



## **The Impact of Resource Based Industries on the Maryland Economy**

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## Introduction

This economic impact study measures the importance of resource based industries (RBI) to the state of Maryland, as well as each county and region (i.e. Western, Central, Southern, Eastern Shore, and sub-regions). The total economic impact of resource based industries in 2015 equaled \$23.3 billion, supported over 94,500 jobs, and generated nearly \$902 million in state and local tax revenue (see Tables 1 to 3 for more details).<sup>1</sup> To put these magnitudes into perspective, the economic output of RBI industries is equivalent to 6.8% of Maryland's personal income and 6.3% of Maryland's gross domestic product (GDP).<sup>2</sup> At the same time, total jobs supported by RBI activities (94,535) equals 3.1% of Maryland's total employment.<sup>3</sup> Of the RBI industries, the Food, Feed, and Fiber production industries (which include agriculture, forestry, seafood, and aquaculture) accounts for \$19.66 billion in economic activity (84.4% of the RBI total), 83,619 supported jobs (88.5% of the RBI total), and \$753 million in state and local tax revenue (83.5% of the RBI total). In short, RBI activities are large and crucially important to the overall health of the Maryland economy.

Breaking-down the RBI economic output total by industry, agriculture contributed \$3.3 billion to the state economy (14.3% of RBI total), supported 23,878 jobs (25.26% of RBI total), and added nearly \$110 million in combined state and local tax revenue (12.18% of RBI total). Forestry activity and wood derivatives contributed nearly \$3.5 billion to the state economy (14.89% of RBI total), supported 15,271 jobs (16.15% of RBI total), and added nearly \$133 million in combined state and local tax revenue (14.7% of RBI total). Mining contributed nearly \$642 million to the state economy (2.76% of RBI total), supported 2,821 jobs (2.98% of RBI total), and added over \$36 million in combined state and local tax revenue (4.02% of RBI total). Natural gas activities contributed over \$3 billion to the state economy (12.92% of RBI total), supported 8,095 jobs (8.56% of RBI total), and added over \$113 million in combined state and local tax revenue (12.54% of RBI total). Seafood and Aquaculture contributed nearly \$355 million to the state economy (1.52% of RBI total), supported 3,341 jobs (3.53% of RBI total), and added nearly \$15 million in combined state and local tax revenue (1.65% of RBI total).<sup>4</sup> Finally, we

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<sup>1</sup> 2015 is the latest year in which complete datasets are available for IMPLAN and complete data has been released by the federal government.

<sup>2</sup> According to the U.S. Bureau of Economic Analysis, Maryland's seasonally adjusted personal income totaled \$341.371 billion in the fourth quarter of 2015, while Maryland's seasonally adjusted gross domestic product equaled \$370.908 billion over the same period.

<sup>3</sup> According to the U.S. Bureau of Labor Statistics, Maryland's total seasonally adjusted employment in December 2015 totaled 3,001,317.

<sup>4</sup> This report does not include recreational fishing (only commercial fishing), because such data are not collected and reported by the federal government. Furthermore, most aquaculture activities (NAICS codes 112511, 112512,

include those in-state industries that rely on Maryland's agricultural firms for their supply-chain input (e.g. a Maryland-based canned vegetable manufacturer who relies on Maryland farmers for their fresh vegetable supply). These agricultural-reliant "support industries" contributed nearly \$12.5 billion to the state economy (53.61% of RBI total), supported 41,129 jobs (43.51% of RBI total), and added over \$495 million in combined state and local tax revenue (54.92% of RBI total).

Agriculture, Forestry, Aquaculture, and Support Industries were combined into a separate sector called Food/Feed/Fiber. This combined sector had a total economic impact of over \$19.6 billion, supported close to 84,000 jobs, and generated a fiscal impact of over \$752.4 million for Maryland. *(For methodological reasons, this aggregation does not include the \$1.08 billion contributed to Maryland's Economy by the Equine Industry).*

Breaking-down the RBI economic impact by region, Western Maryland contributed nearly \$4.6 billion to the state economy (19.6% of the RBI total), supported 21,556 jobs (22.8% of RBI total), and added over \$193 million in combined state and local tax revenue (21.5% of RBI total). Central Maryland contributed nearly \$9.4 billion to the state economy (40.3% of the RBI total), supported 31,468 jobs (33.3% of RBI total), and added over \$343 million in combined state and local tax revenue (38.1% of RBI total). Southern Maryland contributed over \$3.2 billion to the state economy (13.9% of the RBI total), supported 15,933 jobs (16.9% of RBI total), and added nearly \$160 million in combined state and local tax revenue (17.7% of RBI total). Finally, the Eastern Shore of Maryland contributed nearly \$6.1 billion to the state economy (26.2% of the RBI total), supported 25,578 jobs (27.1% of RBI total), and added over \$205 million in combined state and local tax revenue (22.8% of RBI total).

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and 112519) could not be separated from the much broader and primarily agricultural sector "animal production, except cattle and poultry and eggs" (IMPLAN code 14).

