	0.477
	Professional and Technical Services	0.222	0.085	0.367	0.363	0.059
	Management of Companies	0.050	0.012	0.078	0.078	0.017
	Administrative and Waste Services	0.110	0.085	0.199	0.202	0.026
	Education	0.036	0.030	0.057	0.061	0.017
	Health Care and Social Services	0.223	0.143	0.341	0.377	0.047
	Arts, Entertainment and Recreation	1.100	1.095	1.109	1.103	1.097
	Accommodation and Food Services	0.082	0.084	0.114	0.098	0.083
	Other Services	0.096	0.083	0.153	0.162	0.096
	Government and non-NAICS	0.270	0.143	0.587	0.553	-0.030
Atlantic South	Agriculture, Forestry, Fisheries	0.014	0.008	0.019	0.015	0.002
	Mining	0.005	0.002	0.006	0.003	0.002
	Utilities	0.084	0.005	0.087	0.026	0.151
	Construction	0.178	0.061	0.166	0.147	0.016
	Manufacturing	0.156	0.022	0.119	0.063	0.046

Region	Industry Group (NAICS)	Industry Output	Employment	Value Added	Labor Income	Business Taxes
Gulf of Mexico	Wholesale trade	0.110	0.030	0.173	0.106	0.217
	Retail Trade	0.226	0.191	0.340	0.274	0.384
	Transportation	0.095	0.044	0.111	0.098	0.037
	Information and Communications	0.125	0.020	0.139	0.073	0.053
	Finance and Insurance	0.281	0.091	0.338	0.256	0.111
	Real Estate and Rentals	0.397	0.100	0.700	0.087	0.463
	Professional and Technical Services	0.193	0.095	0.286	0.285	0.055
	Management of Companies	0.045	0.013	0.064	0.063	0.018
	Administrative and Waste Services	0.125	0.126	0.209	0.216	0.018
	Education	0.024	0.024	0.037	0.039	0.012
	Health Care and Social Services	0.205	0.137	0.301	0.326	0.046
	Arts, Entertainment and Recreation	1.100	1.097	1.106	1.104	1.094
	Accommodation and Food Services	0.091	0.100	0.121	0.106	0.085
	Other Services	0.105	0.105	0.153	0.164	0.093
	Government and non-NAICS	0.230	0.161	0.509	0.482	-0.018
	Agriculture, Forestry, Fisheries	0.014	0.010	0.017	0.011	0.003
	Mining	0.060	0.007	0.118	0.056	0.065
	Utilities	0.084	0.005	0.093	0.029	0.116
	Construction	0.200	0.064	0.203	0.190	0.018
	Manufacturing	0.275	0.023	0.167	0.074	0.025
	Wholesale trade	0.106	0.028	0.170	0.104	0.189
	Retail Trade	0.218	0.177	0.334	0.258	0.458
	Transportation	0.091	0.039	0.111	0.095	0.033
	Information and Communications	0.108	0.017	0.121	0.061	0.101
	Finance and Insurance	0.254	0.092	0.270	0.233	0.109
	Real Estate and Rentals	0.356	0.087	0.628	0.093	0.438
	Professional and Technical Services	0.187	0.087	0.287	0.286	0.048
	Management of Companies	0.034	0.010	0.046	0.046	0.010
	Administrative and Waste Services	0.120	0.114	0.205	0.210	0.023
	Education	0.019	0.020	0.029	0.032	0.007
	Health Care and Social Services	0.186	0.126	0.275	0.305	0.026
	Arts, Entertainment and Recreation	1.095	1.092	1.101	1.097	1.096
Accommodation and Food Services	0.084	0.090	0.113	0.097	0.095	
Other Services	0.099	0.093	0.151	0.162	0.097	
Government and non-NAICS	0.224	0.153	0.475	0.448	-0.023	
Central	Agriculture, Forestry, Fisheries	0.020	0.008	0.023	0.015	0.004
	Mining	0.040	0.007	0.065	0.040	0.051
	Utilities	0.068	0.004	0.060	0.023	0.082
	Construction	0.175	0.058	0.160	0.170	0.017
	Manufacturing	0.209	0.021	0.114	0.066	0.026
	Wholesale trade	0.090	0.025	0.138	0.085	0.170
	Retail Trade	0.214	0.175	0.320	0.253	0.420
	Transportation	0.081	0.035	0.103	0.090	0.033
	Information and Communications	0.102	0.016	0.119	0.058	0.056

Region	Industry Group (NAICS)	Industry Output	Employment	Value Added	Labor Income	Business Taxes
Pacific South	Finance and Insurance	0.240	0.078	0.280	0.194	0.086
	Real Estate and Rentals	0.335	0.074	0.595	0.072	0.364
	Professional and Technical Services	0.153	0.074	0.221	0.222	0.029
	Management of Companies	0.038	0.011	0.053	0.053	0.009
	Administrative and Waste Services	0.102	0.093	0.173	0.176	0.019
	Education	0.019	0.020	0.027	0.030	0.008
	Health Care and Social Services	0.194	0.126	0.285	0.319	0.042
	Arts, Entertainment and Recreation	1.094	1.089	1.100	1.093	1.104
	Accommodation and Food Services	0.081	0.087	0.107	0.092	0.086
	Other Services	0.093	0.085	0.141	0.152	0.094
	Government and non-NAICS	0.236	0.161	0.490	0.464	-0.033
	Agriculture, Forestry, Fisheries	1.080	3.967	1.094	1.299	1.098
	Mining	0.016	0.064	0.033	0.016	0.375
	Utilities	0.012	0.042	0.023	0.020	0.188
	Construction	0.113	1.324	0.102	0.350	0.119
	Manufacturing	0.222	0.789	0.077	0.129	0.079
	Wholesale trade	0.108	1.052	0.108	0.219	0.831
	Retail Trade	0.103	2.717	0.115	0.291	0.786
	Transportation	0.063	0.911	0.056	0.140	0.117
	Information and Communications	0.097	0.414	0.065	0.116	0.126
Pacific North	Finance and Insurance	0.135	1.607	0.085	0.220	0.181
	Real Estate and Rentals	0.238	1.559	0.305	0.096	1.106
	Professional and Technical Services	0.130	1.886	0.133	0.430	0.145
	Management of Companies	0.021	0.209	0.021	0.068	0.016
	Administrative and Waste Services	0.046	1.543	0.046	0.140	0.063
	Education	0.020	0.651	0.012	0.044	0.022
	Health Care and Social Services	0.131	3.208	0.145	0.525	0.097
	Arts, Entertainment and Recreation	0.018	0.552	0.013	0.031	0.055
	Accommodation and Food Services	0.061	2.317	0.054	0.153	0.224
	Other Services	0.053	1.709	0.055	0.190	0.197
	Government and non-NAICS	0.192	3.574	0.306	0.932	-0.056
	Agriculture, Forestry, Fisheries	0.015	0.009	0.021	0.014	0.004
	Mining	0.037	0.002	0.081	0.010	0.177
	Utilities	0.046	0.002	0.054	0.014	0.079
	Construction	0.164	0.050	0.165	0.176	0.033
	Manufacturing	0.209	0.018	0.122	0.059	0.024
	Wholesale trade	0.089	0.023	0.140	0.088	0.196
	Retail Trade	0.194	0.144	0.304	0.249	0.380
	Transportation	0.084	0.031	0.111	0.092	0.038
	Information and Communications	0.103	0.014	0.117	0.066	0.042
Finance and Insurance	0.185	0.058	0.212	0.165	0.077	
Real Estate and Rentals	0.342	0.061	0.632	0.075	0.412	
Professional and Technical Services	0.168	0.072	0.253	0.250	0.050	
Management of Companies	0.042	0.011	0.062	0.064	0.009	

Region	Industry Group (NAICS)	Industry Output	Employment	Value Added	Labor Income	Business Taxes
Great Lakes	Administrative and Waste Services	0.078	0.061	0.135	0.133	0.031
	Education	0.016	0.018	0.023	0.025	0.008
	Health Care and Social Services	0.176	0.109	0.267	0.298	0.032
	Arts, Entertainment and Recreation	1.092	1.090	1.096	1.091	1.091
	Accommodation and Food Services	0.074	0.071	0.102	0.088	0.076
	Other Services	0.088	0.069	0.139	0.144	0.110
	Government and non-NAICS	0.267	0.141	0.537	0.507	-0.020
	Agriculture, Forestry, Fisheries	0.015	0.007	0.017	0.013	0.001
	Mining	0.012	0.003	0.016	0.012	0.007
	Utilities	0.089	0.005	0.090	0.033	0.127
	Construction	0.168	0.051	0.167	0.173	0.016
	Manufacturing	0.295	0.029	0.198	0.106	0.044
	Wholesale trade	0.106	0.026	0.168	0.108	0.184
	Retail Trade	0.210	0.165	0.314	0.248	0.406
	Transportation	0.089	0.038	0.112	0.100	0.032
	Information and Communications	0.118	0.015	0.157	0.075	0.063
	Finance and Insurance	0.279	0.064	0.408	0.264	0.090
	Real Estate and Rentals	0.364	0.060	0.672	0.090	0.474
	Professional and Technical Services	0.192	0.074	0.307	0.304	0.050
	Management of Companies	0.050	0.012	0.076	0.076	0.015
	Administrative and Waste Services	0.106	0.083	0.188	0.190	0.026
	Education	0.031	0.026	0.047	0.051	0.013
	Health Care and Social Services	0.224	0.137	0.335	0.369	0.044
	Arts, Entertainment and Recreation	1.096	1.089	1.106	1.097	1.099
	Accommodation and Food Services	0.083	0.083	0.111	0.096	0.086
	Other Services	0.097	0.083	0.150	0.157	0.108
Government and non-NAICS	0.218	0.131	0.473	0.480	-0.034	

Detailed tax multipliers for the regional marina models are presented in Table 5. These multipliers reflect the prevailing taxation rates per dollar of industry output (revenue) in each region. Multipliers are provided for state and local taxes and federal taxes. Specific types of taxes estimated include social insurance tax (employer and employee portion of payroll taxes), sales tax, property tax, motor vehicle licenses, severance tax, corporate profits tax, personal income tax, and various fees and fines (non-taxes). Taxes on production and imports are part of the business taxes estimated in the main tables.

Table 5. Multipliers for state/local government and federal government taxes, customized regional models for the marina industry

	Atlantic North	Atlantic South	Gulf of Mexico	Pacific South	Pacific North	Great Lakes	Central
<u>State and Local Taxes</u>							
Dividends	0.000346	0.000374	0.000430	0.000323	0.000282	0.000515	0.000296
Social Ins Tax- Employee Contribution	0.000542	0.000532	0.000616	0.000992	0.000324	0.000484	0.000720
Social Ins Tax- Employer Contribution	0.001047	0.001028	0.001190	0.001918	0.000627	0.000935	0.001393
Tax on Production and Imports: Sales Tax	0.067967	0.089429	0.090929	0.076271	0.074353	0.045716	0.086611
Tax on Production and Imports: Property Tax	0.088207	0.066935	0.064686	0.064070	0.055362	0.047367	0.054197
Tax on Production and Imports: Motor Vehicle Licenses	0.001256	0.001542	0.001474	0.001917	0.001532	0.001004	0.001666
Tax on Production and Imports: Severance Tax	0.000029	0.000063	0.003799	0.000040	0.018416	0.000039	0.006532
Tax on Production and Imports: Other Taxes	0.010548	0.008601	0.010317	0.011649	0.009492	0.005448	0.006943
Tax on Production and Imports: S/L NonTaxes	0.000274	0.003169	0.002281	0.002272	0.001459	0.000644	0.001086
Corporate Profits Tax	0.009683	0.003752	0.001742	0.005773	0.002249	0.011151	0.003793
Personal Tax: Income Tax	0.043042	0.015266	0.003757	0.041839	0.011816	0.033561	0.019808
Personal Tax: NonTaxes (Fines-Fees)	0.005595	0.006630	0.007131	0.007401	0.003983	0.004578	0.004511
Personal Tax: Motor Vehicle License	0.001223	0.001278	0.001392	0.001685	0.001423	0.001372	0.001428
Personal Tax: Property Taxes	0.000804	0.000525	0.000577	0.000527	0.000484	0.000609	0.000440
Personal Tax: Other Tax (Fish/Hunt)	0.000417	0.000216	0.000401	0.000350	0.001071	0.000504	0.001037
Total State and Local Tax	0.230980	0.199338	0.190722	0.217027	0.182874	0.153927	0.190461
<u>Federal Taxes</u>							
Social Ins Tax- Employee Contribution	0.078578	0.076321	0.072748	0.069474	0.067679	0.060876	0.071120
Social Ins Tax- Employer Contribution	0.063044	0.061861	0.056945	0.054371	0.054216	0.041350	0.055940
Tax on Production and Imports: Excise Taxes	0.012567	0.014895	0.014529	0.013586	0.012859	0.007619	0.013708
Tax on Production and Imports: Custom Duty	0.005203	0.006167	0.006015	0.005625	0.005324	0.003155	0.005676
Tax on Production and Imports: Fed NonTaxes	0.001323	0.001568	0.001529	0.001430	0.001354	0.000802	0.001443
Corporate Profits Tax	0.039157	0.036158	0.035036	0.033825	0.030584	0.050404	0.031670
Personal Tax: Income Tax	0.127109	0.097426	0.106385	0.110617	0.088963	0.093009	0.084381
Total Federal Tax	0.326982	0.294396	0.293187	0.288927	0.260979	0.257215	0.263938

The calculator tool also incorporates deflators to convert values to 2013 dollars for application of the employment multiplier, to maintain the correct ratio of industry output to employment. Deflators in the model are provided out to the year 2030, as shown in Table 6. These deflators are for sector 496 in the Implan model.

Table 6. Deflators for the marina sector, 2013-30

Year	Deflator
2013	1.0000
2014	1.0271
2015	1.0549
2016	1.0835
2017	1.1129
2018	1.1430
2019	1.1740
2020	1.2058
2021	1.2385
2022	1.2721
2023	1.2964
2024	1.3212
2025	1.3464
2026	1.3722
2027	1.3984
2028	1.4252
2029	1.4524
2030	1.4802

Marina Economic Impact Calculator Programing and Features

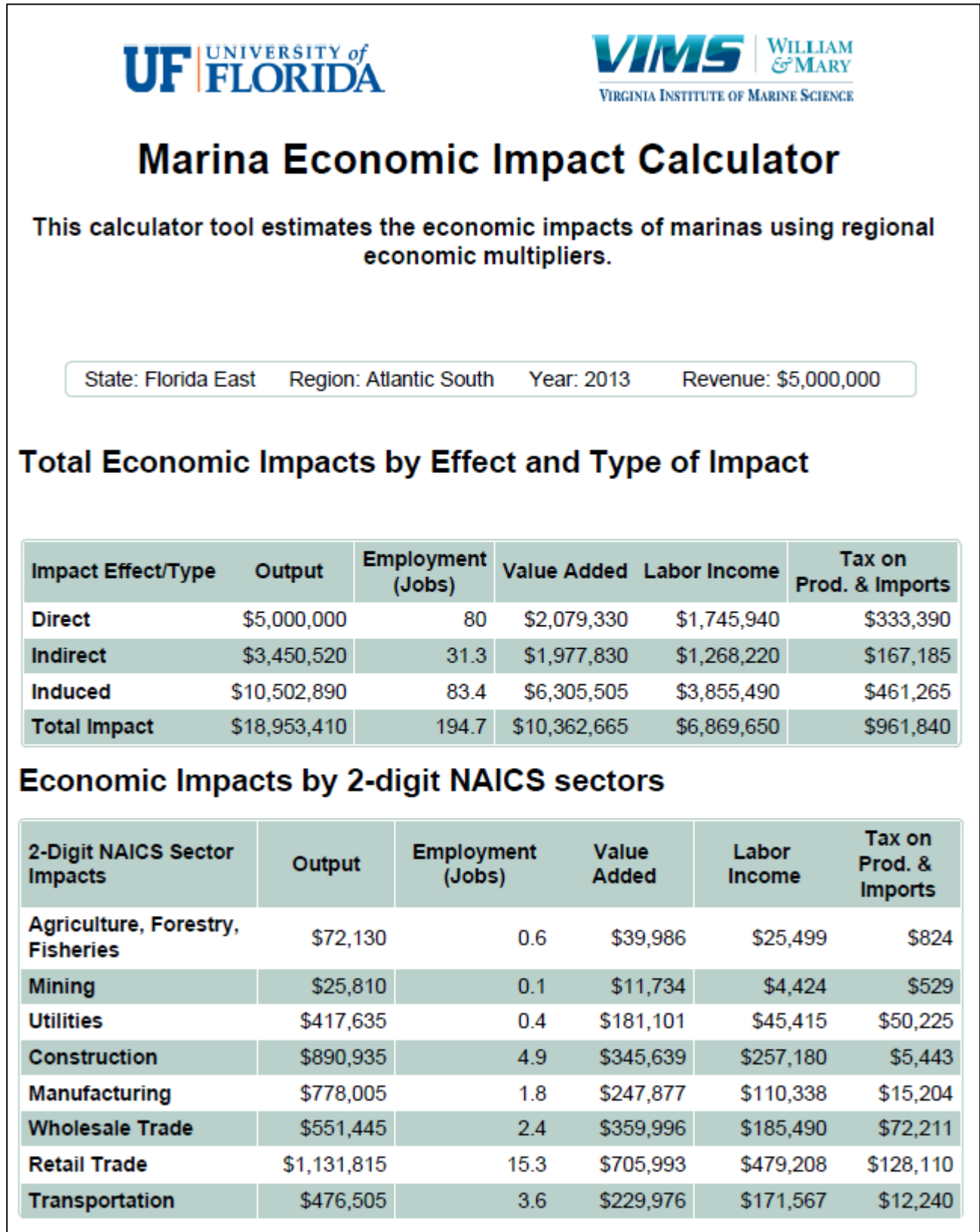
The marina economic impact calculator tool was programmed in mySQL/PHP language, which is compatible with the existing AMI website. The source code for the calculator tool is provided in the Appendix.