**Table 1. Resource Industry Economic Impacts:  
Output**

**All RBI Industry Sectors**

Geographic Entity	Sector Output			Total	% of Total
	Direct	Indirect	Induced		
<b>State of Maryland</b>	17,688,803,923	3,519,383,495	2,062,983,663	23,271,171,081	100.0%
<b>Regions</b>					
Western Maryland	3,344,529,869	762,543,946	461,659,715	4,568,733,530	19.6%
Appalachian Maryland	1,691,169,611	343,110,546	238,444,942	2,272,725,099	9.8%
Central Maryland	7,208,303,016	1,352,508,696	810,429,320	9,371,241,033	40.3%
Southern Maryland	2,507,096,219	445,581,937	284,513,968	3,237,192,124	13.9%
Eastern Shore of Maryland	4,628,874,819	958,748,915	506,380,660	6,094,004,394	26.2%
Upper Eastern Shore	832,295,189	137,772,684	98,959,109	1,069,026,983	4.6%
Mid Shore	2,060,919,942	376,441,902	192,338,730	2,629,700,573	11.3%
Lower Eastern Shore	1,735,659,688	444,534,329	215,082,821	2,395,276,838	10.3%
<b>Counties</b>					
Allegany	631,475,275	104,433,698	65,432,881	801,341,854	3.4%
Anne Arundel	932,149,142	194,452,716	142,866,266	1,269,468,124	5.5%
Baltimore	2,087,724,722	331,276,760	287,654,036	2,706,655,518	11.6%
Baltimore City	2,290,004,605	384,913,244	146,081,627	2,820,999,476	12.1%
Calvert	88,179,440	14,767,101	7,637,458	110,583,998	0.5%
Caroline	623,606,366	128,348,769	56,383,641	808,338,777	3.5%
Carroll	497,690,870	118,653,097	70,434,267	686,778,234	3.0%
Cecil	242,117,462	30,046,350	36,757,909	308,921,721	1.3%
Charles	108,726,915	24,270,199	8,035,482	141,032,596	0.6%
Dorchester	1,168,905,019	191,504,854	93,135,917	1,453,545,791	6.2%
Frederick	1,155,669,388	300,780,303	152,780,506	1,609,230,197	6.9%
Garrett	390,691,668	110,396,096	72,345,521	573,433,285	2.5%
Harford	599,156,039	101,740,775	61,747,232	762,644,046	3.3%
Howard	1,495,065,287	397,219,375	198,832,262	2,091,116,923	9.0%
Kent	310,870,864	51,783,649	27,770,055	390,424,568	1.7%
Montgomery	736,352,363	137,358,543	116,114,164	989,825,069	4.3%
Prince George's	1,270,504,801	194,397,067	118,399,821	1,583,301,689	6.8%
Queen Anne's	279,306,863	55,942,686	34,431,145	369,680,694	1.6%
St. Mary's	107,535,921	17,694,854	7,574,941	132,805,717	0.6%
Somerset	322,404,518	74,903,536	30,593,342	427,901,396	1.8%
Talbot	268,408,556	56,588,278	42,819,171	367,816,006	1.6%
Washington	669,002,668	128,280,752	100,666,539	897,949,959	3.9%
Wicomico	987,939,892	295,378,898	150,492,204	1,433,810,994	6.2%
Worcester	425,315,277	74,251,896	33,997,275	533,564,448	2.3%

**Table 2. Resource Industry Economic Impacts: Employment**

**All RBI Industry Sectors**

Geographic Entity	Direct	Indirect	Sector Output		% of Total
			Induced	Total	
<b>State of Maryland</b>	56,452	22,228	15,855	94,535	100.0%
<b>Regions</b>					
Western Maryland	12,302	5,374	3,880	21,556	22.8%
Appalachian Maryland	6,388	2,380	2,086	10,855	11.5%
Central Maryland	18,516	7,250	5,702	31,468	33.3%
Southern Maryland	10,441	3,358	2,134	15,933	16.9%
Eastern Shore of Maryland	15,194	6,247	4,138	25,578	27.1%
Upper Eastern Shore	3,747	1,208	857	5,813	6.1%
Mid Shore	6,744	2,399	1,607	10,750	11.4%
Lower Eastern Shore	4,703	2,640	1,673	9,016	9.5%
<b>Counties</b>					
Allegany	1,752	721	584	3,058	3.2%
Anne Arundel	3,635	1,234	1,041	5,910	6.3%
Baltimore	5,681	2,212	2,232	10,125	10.7%
Baltimore City	4,424	1,615	949	6,989	7.4%
Calvert	656	154	62	871	0.9%
Caroline	1,773	819	482	3,074	3.3%
Carroll	2,854	1,321	603	4,778	5.1%
Cecil	1,797	259	309	2,365	2.5%
Charles	907	312	65	1,284	1.4%
Dorchester	3,516	1,144	759	5,419	5.7%
Frederick	3,060	1,673	1,191	5,923	6.3%
Garrett	1,713	821	697	3,230	3.4%
Harford	1,847	825	497	3,169	3.4%
Howard	3,449	1,861	1,264	6,574	7.0%
Kent	842	441	251	1,534	1.6%
Montgomery	3,115	736	760	4,611	4.9%
Prince George's	3,848	1,440	903	6,191	6.5%
Queen Anne's	1,108	509	297	1,913	2.0%
St. Mary's	1,395	218	64	1,676	1.8%
Somerset	729	436	253	1,419	1.5%
Talbot	1,456	435	366	2,257	2.4%
Washington	2,923	839	805	4,567	4.8%
Wicomico	2,743	1,798	1,146	5,686	6.0%
Worcester	1,231	406	274	1,911	2.0%

**Table 3. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**All RBI Industry Sectors**

Sources of Tax Revenue

<b>Geographic Entity</b>	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)	% of Total
<b>State of Maryland</b>	7,579,141	219,368,130	499,720,753	175,022,024	901,690,048	100.0%
<b>Regions</b>						
Western Maryland	1,675,002	49,921,583	118,649,040	23,238,350	193,483,975	21.5%
Appalachian Maryland	861,106	25,497,503	64,247,875	9,649,019	100,255,504	11.1%
Central Maryland	2,877,927	78,236,200	239,633,084	22,388,174	343,135,385	38.1%
Southern Maryland	1,249,064	36,281,317	110,964,841	11,183,718	159,678,940	17.7%
Eastern Shore of Maryland	1,777,149	54,929,029	116,438,149	32,247,421	205,391,748	22.8%
Upper Eastern Shore	353,776	12,000,358	19,403,650	9,911,095	41,668,880	4.6%
Mid Shore	822,778	24,105,878	57,720,761	11,150,994	93,800,411	10.4%
Lower Eastern Shore	600,594	18,822,793	39,313,739	11,185,332	69,922,457	7.8%
<b>Counties</b>						
Allegany	279,074	7,648,181	18,414,527	1,464,209	27,805,992	3.1%
Anne Arundel	471,200	13,414,063	42,825,933	3,230,455	59,941,651	6.6%
Baltimore	917,464	25,047,423	76,146,236	7,394,609	109,505,732	12.1%
Baltimore City	690,619	18,045,345	58,884,963	3,294,391	80,915,318	9.0%
Calvert	66,082	1,968,117	3,936,392	950,840	6,921,431	0.8%
Caroline	215,367	6,769,596	10,555,084	4,300,748	21,840,795	2.4%
Carroll	351,667	10,749,509	21,895,515	6,196,451	39,193,141	4.3%
Cecil	150,539	5,014,843	8,158,022	4,007,753	17,331,157	1.9%
Charles	97,906	2,953,618	6,771,427	1,399,651	11,222,602	1.2%
Dorchester	456,991	12,744,058	36,819,215	4,412,610	54,432,874	6.0%
Frederick	462,229	13,674,571	32,505,651	7,392,880	54,035,330	6.0%
Garrett	257,109	7,643,886	17,520,587	3,325,782	28,747,363	3.2%
Harford	261,467	7,486,391	19,130,573	3,345,646	30,224,077	3.4%
Howard	619,613	16,590,605	52,843,087	4,360,662	74,413,967	8.3%
Kent	91,378	3,145,811	5,777,202	2,550,643	11,565,035	1.3%
Montgomery	388,764	11,066,437	32,628,224	3,992,866	48,076,291	5.3%
Prince George's	526,162	15,012,211	52,301,807	3,612,363	71,452,543	7.9%
Queen Anne's	111,859	3,839,704	5,468,426	3,352,698	12,772,687	1.4%
St. Mary's	87,714	2,933,308	5,129,282	1,990,410	10,140,714	1.1%
Somerset	66,021	2,490,289	2,419,663	2,559,249	7,535,222	0.8%
Talbot	150,420	4,592,225	10,346,462	2,437,635	17,526,742	1.9%
Washington	324,924	10,205,436	28,312,761	4,859,029	43,702,148	4.8%
Wicomico	415,569	12,400,394	29,061,842	5,817,400	47,695,205	5.3%
Worcester	119,004	3,932,110	7,832,234	2,808,682	14,692,030	1.6%

## Food/Feed/Fiber

Aggregate of Agriculture, Forestry, Aquaculture, and Support Industries (*For methodological reasons, this aggregation does not include the \$1.08 billion contributed to Maryland's Economy by the Equine Industry*).

### Resource Industry Economic Impacts:

#### Output

#### Industry Sector: Food/Feed/Fiber

Geographic Entity	Sector Output				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	14,736,233,886	3,085,406,060	1,801,653,860	19,623,293,806	100.0%
<b>Regions</b>					
Western Maryland	2,768,144,239	643,898,635	396,002,014	3,808,044,888	19.4%
Appalachian Maryland	1,205,614,805	239,437,189	182,642,838	1,627,694,832	8.3%
Central Maryland	6,505,127,954	1,263,538,740	739,560,320	8,508,227,013	43.4%
Southern Maryland	1,257,595,832	271,345,448	192,189,031	1,721,130,311	8.8%
Eastern Shore of Maryland	4,205,365,860	906,623,237	473,902,496	5,585,891,593	28.5%
Upper Eastern Shore	655,089,364	116,036,361	88,438,257	859,563,981	4.4%
Mid Shore	1,935,845,882	366,121,270	184,521,813	2,486,488,965	12.7%
Lower Eastern Shore	1,614,430,615	424,465,607	200,942,425	2,239,838,647	11.4%
<b>Counties</b>					
Allegany	579,605,571	94,010,398	58,930,789	732,546,758	3.7%
Anne Arundel	557,153,541	135,996,031	100,028,169	793,177,741	4.0%
Baltimore	1,905,611,671	305,355,781	267,628,969	2,478,596,420	12.6%
Baltimore City	2,182,202,940	375,957,299	136,025,675	2,694,185,914	13.7%
Calvert	80,060,988	14,002,757	7,240,703	101,304,448	0.5%
Caroline	621,056,705	128,074,774	56,141,860	805,273,339	4.1%
Carroll	462,939,622	111,788,263	68,288,221	643,016,105	3.3%
Cecil	180,104,288	24,854,320	31,146,269	236,104,877	1.2%
Charles	64,514,456	17,567,742	6,369,579	88,451,776	0.5%
Dorchester	1,053,718,380	182,999,408	87,086,129	1,323,803,918	6.7%
Frederick	1,099,589,813	292,673,183	145,070,955	1,537,333,951	7.8%
Garrett	262,227,913	88,773,299	50,062,544	401,063,756	2.0%
Harford	586,874,184	100,011,007	59,535,805	746,420,996	3.8%
Howard	1,383,194,177	377,400,497	190,531,647	1,951,126,321	9.9%
Kent	198,582,242	36,004,460	23,141,598	257,728,300	1.3%
Montgomery	447,244,982	104,814,156	85,838,224	637,897,361	3.3%
Prince George's	475,429,064	87,404,498	71,616,740	634,450,302	3.2%
Queen Anne's	276,402,834	55,177,582	34,150,390	365,730,805	1.9%
St. Mary's	80,437,784	16,374,420	6,933,840	103,746,044	0.5%
Somerset	321,833,351	74,743,058	30,546,551	427,122,960	2.2%
Talbot	261,070,797	55,047,087	41,293,824	357,411,708	1.8%
Washington	363,781,321	56,653,492	73,649,505	494,084,318	2.5%
Wicomico	883,642,668	279,668,621	138,078,110	1,301,389,398	6.6%
Worcester	408,954,596	70,053,928	32,317,765	511,326,289	2.6%

**Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Food/Feed/Fiber**

Geographic Entity	Sector Output				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	50,558	19,219	13,842	83,619	100.0%
<b>Regions</b>					
Western Maryland	10,566	4,599	3,313	18,478	22.1%
Appalachian Maryland	4,864	1,736	1,597	8,197	9.8%
Central Maryland	17,415	6,716	5,212	29,343	35.1%
Southern Maryland	8,218	2,064	1,443	11,725	14.0%
Eastern Shore of Maryland	14,359	5,840	3,873	24,072	28.8%
Upper Eastern Shore	3,510	1,034	766	5,309	6.3%
Mid Shore	6,504	2,331	1,543	10,378	12.4%
Lower Eastern Shore	4,345	2,475	1,565	8,385	10.0%
<b>Counties</b>					
Allegany	1,579	653	526	2,758	3.3%
Anne Arundel	2,843	830	728	4,402	5.3%
Baltimore	5,295	2,020	2,077	9,391	11.2%
Baltimore City	4,333	1,568	884	6,784	8.1%
Calvert	644	150	59	852	1.0%
Caroline	1,765	818	480	3,063	3.7%
Carroll	2,735	1,247	585	4,567	5.5%
Cecil	1,669	222	262	2,153	2.6%
Charles	752	263	51	1,066	1.3%
Dorchester	3,331	1,089	710	5,130	6.1%
Frederick	2,967	1,616	1,131	5,714	6.8%
Garrett	1,304	671	482	2,458	2.9%
Harford	1,793	813	479	3,086	3.7%
Howard	3,276	1,757	1,211	6,244	7.5%
Kent	766	311	209	1,287	1.5%
Montgomery	2,718	558	562	3,838	4.6%
Prince George's	2,599	611	547	3,757	4.5%
Queen Anne's	1,074	501	294	1,870	2.2%
St. Mary's	1,381	210	58	1,649	2.0%
Somerset	725	435	253	1,413	1.7%
Talbot	1,408	424	353	2,186	2.6%
Washington	1,981	412	589	2,981	3.6%
Wicomico	2,581	1,677	1,051	5,309	6.3%
Worcester	1,039	364	261	1,663	2.0%

**Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Food/Feed/Fiber**

<b>Geographic Entity</b>	Employee Compensation	Household Expenditures	Sources of Tax Revenue			% of Total
			Corporations	Taxes on Production and Imports	Total (\$)	
<b>State of Maryland</b>	6,714,021	193,119,248	467,417,078	85,145,621	752,395,968	100%
<b>Regions</b>						
Western Maryland	1,424,250	42,387,818	86,004,623	22,009,974	151,826,666	20%
Appalachian Maryland	643,996	18,980,955	36,125,485	8,577,215	64,327,651	9%
Central Maryland	2,708,659	73,109,791	216,699,637	21,610,809	314,128,896	42%
Southern Maryland	923,177	26,310,980	64,600,180	9,814,865	101,649,201	14%
Eastern Shore of Maryland	1,657,935	51,310,659	100,112,637	31,709,973	184,791,204	25%
Upper Eastern Shore	312,987	10,772,486	14,041,578	9,714,270	34,841,321	5%
Mid Shore	792,641	23,198,978	53,765,556	11,005,198	88,762,373	12%
Lower Eastern Shore	552,307	17,339,194	32,305,504	10,990,505	61,187,510	8%
<b>Counties</b>						
Allegany	251,812	6,859,630	15,536,470	1,291,883	23,939,795	1.1%
Anne Arundel	354,409	9,840,502	26,200,995	2,740,396	39,136,303	2.3%
Baltimore	858,653	23,270,078	68,261,604	7,119,695	99,510,030	5.4%
Baltimore City	674,897	17,563,409	56,627,494	3,229,551	78,095,352	0.0%
Calvert	64,313	1,916,720	3,744,315	939,972	6,665,321	1.3%
Caroline	214,345	6,740,161	10,449,979	4,294,127	21,698,612	6.5%
Carroll	335,831	10,259,185	19,514,029	6,137,363	36,246,408	8.6%
Cecil	131,684	4,464,501	6,058,554	3,894,860	14,549,598	6.0%
Charles	80,059	2,418,589	4,474,086	1,310,711	8,283,444	1.8%
Dorchester	433,553	12,038,444	33,736,604	4,299,601	50,508,201	4.0%
Frederick	444,423	13,147,678	30,365,110	7,295,396	51,252,607	9.3%
Garrett	186,301	5,599,988	10,138,544	2,872,801	18,797,633	4.1%
Harford	254,210	7,273,285	18,294,089	3,303,841	29,125,425	3.8%
Howard	593,054	15,788,600	49,296,395	4,235,705	69,913,754	2.3%
Kent	72,717	2,569,323	3,000,037	2,479,320	8,121,397	3.9%
Montgomery	327,845	9,214,420	24,220,055	3,722,016	37,484,336	3.9%
Prince George's	338,953	9,269,719	25,338,946	2,844,976	37,792,593	2.5%
Queen Anne's	108,586	3,738,663	4,982,986	3,340,091	12,170,326	5.1%
St. Mary's	85,443	2,865,450	4,841,837	1,978,810	9,771,540	2.9%
Somerset	65,478	2,474,644	2,363,797	2,555,730	7,459,648	4.1%
Talbot	144,743	4,420,374	9,578,972	2,411,470	16,555,560	3.2%
Washington	205,883	6,521,337	10,450,472	4,412,532	21,590,223	6.6%
Wicomico	386,513	11,509,538	24,885,948	5,697,787	42,479,786	7.4%
Worcester	100,316	3,355,012	5,055,759	2,736,989	11,248,076	4.1%

## Agriculture

The agriculture sector consists of oilseed farming, grain farming, vegetable and melon farming, fruit farming, greenhouse, nursery, and floriculture production, tobacco farming, cotton farming, sugarcane and sugar beet farming, all other crop farming, beef cattle ranching and farming (including feedlots and dual-purpose ranching and farming), dairy cattle and milk production, poultry and egg production, animal production (except cattle and poultry and eggs), and commercial hunting and trapping. A complete list of the agriculture industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 4. These industries represent the agricultural commodity producers (i.e. the farmers). The immediate “down-stream” processors and refiners who rely on these RBI products (e.g. flour milling) are included in the “support industries” sector.

In 2015, the agriculture sector contributed \$3.3 billion to the state economy (14.3% of RBI total), supported 23,878 jobs (25.26% of RBI total), and added nearly \$110 million in combined state and local tax revenue (12.18% of RBI total). Breaking these total impacts down (see Table 5), the agriculture sector generated over \$2.4 billion in “direct” economic output in 2015. This equals the value of all of the output of the agricultural sector *plus* the value of the Maryland-based supply chain needed by Maryland Ag producers to produce their crops/livestock. For example, if a dairy farmer requires outside feed or veterinary services in order to produce fluid milk, these supply-chain expenditures would be included in the “direct” output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if a veterinarian needs to provide more care, she will need to purchase more medicine, fuel, insurance services, etc. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as “indirect” economic output. In 2015, the activities of the agricultural sector were responsible for an “indirect” economic output of just over \$508 million. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional “induced” economic effect. In 2015, the activities of the agricultural sector were responsible for “induced” economic output totaling nearly \$419 million. Summing these economic impacts, Maryland agriculture contributed over \$3.3 billion in total state economic activity.

With respect to jobs, the “direct” economic impact of the agriculture sector supported 16,319 jobs in 2015 (see Table 6). The resulting ripple-effect of these activities supported 4,169 jobs due to “indirect” economic effects, and an additional 3,391 jobs due to “induced” economic effects (see the

previous paragraph for an explanation of this terminology). Summing these economic impacts, Maryland agriculture supported a total of 23,878 jobs.

Breaking-down the economic impact of agriculture by region, Western Maryland contributed nearly \$738 million to the state economy (22.2% of state agricultural impact), supported 7,095 jobs (29.7% of state agricultural job impact), and added nearly \$33 million in combined state and local tax revenue (30% of state agricultural tax impact). Central Maryland agriculture contributed nearly \$312 million to the state economy (9.4% of state agricultural impact), supported 3,673 jobs (15.4% of state agricultural job impact), and added nearly \$17 million in combined state and local tax revenue (15% of state agricultural tax impact). Southern Maryland agriculture contributed over \$153 million to the state economy (4.6% of state agricultural impact), supported 2,572 jobs (10.8% of state agricultural job impact), and added nearly \$12 million in combined state and local tax revenue (11% of state agricultural tax impact). Finally, Eastern Shore agriculture contributed over \$2.1 billion to the state economy (63.9% of state agricultural impact), supported 10,539 jobs (44.1% of state agricultural job impact), and added over \$48 million in combined state and local tax revenue (44% of state agricultural tax impact).