The calculator tool has the following features:

- Login with user email address and password and create profile
- User interface: requires state/region, year and gross revenues
- Multiplier and deflator lookup tables
- Reports impacts by direct, indirect, induced, total effects for output, employment, value added, labor income.
- Impacts by major industry group (2-digit NAICS)
- Tax impacts to state/local and federal governments
- Model documentation and region map
- Administrator tools for user management and statistical reports on system usage by user, date

An example of the output pages from the calculator is provided in Figure 3.

Figure 3. Example of output pages (3) from the marina calculator tool.



Information and Communications	\$623,405	1.6	\$289,405	\$127,948	\$17,829
Finance and Insurance	\$1,404,500	7.3	\$702,928	\$447,346	\$37,102
Real Estate and Rentals	\$1,985,220	8	\$1,455,217	\$151,539	\$154,439
Professional and Technical Services	\$965,565	7.6	\$594,085	\$497,511	\$18,346
Management of Companies	\$226,420	1.1	\$132,125	\$109,484	\$5,838
Administrative and Waste Services	\$625,865	10.1	\$435,401	\$377,287	\$6,133
Education	\$121,900	1.9	\$75,960	\$68,532	\$3,965
Health Care and Social Services	\$1,026,260	11	\$626,269	\$569,644	\$15,403
Arts, Entertainment and Recreation	\$5,501,480	87.8	\$2,300,712	\$1,927,265	\$364,689
Accommodation and Food Services	\$452,800	8	\$252,221	\$184,595	\$28,472
Other Services	\$523,500	8.4	\$317,551	\$286,982	\$30,945
Government and non-NAICS	\$1,152,265	12.9	\$1,058,506	\$842,397	\$-6,100

Jobs represents both full and part-time jobs

Total State and Local Tax Impacts

Description	Amount
Dividends	\$1,870
Social Ins Tax- Employee Contribution	\$2,660
Social Ins Tax- Employer Contribution	\$5,140
Tax on Production and Imports: Sales Tax	\$447,145
Tax on Production and Imports: Property Tax	\$334,675
Tax on Production and Imports: Motor Vehicle Lic	\$7,710
Tax on Production and Imports: Severance Tax	\$315
Tax on Production and Imports: Other Taxes	\$43,005
Tax on Production and Imports: S/L NonTaxes	\$15,845

Corporate Profits Tax	\$18,760
Personal Tax: Income Tax	\$76,330
Personal Tax: NonTaxes (Fines- Fees)	\$33,150
Personal Tax: Motor Vehicle License	\$6,390
Personal Tax: Property Taxes	\$2,625
Personal Tax: Other Tax (Fish/Hunt)	\$1,080
Total State and Local Tax	\$996,690

Total Federal Tax Impacts

Description	Amount
Social Ins Tax- Employee Contribution	\$381,605
Social Ins Tax- Employer Contribution	\$309,305
Tax on Production and Imports: Excise Taxes	\$74,475
Tax on Production and Imports: Custom Duty	\$30,835
Tax on Production and Imports: Fed NonTaxes	\$7,840
Corporate Profits Tax	\$180,790
Personal Tax: Income Tax	\$487,130
Total Federal Tax	\$1,471,980

Appendix: Source Code for Marina Economic Impact Calculator

Source Code for Login Page

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Marina Impact Calculation | UF</title>
<script src="jquery-2.1.4.min.js"></script>
<script src="marina.js"></script>
<link href="marina.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="header">
  <div class="alignCenter">
    
    
    
  </div>
  <h1>Marina Economic Impact Calculator</h1>
  <h3>This calculator tool estimates the economic impacts of marinas using
regional economic multipliers.</h3>
  <div id="pfrm">
    <div id="login">
      <div>
        <h3>Log In</h3>
        <form action="api/?action=login" method="post">
          <label for="username">Email</label><input type="text" name="username"
id="uname" />
          <label for="password">Password</label><input type="password"
name="password" id="upass" />
          <input type="submit" value="Log In" id="butLogin" />
        </form>
      </div>
      <div id="lostpwd">
        <h3>Lost Password</h3>
        <span>If you have lost your password, submit the email address
used for your account below and an email will be sent with a new password for your
account.</span><br/><br/>
        <label for="email">Email</label><input type="text" name="email"
id="email" />
        <input type="submit" value="Retrieve Password" id="butLost" />
      </div>
    </div>
    <div id="newacct">
      <h3>Request an Account</h3>
      <span>If you would like an account for the Marina Economic Impact
Calculator, you can request one by submitting the form below.</span><br/><br/>
      <div class="left req"><label for="fname">First Name</label><input
type="text" name="fname" id="fname" style="width:175px;" /></div>
      <div class="right req"><label for="lname">Last Name</label><input
type="text" name="lname" id="lname" style="width:175px;" /></div>
      <div><label for="address">Address</label><input type="text"
name="address" id="address" /></div>
      <div><label for="city">City</label><input type="text" name="city"
id="city" /></div>
      <div class="left"><label for="state">State</label><select name="state"
id="state" />

```

```

<option value="">Please Select</option>
<option value="Alabama">Alabama</option>
<option value="Alaska">Alaska</option>
<option value="Arizona">Arizona</option>
<option value="Arkansas">Arkansas</option>
<option value="California">California</option>
<option value="Colorado">Colorado</option>
<option value="Connecticut">Connecticut</option>
<option value="Delaware">Delaware</option>
<option value="Florida">Florida</option>
<option value="Georgia">Georgia</option>
<option value="Hawaii">Hawaii</option>
<option value="Idaho">Idaho</option>
<option value="Illinois">Illinois</option>
<option value="Indiana">Indiana</option>
<option value="Iowa">Iowa</option>
<option value="Kansas">Kansas</option>
<option value="Kentucky">Kentucky</option>
<option value="Louisiana">Louisiana</option>
<option value="Maine">Maine</option>
<option value="Maryland">Maryland</option>
<option value="Massachusetts">Massachusetts</option>
<option value="Michigan">Michigan</option>
<option value="Minnesota">Minnesota</option>
<option value="Mississippi">Mississippi</option>
<option value="Missouri">Missouri</option>
<option value="Montana">Montana</option>
<option value="Nebraska">Nebraska</option>
<option value="Nevada">Nevada</option>
<option value="New Hampshire">New Hampshire</option>
<option value="New Jersey">New Jersey</option>
<option value="New Mexico">New Mexico</option>
<option value="New York">New York</option>
<option value="North Carolina">North Carolina</option>
<option value="North Dakota">North Dakota</option>
<option value="Ohio">Ohio</option>
<option value="Oklahoma">Oklahoma</option>
<option value="Oregon">Oregon</option>
<option value="Pennsylvania">Pennsylvania</option>
<option value="Rhode Island">Rhode Island</option>
<option value="South Carolina">South Carolina</option>
<option value="South Dakota">South Dakota</option>
<option value="Tennessee">Tennessee</option>
<option value="Texas">Texas</option>
<option value="Utah">Utah</option>
<option value="Vermont">Vermont</option>
<option value="Virginia">Virginia</option>
<option value="Washington">Washington</option>
<option value="West Virginia">West Virginia</option>
<option value="Wisconsin">Wisconsin</option>
<option value="Wyoming">Wyoming</option>
</select></div>
<div class="right"><label for="zip">Zip</label><input type="text"
name="zip" id="zip" style="width:100px;" /></div><br style="clear:both" />
<div class="req"><label for="phone">Phone</label><input type="text"
name="phone" id="phone" /></div>
<div class="req"><label for="email">Email</label><input type="text"
name="email" id="nemail" /></div>
<div class="left req"><label for="password">Password</label><input
type="password" name="password" id="pwd" style="width:175px" /></div>

```