## Equine Industry

The economic impact estimation for Maryland's equine industry was undertaken as a subset of agriculture and therefore excludes racetrack operations and gambling. Statewide, the industry supported 5,028 jobs directly (\$275,261,275 in Labor Income) and another 2,974 jobs due to direct and indirect impacts (\$153,573,215 in Labor Income). The sector contributed \$1,079,497,270 to Maryland's economy (\$622,674,641 Direct plus \$456,822,629 Indirect and Induced). The industry generated \$64,611,710 in state and local taxes.

Arguably, some components of the equine industry impact can be incorporated into the *Food, Feed, and Fiber* cluster. Unfortunately, resource and methodological limitations have made this impossible for this study. A very comprehensive analysis of the equine industry in Maryland was recently conducted by the *Sage Policy Group, Inc.* (commissioned by *Maryland Horse Industry Partners*). A copy of this study released in October of 2016 can be downloaded from the following website:

<http://mda.maryland.gov/horseboard/Documents/MHIB-2016-Economic-Impact-Report.pdf>

**Table 4. IMPLAN and NACIS Industries in the Agriculture Sector**

<b>Agriculture</b>			
NAICS Codes	NAICS Industries	IMPLAN Code	Industry
111110	Soybean Farming	1	Oilseed farming
111120	Oilseed (except Soybean) Farming	1	
111130	Dry Pea and Bean Farming	2	Grain farming
111140	Wheat Farming	2	
111150	Corn Farming	2	
111160	Rice Farming	2	
111191	Oilseed and Grain Combination Farming	2	
111199	All Other Grain Farming	2	
111211	Potato Farming	3	Vegetable and melon farming
111219	Other Vegetable (except Potato) and Melon Farming	3	
111310	Orange Groves	4	Fruit farming
111320	Citrus (except Orange) Groves	4	
111331	Apple Orchards	4	
111332	Grape Vineyards	4	
111333	Strawberry Farming	4	
111334	Berry (except Strawberry) Farming	4	
111335	Tree Nut Farming	4	
111336	Fruit and Tree Nut Combination Farming	4	
111339	Other Non-citrus Fruit Farming	4	
111411	Mushroom Production	6	Greenhouse, nursery, and floriculture production
111419	Other Food Crops Grown Under Cover	6	
111421	Nursery and Tree Production	6	
111422	Floriculture Production	6	
111910	Tobacco Farming	7	Tobacco farming
111920	Cotton Farming	8	Cotton farming
111930	Sugarcane Farming	9	Sugarcane and sugar beet farming
111991	Sugar Beet Farming	9	
111940	Hay Farming	10	All other crop farming
111992	Peanut Farming	10	
111998	All Other Miscellaneous Crop Farming	10	
112111	Beef Cattle Ranching and Farming	11	Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming
112112	Cattle Feedlots	11	
112120	Dairy Cattle and Milk Production	12	Dairy cattle and milk production
112310	Chicken Egg Production	13	Poultry and egg production
112320	Broilers and Other Meat Type Chicken Production	13	
112330	Turkey Production	13	

112340	Poultry Hatcheries	13	
112390	Other Poultry Production	13	
112410	Sheep Farming	14	Animal production, except cattle and poultry and eggs
112420	Goat Farming	14	
112210	Hog and Pig Farming	14	
112910	Apiculture	14	
112920	Horses and Other Equine Production	14	
112930	Fur-Bearing Animal and Rabbit Production	14	
112990	All Other Animal Production	14	
114210	Hunting and Trapping	18	Commercial hunting and trapping

**Table 5. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Agriculture**

Geographic Entity	Sector Output			Total	% of Total
	Direct	Indirect	Induced		
<b>State of Maryland</b>	2,402,152,922	508,006,579	418,620,836	3,328,780,337	100.0%
<b>Regions</b>					
Western Maryland	506,326,005	113,195,256	118,192,267	737,713,529	22.2%
Appalachian Maryland	191,464,610	32,456,650	58,052,106	281,973,366	8.5%
Central Maryland	219,272,553	40,937,569	51,671,770	311,881,891	9.4%
Southern Maryland	119,498,367	18,756,139	15,129,670	153,384,177	4.6%
Eastern Shore of Maryland	1,557,055,997	335,117,614	233,627,128	2,125,800,740	63.9%
Upper Eastern Shore	334,162,418	65,746,880	57,491,764	457,401,062	13.7%
Mid Shore	494,522,229	99,563,067	69,470,853	663,556,149	19.9%
Lower Eastern Shore	728,371,351	169,807,667	106,664,511	1,004,843,529	30.2%
<b>Counties</b>					
Allegany	9,709,762	446,514	1,138,382	11,294,657	0.3%
Anne Arundel	20,814,044	3,452,484	10,042,471	34,308,999	1.0%
Baltimore	85,677,919	13,247,201	24,890,122	123,815,242	3.7%
Baltimore City	0	0	0	0	0.0%
Calvert	13,396,027	2,860,744	-522,480	15,734,290	0.5%
Caroline	277,521,467	62,441,663	31,733,847	371,696,977	11.2%
Carroll	128,863,461	36,441,789	20,705,627	186,010,876	5.6%
Cecil	79,526,016	14,022,113	18,712,211	112,260,339	3.4%
Charles	19,191,536	3,015,486	472,542	22,679,564	0.7%
Dorchester	137,148,335	18,475,536	20,909,354	176,533,225	5.3%
Frederick	185,997,935	44,296,817	39,434,534	269,729,287	8.1%
Garrett	48,674,321	11,933,273	15,444,354	76,051,948	2.3%
Harford	48,786,470	10,537,829	7,885,319	67,209,617	2.0%
Howard	29,035,419	8,086,335	6,562,008	43,683,763	1.3%
Kent	96,745,566	19,307,788	15,890,392	131,943,746	4.0%
Montgomery	55,772,745	9,066,204	12,334,321	77,173,270	2.3%
Prince George's	37,688,890	4,832,865	4,934,060	47,455,815	1.4%
Queen Anne's	157,890,836	32,416,979	22,889,162	213,196,977	6.4%
St. Mary's	28,407,870	4,594,561	203,077	33,205,508	1.0%
Somerset	257,167,958	62,445,979	24,204,863	343,818,799	10.3%
Talbot	79,852,427	18,645,868	16,827,652	115,325,947	3.5%
Washington	133,080,528	20,076,863	41,469,370	194,626,761	5.8%
Wicomico	219,337,746	56,655,401	58,886,041	334,879,188	10.1%
Worcester	251,865,648	50,706,287	23,573,607	326,145,542	9.8%

**Table 6. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Agriculture**

Geographic Entity	Sector Output				
	Direct	Indirect	Induced	Total	% of Total
<b>State of Maryland</b>	16,319	4,169	3,391	23,878	100.0%
<b>Regions</b>					
Western Maryland	4,995	1,124	976	7,095	29.7%
Appalachian Maryland	2,009	316	491	2,816	11.8%
Central Maryland	2,943	350	379	3,673	15.4%
Southern Maryland	2,140	320	112	2,572	10.8%
Eastern Shore of Maryland	6,241	2,374	1,924	10,539	44.1%
Upper Eastern Shore	2,415	670	499	3,584	15.0%
Mid Shore	1,963	689	586	3,238	13.6%
Lower Eastern Shore	1,862	1,016	839	3,717	15.6%
<b>Counties</b>					
Allegany	257	7	10	274	1.1%
Anne Arundel	419	55	73	547	2.3%
Baltimore	980	110	194	1,283	5.4%
Baltimore City	0	0	0	0	0.0%
Calvert	260	51	-4	307	1.3%
Caroline	922	347	272	1,540	6.5%
Carroll	1,439	442	177	2,058	8.6%
Cecil	1,126	145	158	1,429	6.0%
Charles	382	56	4	442	1.8%
Dorchester	603	171	170	944	4.0%
Frederick	1,547	365	308	2,220	9.3%
Garrett	685	139	149	974	4.1%
Harford	748	96	63	907	3.8%
Howard	433	65	42	540	2.3%
Kent	584	199	144	927	3.9%
Montgomery	783	79	81	943	3.9%
Prince George's	490	61	38	589	2.5%
Queen Anne's	705	326	197	1,228	5.1%
St. Mary's	589	98	2	689	2.9%
Somerset	415	355	200	971	4.1%
Talbot	439	171	144	753	3.2%
Washington	1,067	170	331	1,569	6.6%
Wicomico	881	431	449	1,761	7.4%
Worcester	566	229	190	985	4.1%

**Table 7. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Agriculture**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>					<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>	<b>Total (\$)</b>	
<b>State of Maryland</b>	1,029,684	43,977,065	5,065,994	59,712,916	109,785,659	100%
<b>Regions</b>						
Western Maryland	305,949	13,066,851	1,505,253	17,742,425	32,620,477	30%
Appalachian Maryland	121,443	5,186,725	597,491	7,042,636	12,948,295	12%
Central Maryland	158,367	6,763,761	779,160	9,183,967	16,885,256	15%
Southern Maryland	110,921	4,737,357	545,726	6,432,476	11,826,480	11%
Eastern Shore of Maryland	454,447	19,409,096	2,235,856	26,354,049	48,453,447	44%
Upper Eastern Shore	154,535	6,600,071	760,304	8,961,705	16,476,615	15%
Mid Shore	139,612	5,962,712	686,882	8,096,287	14,885,493	14%
Lower Eastern Shore	160,300	6,846,313	788,670	9,296,057	17,091,339	16%
<b>Counties</b>						
Allegany	11,805	504,167	58,078	684,568	1,258,618	1.1%
Anne Arundel	23,575	1,006,887	115,990	1,367,171	2,513,623	2.3%
Baltimore	55,332	2,363,178	272,229	3,208,769	5,899,509	5.4%
Baltimore City	0	0	0	0	0	0.0%
Calvert	13,222	564,685	65,050	766,740	1,409,695	1.3%
Caroline	66,424	2,836,936	326,804	3,852,047	7,082,211	6.5%
Carroll	88,756	3,790,697	436,674	5,147,082	9,463,210	8.6%
Cecil	61,636	2,632,433	303,246	3,574,369	6,571,685	6.0%
Charles	19,047	813,484	93,710	1,104,565	2,030,807	1.8%
Dorchester	40,706	1,738,508	200,270	2,360,579	4,340,062	4.0%
Frederick	95,750	4,089,429	471,087	5,552,706	10,208,972	9.3%
Garrett	41,989	1,793,334	206,585	2,435,024	4,476,933	4.1%
Harford	39,123	1,670,898	192,481	2,268,778	4,171,280	3.8%
Howard	23,270	993,864	114,489	1,349,488	2,481,112	2.3%
Kent	39,957	1,706,536	196,587	2,317,168	4,260,248	3.9%
Montgomery	40,643	1,735,821	199,960	2,356,931	4,333,355	3.9%
Prince George's	25,379	1,083,916	124,863	1,471,762	2,705,921	2.5%
Queen Anne's	52,942	2,261,102	260,470	3,070,168	5,644,681	5.1%
St. Mary's	29,698	1,268,385	146,113	1,722,238	3,166,434	2.9%
Somerset	41,878	1,788,572	206,037	2,428,558	4,465,045	4.1%
Talbot	32,482	1,387,269	159,808	1,883,661	3,463,220	3.2%
Washington	67,649	2,889,224	332,828	3,923,044	7,212,744	6.6%
Wicomico	75,936	3,243,166	373,601	4,403,634	8,096,336	7.4%
Worcester	42,487	1,814,575	209,032	2,463,865	4,529,958	4.1%

## Forestry

The forestry sector consists of forestry, forest products, and timber tract production, commercial logging, sawmills, wood preservations, veneer and plywood manufacturing, engineered wood member and truss manufacturing, reconstituted wood product manufacturing, wood windows and door manufacturing, cut stock, resawing lumber, and planing, other millwork, including flooring, wood container and pallet manufacturing, prefabricated wood building manufacturing, all other miscellaneous wood product manufacturing, pulp mills, paper mills, paperboard mills, paperboard container manufacturing, paper bag and coated and treated paper manufacturing, stationary product manufacturing, sanitary paper product manufacturing, all other converted paper product manufacturing, wood kitchen cabinet and countertop manufacturing, non-upholstered wood household furniture manufacturing, wood office furniture manufacturing, and custom architectural woodwork and millwork. A complete list of the agriculture industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 8. The industries represent the forestry commodity procedures (e.g. logging) and the immediate “downstream” processors, refineries, and manufacturers (e.g. sawmills).