```

        <div class="right req"><label for="chk">Re-Type Password</label><input
type="password" name="chk" id="chk" style="width:175px" /></div>
        <div><input type="submit" value="Request Account" id="butNewAccnt"
/></div>
    </div>
</div>
</div>
<div id="footer">
    
    
    
    
</div>
</body>
</html>

```

Source Code for Calculator Inputs Page

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Marina Impact Calculation | UF</title>
<script src="jquery-2.1.4.min.js"></script>
<script>var usr =
{"uid":"10","role":"0","fname":"Test","lname":"User","address":"123 Nowhere
St","city":"Gainesville","state":"Florida","zip":"12345","phone":"1112223333","ema
il":"test@nowhere.com"}; </script>
<script src="marina.js"></script>
<link href="marina.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="mapwrap">
    <div id="map">click
anywhere to close</div>
</div>
<div id="profwrap">
    <div id="profile">
        <div id="close">X</div><input type="hidden" id="uid" />
        <div class="left req"><label for="fname">First Name</label><input
type="text" name="fname" id="fname" style="width:175px;" /></div>
        <div class="right req"><label for="lname">Last Name</label><input
type="text" name="lname" id="lname" style="width:175px;" /></div>
        <div><label for="address">Address</label><input type="text" name="address"
id="address" /></div>
        <div><label for="city">City</label><input type="text" name="city"
id="city" /></div>
        <div class="left"><label for="state">State</label><select name="state"
id="state" />
            <option value="">Please Select</option>
            <option value="Alabama">Alabama</option>
            <option value="Alaska">Alaska</option>
            <option value="Arizona">Arizona</option>
            <option value="Arkansas">Arkansas</option>
            <option value="California">California</option>
            <option value="Colorado">Colorado</option>
            <option value="Connecticut">Connecticut</option>
            <option value="Delaware">Delaware</option>

```

```

<option value="Florida">Florida</option>
<option value="Georgia">Georgia</option>
<option value="Hawaii">Hawaii</option>
<option value="Idaho">Idaho</option>
<option value="Illinois">Illinois</option>
<option value="Indiana">Indiana</option>
<option value="Iowa">Iowa</option>
<option value="Kansas">Kansas</option>
<option value="Kentucky">Kentucky</option>
<option value="Louisiana">Louisiana</option>
<option value="Maine">Maine</option>
<option value="Maryland">Maryland</option>
<option value="Massachusetts">Massachusetts</option>
<option value="Michigan">Michigan</option>
<option value="Minnesota">Minnesota</option>
<option value="Mississippi">Mississippi</option>
<option value="Missouri">Missouri</option>
<option value="Montana">Montana</option>
<option value="Nebraska">Nebraska</option>
<option value="Nevada">Nevada</option>
<option value="New Hampshire">New Hampshire</option>
<option value="New Jersey">New Jersey</option>
<option value="New Mexico">New Mexico</option>
<option value="New York">New York</option>
<option value="North Carolina">North Carolina</option>
<option value="North Dakota">North Dakota</option>
<option value="Ohio">Ohio</option>
<option value="Oklahoma">Oklahoma</option>
<option value="Oregon">Oregon</option>
<option value="Pennsylvania">Pennsylvania</option>
<option value="Rhode Island">Rhode Island</option>
<option value="South Carolina">South Carolina</option>
<option value="South Dakota">South Dakota</option>
<option value="Tennessee">Tennessee</option>
<option value="Texas">Texas</option>
<option value="Utah">Utah</option>
<option value="Vermont">Vermont</option>
<option value="Virginia">Virginia</option>
<option value="Washington">Washington</option>
<option value="West Virginia">West Virginia</option>
<option value="Wisconsin">Wisconsin</option>
<option value="Wyoming">Wyoming</option>
</select></div>
<div class="right"><label for="zip">Zip</label><input type="text"
name="zip" id="zip" style="width:100px;" /></div><br style="clear:both" />
<div class="req"><label for="phone">Phone</label><input type="text"
name="phone" id="phone" /></div>
<div class="req"><label for="email">Email</label><input type="text"
name="email" id="email" /></div>
<select id="role"><option value="-2">Remove Account</option><option
value="-1">Pending</option><option value="0">User</option><option
value="1">Admin</option></select>
<div><input type="submit" value="Update Profile" id="butUpdProf" /></div>
<hr />
<div class="left req"><label for="password">Password</label><input
type="password" name="password" id="pwd" style="width:175px" /></div>
<div class="right req"><label for="chk">Re-Type Password</label><input
type="password" name="chk" id="chk" style="width:175px" /></div>
<div><input type="submit" value="Update Password" id="butUpdPwd" /></div>
</div>
</div>

```

```

<div id="header">
  <div class="alignCenter">
    
    
    
  </div>
  <h1>Marina Economic Impact Calculator</h1>
  <h3>This calculator tool estimates the economic impacts of marinas using regional economic multipliers.</h3>
  <ul id="amenu"><li><a id="butuadmin">User Administration</a></li><li><a id="butstats">Statistics</a></li><li><a id="butprof">Profile</a></li><li><a id="butlgout">Log Out</a></li></ul>
  <ul id="umenu"><li><a href="documentation.php">Documentation</a></li><li><a id="butmap">View Region Map</a></li><li><a id="butprof">Profile</a></li><li><a id="butlgout">Log Out</a></li></ul>
  <!-- Calculation Form -->
  <div id="info">For Gross Operating Revenues, enter the value in the field below. Calculated impacts for your region will be shown in the tables that appear. Click the "Run Calculation" button to clear all entries and recalculate with the current selected values.</div>
  <div id="frm">
    <div><label for="state">State</label>
    <select name="state" id="calcstate" />
      <option>Please Select</option>
      <option value="Alabama" data-reg="Gulf of Mexico">Alabama</option>
      <option value="Alaska" data-reg="Pacific North">Alaska</option>
      <option value="Arizona" data-reg="Central">Arizona</option>
      <option value="Arkansas" data-reg="Central">Arkansas</option>
      <option value="California" data-reg="Pacific South">California</option>
      <option value="Colorado" data-reg="Central">Colorado</option>
      <option value="Connecticut" data-reg="Atlantic North">Connecticut</option>
      <option value="Delaware" data-reg="Atlantic North">Delaware</option>
      <option value="District of Columbia" data-reg="Atlantic North">District of Columbia</option>
      <option value="Florida East" data-reg="Atlantic South">Florida East</option>
      <option value="Florida West" data-reg="Gulf of Mexico">Florida West</option>
      <option value="Georgia" data-reg="Atlantic South">Georgia</option>
      <option value="Hawaii" data-reg="Pacific South">Hawaii</option>
      <option value="Idaho" data-reg="Central">Idaho</option>
      <option value="Illinois" data-reg="Central">Illinois</option>
      <option value="Indiana" data-reg="Central">Indiana</option>
      <option value="Iowa" data-reg="Central">Iowa</option>
      <option value="Kansas" data-reg="Central">Kansas</option>
      <option value="Kentucky" data-reg="Central">Kentucky</option>
      <option value="Louisiana" data-reg="Gulf of Mexico">Louisiana</option>
      <option value="Maine" data-reg="Atlantic North">Maine</option>
      <option value="Maryland" data-reg="Atlantic North">Maryland</option>
      <option value="Massachusetts" data-reg="Atlantic North">Massachusetts</option>
      <option value="Michigan" data-reg="Central">Michigan</option>
      <option value="Minnesota" data-reg="Central">Minnesota</option>
      <option value="Mississippi" data-reg="Gulf of Mexico">Mississippi</option>
      <option value="Missouri" data-reg="Central">Missouri</option>
      <option value="Montana" data-reg="Central">Montana</option>
      <option value="Nebraska" data-reg="Central">Nebraska</option>
      <option value="Nevada" data-reg="Central">Nevada</option>

```

```

        <option value="New Hampshire" data-reg="Atlantic North">New
Hampshire</option>
        <option value="New Jersey" data-reg="Atlantic North">New
Jersey</option>
        <option value="New Mexico" data-reg="Central">New Mexico</option>
        <option value="New York East" data-reg="Atlantic North">New York
East</option>
        <option value="New York West" data-reg="Central">New York
West</option>
        <option value="North Carolina" data-reg="Atlantic South">North
Carolina</option>
        <option value="North Dakota" data-reg="Central">North Dakota</option>
        <option value="Ohio" data-reg="Central">Ohio</option>
        <option value="Oklahoma" data-reg="Central">Oklahoma</option>
        <option value="Oregon" data-reg="Pacific North">Oregon</option>
        <option value="Pennsylvania East" data-reg="Atlantic
North">Pennsylvania East</option>
        <option value="Pennsylvania West" data-reg="Central">Pennsylvania
West</option>
        <option value="Rhode Island" data-reg="Atlantic North">Rhode
Island</option>
        <option value="South Carolina" data-reg="Atlantic South">South
Carolina</option>
        <option value="South Dakota" data-reg="Central">South Dakota</option>
        <option value="Tennessee" data-reg="Central">Tennessee</option>
        <option value="Texas" data-reg="Gulf of Mexico">Texas</option>
        <option value="Utah" data-reg="Central">Utah</option>
        <option value="Vermont" data-reg="Central">Vermont</option>
        <option value="Virginia" data-reg="Atlantic North">Virginia</option>
        <option value="Washington" data-reg="Pacific
North">Washington</option>
        <option value="West Virgina" data-reg="Central">West Virgina</option>
        <option value="Wisconsin" data-reg="Central">Wisconsin</option>
        <option value="Wyoming" data-reg="Central">Wyoming</option>
</select></div>
<div><label for="region">Region</label>
    <input type="text" id="calcreg" disabled="disabled" />
</div>
<div><label for="year">Year</label>
<select name="year" id="year">
    <option value="2013">2013</option>
    <option value="2014">2014</option>
    <option value="2015">2015</option>
    <option value="2016">2016</option>
    <option value="2017">2017</option>
    <option value="2018">2018</option>
    <option value="2019">2019</option>
    <option value="2020">2020</option>
    <option value="2021">2021</option>
    <option value="2022">2022</option>
    <option value="2023">2023</option>
    <option value="2024">2024</option>
    <option value="2025">2025</option>
    <option value="2026">2026</option>
    <option value="2027">2027</option>
    <option value="2028">2028</option>
    <option value="2029">2029</option>
    <option value="2030">2030</option>
</select></div>
<div><label for="revenue">Revenue</label><input type="text" name="rev"
id="rev" /></div>

```

```

        <div><input type="submit" id="runCalc" value="Run Calculation" /></div>
    </div>
    <!-- End Calculation Form -->
</div>
<div id="adminwrap">
    <div id="uadmin">
        <div id="uTable">
            <h2>User Administration</h2>
            <table>
                <tr>
                    <th>Name</th>
                    <th>Email</th>
                </tr>
            </table>
        </div>
    </div>
    <div id="stats">
        <div class="left"><label for="stdt">Start Date</label><input type="text"
id="stdt" value="10/1/15" /></div>
        <div class="left"><label for="endt">End Date</label><input type="text"
id="endt" value="11/17/15" /></div>
        <div class="left" style="margin-top: 10px;"><input type="submit"
id="butRunStats" value="Run Statistics" /></div>
        <div class="left" id="statTotal"></div>
        <br style="clear:both" />
        <h2>Impact Calculation Statistics</h2>
        <table>
            <tr>
                <td width="20%">&nbsp;</td>
                <td width="15%">Industry Output</td>
                <td width="15%">Employment</td>
                <td width="15%">Value Added</td>
                <td width="15%">Labor Income</td>
                <td width="15%">Business Taxes</td>
            </tr>
            <tr>
                <td>Minimum</td>
                <td id="minOutput"></td>
                <td id="minJob"></td>
                <td id="minVal"></td>
                <td id="minLabor"></td>
                <td id="minTax"></td>
            </tr>
            <tr>
                <td>Average</td>
                <td id="avgOutput"></td>
                <td id="avgJob"></td>
                <td id="avgVal"></td>
                <td id="avgLabor"></td>
                <td id="avgTax"></td>
            </tr>
            <tr>
                <td>Maximum</td>
                <td id="maxOutput"></td>
                <td id="maxJob"></td>
                <td id="maxVal"></td>
                <td id="maxLabor"></td>
                <td id="maxTax"></td>
            </tr>
        </table>
    </div>

```

```

<h2>Calculation Logs</h2>
<table id="calclog">
  <tr>
    <td width="20%">Name</td>
    <td width="20%">Location</td>
    <td width="10%">Timestamp</td>
    <td>Output</td>
    <td>Employment</td>
    <td width="15%">Value Added</td>
    <td width="15%">Labor Income</td>
    <td width="15%">Business Taxes</td>
  </tr>
</table>
</div>
<div id="calc"><!-- Calculation Results -->
  <div id="a" class="dTable">
    <h2>Total Economic Impacts by Effect and Type of Impact</h2>
<table>
  <tr>
    <th width="30%">Impact Effect/Type</th>
    <th width="15%">Output</th>
    <th>Employment<br />(Jobs)</th>
    <th width="15%">Value Added</th>
    <th width="15%">Labor Income</th>
    <th width="15%">Business Taxes</th>
  </tr>
  <tr data-row="Direct">
    <td>Direct</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Indirect">
    <td>Indirect</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Induced">
    <td>Induced</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Total">
    <td>Total Impact</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
</table>
<blockquote>

```


- <ul class="footnote">
- Industry output represents sales revenues. Employment represents fulltime and part-time jobs.
- Value added represents the sum of labor income, other property income (interest, rents, royalties, corporate profits) and business taxes; it is also equivalent to Gross Domestic Product (GDP). Labor income represents employee compensation and benefits and business owner (proprietor) income. Business taxes includes taxes on property and retail sales, vehicle licenses, severance taxes, excise taxes, customs duties, and various other minor state and local taxes.
- See the table below for a more detailed listing of local/state and federal tax impacts, including other taxes such as personal taxes, social insurance taxes (Social Security), and corporate profits taxes.
- Note that these economic measures are independent and should not be added together

</blockquote>

</div>

<!------- Table B ----->

<div id="b" class="dTable">

<h2>Economic Impacts by 2-digit NAICS sectors</h2>

<table>

<tr>

<th width="30%">2-Digit NAICS Sector</th>
 <th width="15%">Output</th>
 <th>Employment
(Jobs)</th>
 <th width="15%">Value Added</th>
 <th width="15%">Labor Income</th>
 <th width="15%">Business Taxes</th>

</tr>

<tr data-row="Agriculture, Forestry, Fisheries">

<td>Agriculture, Forestry, Fisheries</td>
 <td data-cell="Out"></td>
 <td data-cell="Emp"></td>
 <td data-cell="Val"></td>
 <td data-cell="Lab"></td>
 <td data-cell="Tax"></td>

</tr>

<tr data-row="Mining">

<td>Mining</td>
 <td data-cell="Out"></td>
 <td data-cell="Emp"></td>
 <td data-cell="Val"></td>
 <td data-cell="Lab"></td>
 <td data-cell="Tax"></td>

</tr>

<tr data-row="Utilities">

<td>Utilities</td>
 <td data-cell="Out"></td>
 <td data-cell="Emp"></td>
 <td data-cell="Val"></td>
 <td data-cell="Lab"></td>
 <td data-cell="Tax"></td>