In 2015, the forestry sector contributed nearly \$3.5 billion to the state economy (14.9% of RBI total), supported 15,271 jobs (16.15% of RBI total), and added just over \$132.5 million in combined state and local tax revenue (14.7% of RBI total). Breaking these total impacts down (see Table 9), the forestry sector generated over \$2.5 billion in “direct” economic output in 2015. This equals the value of all of the output of the forestry sector *plus* the value of the Maryland-based supply chain needed by Maryland forestry producers to produce their lumber and paper products. For example, if a timber worker requires outside machinery or repairs to said machinery in order to produce quality wood products, these supply-chain expenditures would be included in the “direct” output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if a machinery supplier needs to provide more products, they will need to purchase more steel, fuel, insurance services, etc. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as “indirect” economic output. In 2015, the activities of the forestry sector were responsible for an “indirect” economic output of nearly \$574.8 million. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional “induced” economic effect. In 2015, the activities of the forestry sector

were responsible for “induced” economic output totaling over \$365 million. Summing these economic impacts, Maryland forestry contributed over \$3.46 billion in total state economic activity.

With respect to jobs, the “direct” economic impact of the forestry sector supported 8,358 jobs in 2015 (see Table 10). The resulting ripple-effect of these activities supported 4,006 jobs due to “indirect” economic effects, and an additional 2,907 jobs due to “induced” economic effects (see the previous paragraph for an explanation of this terminology). Summing these economic impacts, Maryland forestry supported a total of 15,271 jobs.

Breaking-down the economic impact of forestry by region, Western Maryland contributed nearly \$1.23 billion to the state economy (35.4% of state forestry impact), supported 5,313 jobs (34.8% of state forestry job impact), and added over \$46.1 million in combined state and local tax revenue (35% of state forestry tax impact). Central Maryland forestry contributed over \$798 million to the state economy (23% of state forestry impact), supported 3,294 jobs (21.6% of state forestry job impact), and added nearly \$28.6 million in combined state and local tax revenue (22% of state forestry tax impact). Southern Maryland forestry contributed over \$585 million to the state economy (16.9 % of state forestry impact), supported 3,139 jobs (20.6% of state forestry job impact), and added over \$27 million in combined state and local tax revenue (21% of state forestry tax impact). Finally, Eastern Shore forestry contributed nearly \$856 million to the state economy (24.7% of state forestry impact), supported 3,525 jobs (23.1% of state forestry job impact), and added nearly \$30.6 million in combined state and local tax revenue (23% of state forestry tax impact).

Table 8. IMPLAN and NAICS Industries in Forestry Sector

<b>Forestry and Wood Derivatives</b>			
NAICS Codes	NAICS Industries	IMPLAN Code	IMPLAN Industry
113110	Timber Tract Operations	15	Forestry, forest products, and timber tract production
113210	Forest Nurseries and Gathering of Forest Products	15	
113310	Logging	16	Commercial logging
321113	Sawmills	134	Sawmills
321114	Wood Preservation	135	Wood preservation
321211	Hardwood Veneer and Plywood Manufacturing	136	Veneer and plywood manufacturing
321212	Softwood Veneer and Plywood Manufacturing	136	
321213	Engineered Wood Member (except Truss) Manufacturing	137	Engineered wood member and truss manufacturing
321214	Truss Manufacturing	137	
321219	Reconstituted Wood Product Manufacturing	138	Reconstituted wood product manufacturing
321911	Wood Window and Door Manufacturing	139	Wood windows and door manufacturing
321912	Cut Stock, Resawing Lumber, and Planing	140	Cut stock, resawing lumber, and planing
321918	Other Millwork (including Flooring)	141	Other millwork, including flooring
321920	Wood Container and Pallet Manufacturing	142	Wood container and pallet manufacturing
321992	Prefabricated Wood Building Manufacturing	144	Prefabricated wood building manufacturing
321999	All Other Miscellaneous Wood Product Manufacturing	145	All other miscellaneous wood product manufacturing
<b>Paper Industries</b>			
322110	Pulp Mills	146	Pulp mills
322121	Paper (except Newsprint) Mills	147	Paper mills
322122	Newsprint Mills	147	
322130	Paperboard Mills	148	Paperboard mills
322211	Corrugated and Solid Fiber Box Manufacturing	149	Paperboard container manufacturing
322212	Folding Paperboard Box Manufacturing	149	
322219	Other Paperboard Container Manufacturing	149	
322220	Paper Bag and Coated and Treated Paper Manufacturing	150	Paper bag and coated and treated paper manufacturing
322230	Stationery Product Manufacturing	151	Stationary product manufacturing
322291	Sanitary Paper Product Manufacturing	152	Sanitary paper product manufacturing
322299	All Other Converted Paper Product Manufacturing	153	All other converted paper product manufacturing
337110	Wood cabinet manufacturing	368	Wood kitchen cabinet and countertop manufacturing
337122	Wooden household furniture manufacturing	370	Non-upholstered wood household furniture manufacturing
337211	Wooden office furniture manufacturing	373	Wood office furniture manufacturing
337212	Architectural millwork (including flooring)	374	Custom architectural woodwork and millwork