</tr>

<tr data-row="Construction">

<td>Construction</td>
 <td data-cell="Out"></td>
 <td data-cell="Emp"></td>
 <td data-cell="Val"></td>
 <td data-cell="Lab"></td>
 <td data-cell="Tax"></td>

</tr>

```

<tr data-row="Manufacturing">
  <td>Manufacturing</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Wholesale trade">
  <td>Wholesale Trade</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Retail Trade">
  <td>Retail Trade</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Transportation">
  <td>Transportation</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Information and Communications">
  <td>Information and Communications</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Finance and Insurance">
  <td>Finance and Insurance</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Real Estate and Rentals">
  <td>Real Estate and Rentals</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Professional and Technical Services">
  <td>Professional and Technical Services</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>

```

```

        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
</tr>
<tr data-row="Management of Companies">
    <td>Management of Companies</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Administrative and Waste Services">
    <td>Administrative and Waste Services</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Education">
    <td>Education</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Health Care and Social Services">
    <td>Health Care and Social Services</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Arts, Entertainment and Recreation">
    <td>Arts, Entertainment and Recreation</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Accommodation and Food Services">
    <td>Accommodation and Food Services</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Other Services">
    <td>Other Services</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
</tr>
<tr data-row="Government and non-NAICS">
    <td>Government and non-NAICS</td>

```

```

        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <!--<tr data-row="Total">
        <td>Total</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr-->
</table>
</div>
<!------- Table C ----->
<div id="c" class="dTable sm">
    <h2>State and Local Tax Impacts</h2>
<table>
    <tr>
        <th width="80%">Description</th>
        <th>$ Amount</th>
    </tr>
    <tr data-row="Dividends">
        <td>Dividends</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Social Ins Tax- Employee Contribution">
        <td>Social Ins Tax- Employee Contribution</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Social Ins Tax- Employer Contribution">
        <td>Social Ins Tax- Employer Contribution</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Sales Tax">
        <td>Tax on Production and Imports: Sales Tax</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Property Tax">
        <td>Tax on Production and Imports: Property Tax</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Motor Vehicle Lic">
        <td>Tax on Production and Imports: Motor Vehicle Lic</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Severance Tax">
        <td>Tax on Production and Imports: Severance Tax</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Other Taxes">
        <td>Tax on Production and Imports: Other Taxes</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: S/L NonTaxes">
        <td>Tax on Production and Imports: S/L NonTaxes</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Corporate Profits Tax">

```

```

        <td>Corporate Profits Tax</td>
        <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: Income Tax">
    <td>Personal Tax: Income Tax</td>
    <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: NonTaxes (Fines- Fees)">
    <td>Personal Tax: NonTaxes (Fines- Fees)</td>
    <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: Motor Vehicle License">
    <td>Personal Tax: Motor Vehicle License</td>
    <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: Property Taxes">
    <td>Personal Tax: Property Taxes</td>
    <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: Other Tax (Fish/Hunt)">
    <td>Personal Tax: Other Tax (Fish/Hunt)</td>
    <td data-cell="Out"></td>
</tr>
<tr data-row="Total State and Local Tax">
    <td>Total State and Local Tax</td>
    <td data-cell="Out"></td>
</tr>
</table>
</div>

```

```

<!----- Table D ----->

```

```

<div id="d" class="dTable sm">
    <h2>Federal Tax Impacts</h2>
<table>
    <tr>
        <th width="80%">Description</th>
        <th>$ Amount</th>
    </tr>
    <tr data-row="Social Ins Tax- Employee Contribution">
        <td>Social Ins Tax- Employee Contribution</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Social Ins Tax- Employer Contribution">
        <td>Social Ins Tax- Employer Contribution</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Excise Taxes">
        <td>Tax on Production and Imports: Excise Taxes</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Custom Duty">
        <td>Tax on Production and Imports: Custom Duty</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Tax on Production and Imports: Fed NonTaxes">
        <td>Tax on Production and Imports: Fed NonTaxes</td>
        <td data-cell="Out"></td>
    </tr>
    <tr data-row="Corporate Profits Tax">
        <td>Corporate Profits Tax</td>
        <td data-cell="Out"></td>
    </tr>
</table>

```

```

        <tr data-row="Personal Tax: Income Tax">
            <td>Personal Tax: Income Tax</td>
            <td data-cell="Out"></td>
        </tr>
        <tr data-row="Total Federal Tax">
            <td>Total Federal Tax</td>
            <td data-cell="Out"></td>
        </tr>
    </table>
</div>
<div id="d" class="dTable sm">
<table>
    <tr>
        <th style="text-align:left;width:80%">Total Local, State & Federal
Tax</th>
        <td style="text-align:right" id="txTot"></td>
    </tr>
</table>
</div>
<form action="mkPDF.php" method="post" class="mkPDF"><input type="submit"
id="mkPDF" value="Save as PDF" /><input type="hidden" name="calc" id="jsonhld"
/></form>
</div>
<div id="footer">
    
    
    
    
</div>
</body>
</html>

```

Source Code for Results Page

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Marina Impact Calculation | UF</title>
<script src="jquery-2.1.4.min.js"></script>
<script>var usr =
{"uid":"10","role":"0","fname":"Test","lname":"User","address":"123 Nowhere
St","city":"Gainesville","state":"Florida","zip":"12345","phone":"1112223333","ema
il":"test@nowhere.com"}; </script>
<script src="marina.js"></script>
<link href="marina.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="mapwrap">
    <div id="map">click
anywhere to close</div>
</div>
<div id="profwrap">
    <div id="profile">
        <div id="close">X</div><input type="hidden" id="uid" />
        <div class="left req"><label for="fname">First Name</label><input
type="text" name="fname" id="fname" style="width:175px;" /></div>
        <div class="right req"><label for="lname">Last Name</label><input
type="text" name="lname" id="lname" style="width:175px;" /></div>
        <div><label for="address">Address</label><input type="text" name="address"
id="address" /></div>
        <div><label for="city">City</label><input type="text" name="city"
id="city" /></div>
        <div class="left"><label for="state">State</label><select name="state"
id="state" />
            <option value="">Please Select</option>
            <option value="Alabama">Alabama</option>
            <option value="Alaska">Alaska</option>
            <option value="Arizona">Arizona</option>
            <option value="Arkansas">Arkansas</option>
            <option value="California">California</option>
            <option value="Colorado">Colorado</option>
            <option value="Connecticut">Connecticut</option>
            <option value="Delaware">Delaware</option>
            <option value="Florida">Florida</option>
            <option value="Georgia">Georgia</option>
            <option value="Hawaii">Hawaii</option>
            <option value="Idaho">Idaho</option>
            <option value="Illinois">Illinois</option>
            <option value="Indiana">Indiana</option>
            <option value="Iowa">Iowa</option>
            <option value="Kansas">Kansas</option>
            <option value="Kentucky">Kentucky</option>
            <option value="Louisiana">Louisiana</option>
            <option value="Maine">Maine</option>
            <option value="Maryland">Maryland</option>
            <option value="Massachusetts">Massachusetts</option>
            <option value="Michigan">Michigan</option>
            <option value="Minnesota">Minnesota</option>
            <option value="Mississippi">Mississippi</option>
            <option value="Missouri">Missouri</option>

```

```

    <option value="Montana">Montana</option>
    <option value="Nebraska">Nebraska</option>
    <option value="Nevada">Nevada</option>
    <option value="New Hampshire">New Hampshire</option>
    <option value="New Jersey">New Jersey</option>
    <option value="New Mexico">New Mexico</option>
    <option value="New York">New York</option>
    <option value="North Carolina">North Carolina</option>
    <option value="North Dakota">North Dakota</option>
    <option value="Ohio">Ohio</option>
    <option value="Oklahoma">Oklahoma</option>
    <option value="Oregon">Oregon</option>
    <option value="Pennsylvania">Pennsylvania</option>
    <option value="Rhode Island">Rhode Island</option>
    <option value="South Carolina">South Carolina</option>
    <option value="South Dakota">South Dakota</option>
    <option value="Tennessee">Tennessee</option>
    <option value="Texas">Texas</option>
    <option value="Utah">Utah</option>
    <option value="Vermont">Vermont</option>
    <option value="Virginia">Virginia</option>
    <option value="Washington">Washington</option>
    <option value="West Virginia">West Virginia</option>
    <option value="Wisconsin">Wisconsin</option>
    <option value="Wyoming">Wyoming</option>
  </select></div>
  <div class="right"><label for="zip">Zip</label><input type="text"
name="zip" id="zip" style="width:100px;" /></div><br style="clear:both" />
  <div class="req"><label for="phone">Phone</label><input type="text"
name="phone" id="phone" /></div>
  <div class="req"><label for="email">Email</label><input type="text"
name="email" id="email" /></div>
  <select id="role"><option value="-2">Remove Account</option><option
value="-1">Pending</option><option value="0">User</option><option
value="1">Admin</option></select>
  <div><input type="submit" value="Update Profile" id="butUpdProf" /></div>
  <hr />
  <div class="left req"><label for="password">Password</label><input
type="password" name="password" id="pwd" style="width:175px" /></div>
  <div class="right req"><label for="chk">Re-Type Password</label><input
type="password" name="chk" id="chk" style="width:175px" /></div>
  <div><input type="submit" value="Update Password" id="butUpdPwd" /></div>
</div>
<div id="header">
  <div class="alignCenter">
    
    
    
  </div>
  <h1>Marina Economic Impact Calculator</h1>
  <h3>This calculator tool estimates the economic impacts of marinas using
regional economic multipliers.</h3>
  <ul id="amenu"><li><a id="butuadmin">User Administration</a></li><li><a
id="butstats">Statistics</a></li><li><a id="butprof">Profile</a></li><li><a
id="butlgout">Log Out</a></li></ul>
  <ul id="umenu"><li><a href="documentation.php">Documentation</a></li><li><a
id="butmap">View Region Map</a></li><li><a id="butprof">Profile</a></li><li><a
id="butlgout">Log Out</a></li></ul>
  <!-- Calculation Form -->

```


<div id="info">For Gross Operating Revenues, enter the value in the field below. Calculated impacts for your region will be shown in the tables that appear. Click the "Run Calculation" button to clear all entries and recalculate with the current selected values.</div>

```
<div id="frm">
  <div><label for="state">State</label>
  <select name="state" id="calcstate" />
    <option>Please Select</option>
    <option value="Alabama" data-reg="Gulf of Mexico">Alabama</option>
    <option value="Alaska" data-reg="Pacific North">Alaska</option>
    <option value="Arizona" data-reg="Central">Arizona</option>
    <option value="Arkansas" data-reg="Central">Arkansas</option>
    <option value="California" data-reg="Pacific
South">California</option>
    <option value="Colorado" data-reg="Central">Colorado</option>
    <option value="Connecticut" data-reg="Atlantic
North">Connecticut</option>
    <option value="Delaware" data-reg="Atlantic North">Delaware</option>
    <option value="District of Columbia" data-reg="Atlantic
North">District of Columbia</option>
    <option value="Florida East" data-reg="Atlantic South">Florida
East</option>
    <option value="Florida West" data-reg="Gulf of Mexico">Florida
West</option>
    <option value="Georgia" data-reg="Atlantic South">Georgia</option>
    <option value="Hawaii" data-reg="Pacific South">Hawaii</option>
    <option value="Idaho" data-reg="Central">Idaho</option>
    <option value="Illinois" data-reg="Central">Illinois</option>
    <option value="Indiana" data-reg="Central">Indiana</option>
    <option value="Iowa" data-reg="Central">Iowa</option>
    <option value="Kansas" data-reg="Central">Kansas</option>
    <option value="Kentucky" data-reg="Central">Kentucky</option>
    <option value="Louisiana" data-reg="Gulf of Mexico">Louisiana</option>
    <option value="Maine" data-reg="Atlantic North">Maine</option>
    <option value="Maryland" data-reg="Atlantic North">Maryland</option>
    <option value="Massachusetts" data-reg="Atlantic
North">Massachusetts</option>
    <option value="Michigan" data-reg="Central">Michigan</option>
    <option value="Minnesota" data-reg="Central">Minnesota</option>
    <option value="Mississippi" data-reg="Gulf of
Mexico">Mississippi</option>
    <option value="Missouri" data-reg="Central">Missouri</option>
    <option value="Montana" data-reg="Central">Montana</option>
    <option value="Nebraska" data-reg="Central">Nebraska</option>
    <option value="Nevada" data-reg="Central">Nevada</option>
    <option value="New Hampshire" data-reg="Atlantic North">New
Hampshire</option>
    <option value="New Jersey" data-reg="Atlantic North">New
Jersey</option>
    <option value="New Mexico" data-reg="Central">New Mexico</option>
    <option value="New York East" data-reg="Atlantic North">New York
East</option>
    <option value="New York West" data-reg="Central">New York
West</option>
    <option value="North Carolina" data-reg="Atlantic South">North
Carolina</option>
    <option value="North Dakota" data-reg="Central">North Dakota</option>
    <option value="Ohio" data-reg="Central">Ohio</option>
    <option value="Oklahoma" data-reg="Central">Oklahoma</option>
    <option value="Oregon" data-reg="Pacific North">Oregon</option>
```

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        <option value="Pennsylvania East" data-reg="Atlantic
North">Pennsylvania East</option>
        <option value="Pennsylvania West" data-reg="Central">Pennsylvania
West</option>
        <option value="Rhode Island" data-reg="Atlantic North">Rhode
Island</option>
        <option value="South Carolina" data-reg="Atlantic South">South
Carolina</option>
        <option value="South Dakota" data-reg="Central">South Dakota</option>
        <option value="Tennessee" data-reg="Central">Tennessee</option>
        <option value="Texas" data-reg="Gulf of Mexico">Texas</option>
        <option value="Utah" data-reg="Central">Utah</option>
        <option value="Vermont" data-reg="Central">Vermont</option>
        <option value="Virginia" data-reg="Atlantic North">Virginia</option>
North">Washington</option>
        <option value="West Virgina" data-reg="Central">West Virgina</option>
        <option value="Wisconsin" data-reg="Central">Wisconsin</option>
        <option value="Wyoming" data-reg="Central">Wyoming</option>
</select></div>
<div><label for="region">Region</label>
    <input type="text" id="calcreg" disabled="disabled" />
</div>
<div><label for="year">Year</label>
<select name="year" id="year">
    <option value="2013">2013</option>
    <option value="2014">2014</option>
    <option value="2015">2015</option>
    <option value="2016">2016</option>
    <option value="2017">2017</option>
    <option value="2018">2018</option>
    <option value="2019">2019</option>
    <option value="2020">2020</option>
    <option value="2021">2021</option>
    <option value="2022">2022</option>
    <option value="2023">2023</option>
    <option value="2024">2024</option>
    <option value="2025">2025</option>
    <option value="2026">2026</option>
    <option value="2027">2027</option>
    <option value="2028">2028</option>
    <option value="2029">2029</option>
    <option value="2030">2030</option>
</select></div>
<div><label for="revenue">Revenue</label><input type="text" name="rev"
id="rev" /></div>
<div><input type="submit" id="runCalc" value="Run Calculation" /></div>
</div>
<!-- End Calculation Form -->
</div>
<div id="adminwrap">
    <div id="uadmin">
        <div id="uTable">
            <h2>User Administration</h2>
            <table>
                <tr>
                    <th>Name</th>
                    <th>Email</th>
                </tr>
            </table>
        </div>
    </div>
</div>

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</div>
<div id="stats">
  <div class="left"><label for="stdt">Start Date</label><input type="text"
id="stdt" value="10/1/15" /></div>
  <div class="left"><label for="endtd">End Date</label><input type="text"
id="endtd" value="11/17/15" /></div>
  <div class="left" style="margin-top: 10px;"><input type="submit"
id="butRunStats" value="Run Statistics" /></div>
  <div class="left" id="statTotal"></div>
  <br style="clear:both" />
  <h2>Impact Calculation Statistics</h2>
  <table>
    <tr>
      <td width="20%">&nbsp;</td>
      <td width="15%">Industry Output</td>
      <td width="15%">Employment</td>
      <td width="15%">Value Added</td>
      <td width="15%">Labor Income</td>
      <td width="15%">Business Taxes</td>
    </tr>
    <tr>
      <td>Minimum</td>
      <td id="minOutput"></td>
      <td id="minJob"></td>
      <td id="minVal"></td>
      <td id="minLabor"></td>
      <td id="minTax"></td>
    </tr>
    <tr>
      <td>Average</td>
      <td id="avgOutput"></td>
      <td id="avgJob"></td>
      <td id="avgVal"></td>
      <td id="avgLabor"></td>
      <td id="avgTax"></td>
    </tr>
    <tr>
      <td>Maximum</td>
      <td id="maxOutput"></td>
      <td id="maxJob"></td>
      <td id="maxVal"></td>
      <td id="maxLabor"></td>
      <td id="maxTax"></td>
    </tr>
  </table>

  <h2>Calculation Logs</h2>
  <table id="calclog">
    <tr>
      <td width="20%">Name</td>
      <td width="20%">Location</td>
      <td width="10%">Timestamp</td>
      <td>Output</td>
      <td>Employment</td>
      <td width="15%">Value Added</td>
      <td width="15%">Labor Income</td>
      <td width="15%">Business Taxes</td>
    </tr>
  </table>
</div>

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<div id="calc"><!-- Calculation Results -->
  <div id="a" class="dTable">
    <h2>Total Economic Impacts by Effect and Type of Impact</h2>
<table>
  <tr>
    <th width="30%">Impact Effect/Type</th>
    <th width="15%">Output</th>
    <th>Employment<br />(Jobs)</th>
    <th width="15%">Value Added</th>
    <th width="15%">Labor Income</th>
    <th width="15%">Business Taxes</th>
  </tr>
  <tr data-row="Direct">
    <td>Direct</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Indirect">
    <td>Indirect</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Induced">
    <td>Induced</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
  <tr data-row="Total">
    <td>Total Impact</td>
    <td data-cell="Out"></td>
    <td data-cell="Emp"></td>
    <td data-cell="Val"></td>
    <td data-cell="Lab"></td>
    <td data-cell="Tax"></td>
  </tr>
</table>
<blockquote>
  <ul class="footnote">
    <li>Industry output represents sales revenues. Employment represents fulltime and part-time jobs.</li>
    <li>Value added represents the sum of labor income, other property income (interest, rents, royalties, corporate profits) and business taxes; it is also equivalent to Gross Domestic Product (GDP). Labor income represents employee compensation and benefits and business owner (proprietor) income. Business taxes includes taxes on property and retail sales, vehicle licenses, severance taxes, excise taxes, customs duties, and various other minor state and local taxes.</li>
    <li>See the table below for a more detailed listing of local/state and federal tax impacts, including other taxes such as personal taxes, social insurance taxes (Social Security), and corporate profits taxes.</li>
    <li>Note that these economic measures are independent and should not be added together</li>
  </ul>

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    </blockquote>
</div>
<!------- Table B ----->
<div id="b" class="dTable">
    <h2>Economic Impacts by 2-digit NAICS sectors</h2>
<table>
    <tr>
        <th width="30%">2-Digit NAICS Sector</th>
        <th width="15%">Output</th>
        <th>Employment<br />(Jobs)</th>
        <th width="15%">Value Added</th>
        <th width="15%">Labor Income</th>
        <th width="15%">Business Taxes</th>
    </tr>
    <tr data-row="Agriculture, Forestry, Fisheries">
        <td>Agriculture, Forestry, Fisheries</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Mining">
        <td>Mining</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Utilities">
        <td>Utilities</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Construction">
        <td>Construction</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Manufacturing">
        <td>Manufacturing</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Wholesale trade">
        <td>Wholesale Trade</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>

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</tr>
<tr data-row="Retail Trade">
  <td>Retail Trade</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Transportation">
  <td>Transportation</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Information and Communications">
  <td>Information and Communications</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Finance and Insurance">
  <td>Finance and Insurance</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Real Estate and Rentals">
  <td>Real Estate and Rentals</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Professional and Technical Services">
  <td>Professional and Technical Services</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Management of Companies">
  <td>Management of Companies</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>
  <td data-cell="Val"></td>
  <td data-cell="Lab"></td>
  <td data-cell="Tax"></td>
</tr>
<tr data-row="Administrative and Waste Services">
  <td>Administrative and Waste Services</td>
  <td data-cell="Out"></td>
  <td data-cell="Emp"></td>

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        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Education">
        <td>Education</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Health Care and Social Services">
        <td>Health Care and Social Services</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Arts, Entertainment and Recreation">
        <td>Arts, Entertainment and Recreation</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Accommodation and Food Services">
        <td>Accommodation and Food Services</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Other Services">
        <td>Other Services</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <tr data-row="Government and non-NAICS">
        <td>Government and non-NAICS</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr>
    <!--<tr data-row="Total">
        <td>Total</td>
        <td data-cell="Out"></td>
        <td data-cell="Emp"></td>
        <td data-cell="Val"></td>
        <td data-cell="Lab"></td>
        <td data-cell="Tax"></td>
    </tr-->
</table>

```

```

</div>
<!------- Table C ----->
<div id="c" class="dTable sm">
  <h2>State and Local Tax Impacts</h2>
<table>
  <tr>
    <th width="80%">Description</th>
    <th>$ Amount</th>
  </tr>
  <tr data-row="Dividends">
    <td>Dividends</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Social Ins Tax- Employee Contribution">
    <td>Social Ins Tax- Employee Contribution</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Social Ins Tax- Employer Contribution">
    <td>Social Ins Tax- Employer Contribution</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Sales Tax">
    <td>Tax on Production and Imports: Sales Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Property Tax">
    <td>Tax on Production and Imports: Property Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Motor Vehicle Lic">
    <td>Tax on Production and Imports: Motor Vehicle Lic</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Severance Tax">
    <td>Tax on Production and Imports: Severance Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Other Taxes">
    <td>Tax on Production and Imports: Other Taxes</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: S/L NonTaxes">
    <td>Tax on Production and Imports: S/L NonTaxes</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Corporate Profits Tax">
    <td>Corporate Profits Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Personal Tax: Income Tax">
    <td>Personal Tax: Income Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Personal Tax: NonTaxes (Fines- Fees)">
    <td>Personal Tax: NonTaxes (Fines- Fees)</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Personal Tax: Motor Vehicle License">
    <td>Personal Tax: Motor Vehicle License</td>
    <td data-cell="Out"></td>
  </tr>

```



```

<tr data-row="Personal Tax: Property Taxes">
  <td>Personal Tax: Property Taxes</td>
  <td data-cell="Out"></td>
</tr>
<tr data-row="Personal Tax: Other Tax (Fish/Hunt)">
  <td>Personal Tax: Other Tax (Fish/Hunt)</td>
  <td data-cell="Out"></td>
</tr>
<tr data-row="Total State and Local Tax">
  <td>Total State and Local Tax</td>
  <td data-cell="Out"></td>
</tr>
</table>
</div>

```

<!----- Table D ----->

```

<div id="d" class="dTable sm">
  <h2>Federal Tax Impacts</h2>

```

```

<table>
  <tr>
    <th width="80%">Description</th>
    <th>$ Amount</th>
  </tr>
  <tr data-row="Social Ins Tax- Employee Contribution">
    <td>Social Ins Tax- Employee Contribution</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Social Ins Tax- Employer Contribution">
    <td>Social Ins Tax- Employer Contribution</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Excise Taxes">
    <td>Tax on Production and Imports: Excise Taxes</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Custom Duty">
    <td>Tax on Production and Imports: Custom Duty</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Tax on Production and Imports: Fed NonTaxes">
    <td>Tax on Production and Imports: Fed NonTaxes</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Corporate Profits Tax">
    <td>Corporate Profits Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Personal Tax: Income Tax">
    <td>Personal Tax: Income Tax</td>
    <td data-cell="Out"></td>
  </tr>
  <tr data-row="Total Federal Tax">
    <td>Total Federal Tax</td>
    <td data-cell="Out"></td>
  </tr>
</table>

```

```

</div>
<div id="d" class="dTable sm">
  <table>
    <tr>

```

 <th style="text-align:left;width:80%">Total Local, State & Federal Tax</th>

```
        <td style="text-align:right" id="txTot"></td>
    </tr>
</table>
</div>
<form action="mkPDF.php" method="post" class="mkPDF"><input type="submit"
id="mkPDF" value="Save as PDF" /><input type="hidden" name="calc" id="jsonhld"
/></form>
</div>
<div id="footer">
    
    
    
    
</div>
</body>
</html>
```