**Table 9. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Forestry**

Geographic Entity	Sector Output			Total	% of Total
	Direct	Indirect	Induced		
<b>State of Maryland</b>	2,524,720,661	574,767,927	365,188,362	3,464,676,951	100.0%
<b>Regions</b>					
Western Maryland	913,849,382	185,569,389	126,132,059	1,225,550,830	35.4%
Appalachian Maryland	736,180,582	147,370,732	95,565,849	979,117,163	28.3%
Central Maryland	582,851,200	123,615,657	91,951,338	798,418,195	23.0%
Southern Maryland	407,297,558	105,639,473	72,191,325	585,128,356	16.9%
Eastern Shore of Maryland	620,722,521	159,943,409	74,913,640	855,579,570	24.7%
Upper Eastern Shore	36,043,142	7,624,954	5,547,857	49,215,952	1.4%
Mid Shore	382,979,353	69,635,978	33,865,768	486,481,099	14.0%
Lower Eastern Shore	201,700,026	82,682,477	35,500,015	319,882,518	9.2%
<b>Counties</b>					
Allegany	485,045,498	81,100,093	51,774,832	617,920,423	17.8%
Anne Arundel	216,404,611	60,048,925	40,686,133	317,139,669	9.2%
Baltimore	182,375,593	38,213,120	31,870,326	252,459,038	7.3%
Baltimore City	193,716,646	40,816,274	20,331,968	254,864,888	7.4%
Calvert	39,464,221	7,403,967	5,219,397	52,087,585	1.5%
Caroline	253,835,146	44,363,754	18,317,743	316,516,643	9.1%
Carroll	140,543,779	29,326,161	22,857,186	192,727,126	5.6%
Cecil	21,555,670	3,446,454	3,151,705	28,153,828	0.8%
Charles	26,964,445	11,114,601	3,852,481	41,931,527	1.2%
Dorchester	100,094,667	16,728,940	9,488,492	126,312,099	3.6%
Frederick	37,125,021	8,872,495	7,709,024	53,706,541	1.6%
Garrett	108,555,484	41,135,660	23,950,478	173,641,622	5.0%
Harford	78,800,089	14,775,858	10,540,359	104,116,306	3.0%
Howard	49,803,594	10,636,518	13,884,885	74,324,997	2.1%
Kent	2,641,704	928,510	660,756	4,230,969	0.1%
Montgomery	78,155,278	19,173,887	15,323,801	112,652,966	3.3%
Prince George's	107,205,643	23,372,214	19,244,606	149,822,463	4.3%
Queen Anne's	11,845,769	3,249,990	1,735,397	16,831,155	0.5%
St. Mary's	17,258,638	3,699,765	3,188,709	24,147,112	0.7%
Somerset	3,317,584	515,294	662,062	4,494,940	0.1%
Talbot	29,049,540	8,543,283	6,059,534	43,652,357	1.3%
Washington	142,579,599	25,134,978	19,840,540	187,555,117	5.4%
Wicomico	182,851,788	77,839,403	33,315,084	294,006,276	8.5%
Worcester	15,530,654	4,327,780	1,522,868	21,381,302	0.6%

**Table 10. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Forestry**

Geographic Entity	Sector Output			Total	% of Total
	Direct	Indirect	Induced		
<b>State of Maryland</b>	8,358	4,006	2,907	15,271	100.0%
<b>Regions</b>					
Western Maryland	2,874	1,331	1,107	5,313	34.8%
Appalachian Maryland	2,089	1,049	851	3,990	26.1%
Central Maryland	1,906	735	653	3,294	21.6%
Southern Maryland	1,778	817	543	3,139	20.6%
Eastern Shore of Maryland	1,799	1,122	604	3,525	23.1%
Upper Eastern Shore	185	65	47	297	1.9%
Mid Shore	1,061	512	285	1,858	12.2%
Lower Eastern Shore	554	545	271	1,369	9.0%
<b>Counties</b>					
Allegany	1,120	570	462	2,152	14.1%
Anne Arundel	644	381	296	1,321	8.7%
Baltimore	546	261	247	1,054	6.9%
Baltimore City	715	215	132	1,062	7.0%
Calvert	213	64	42	319	2.1%
Caroline	622	326	156	1,104	7.2%
Carroll	602	221	196	1,018	6.7%
Cecil	110	26	27	162	1.1%
Charles	191	155	31	377	2.5%
Dorchester	280	122	77	479	3.1%
Frederick	183	61	60	305	2.0%
Garrett	516	309	231	1,056	6.9%
Harford	136	102	85	323	2.1%
Howard	225	59	88	372	2.4%
Kent	23	12	6	41	0.3%
Montgomery	285	99	100	484	3.2%
Prince George's	601	162	147	911	6.0%
Queen Anne's	52	27	15	94	0.6%
St. Mary's	129	54	27	211	1.4%
Somerset	27	4	5	37	0.2%
Talbot	158	65	52	275	1.8%
Washington	453	170	159	781	5.1%
Wicomico	451	504	253	1,208	7.9%
Worcester	76	36	12	124	0.8%

**Table 11. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Forestry**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>					<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>	<b>Total (\$)</b>	
<b>State of Maryland</b>	1,466,721	38,970,256	3,065,497	89,029,859	132,532,333	100.0%
<b>Regions</b>						
Western Maryland	510,263	13,557,512	30,972,939	1,066,468	46,107,182	35%
Appalachian Maryland	383,188	10,181,178	23,259,504	800,877	34,624,747	26%
Central Maryland	316,407	8,406,812	19,205,859	661,301	28,590,378	22%
Southern Maryland	301,464	8,009,787	18,298,832	630,070	27,240,152	21%
Eastern Shore of Maryland	338,587	8,996,146	20,552,229	707,659	30,594,621	23%
Upper Eastern Shore	28,567	759,019	1,734,023	59,706	2,581,315	2%
Mid Shore	178,496	4,742,583	10,834,712	373,063	16,128,855	12%
Lower Eastern Shore	131,524	3,494,544	7,983,493	274,890	11,884,451	9%
<b>Counties</b>						
Allegany	206,715	5,492,346	12,547,591	432,042	18,678,694	14.1%
Anne Arundel	126,905	3,371,829	7,703,144	265,236	11,467,115	8.7%
Baltimore	101,207	2,689,021	6,143,229	211,525	9,144,982	6.9%
Baltimore City	101,965	2,709,175	6,189,271	213,110	9,213,522	7.0%
Calvert	30,639	814,059	1,859,766	64,036	2,768,500	2.1%
Caroline	106,051	2,817,736	6,437,284	221,650	9,582,721	7.2%
Carroll	97,800	2,598,512	5,936,454	204,405	8,837,171	6.7%
Cecil	15,583	414,026	945,868	32,568	1,408,045	1.1%
Charles	36,244	962,987	2,200,002	75,751	3,274,984	2.5%
Dorchester	45,993	1,222,022	2,791,782	96,127	4,155,925	3.1%
Frederick	29,275	777,822	1,776,981	61,185	2,645,264	2.0%
Garrett	101,420	2,694,697	6,156,194	211,972	9,164,282	6.9%
Harford	31,031	824,489	1,883,594	64,856	2,803,970	2.1%
Howard	35,743	949,683	2,169,608	74,704	3,229,739	2.4%
Kent	3,928	104,363	238,423	8,209	354,924	0.3%
Montgomery	46,461	1,234,443	2,820,157	97,104	4,198,165	3.2%
Prince George's	87,454	2,323,628	5,308,465	182,782	7,902,330	6.0%
Queen Anne's	9,057	240,629	549,732	18,928	818,346	0.6%
St. Mary's	20,222	537,283	1,227,455	42,264	1,827,223	1.4%
Somerset	3,534	93,898	214,516	7,386	319,335	0.2%
Talbot	26,452	702,825	1,605,646	55,286	2,390,209	1.8%
Washington	75,053	1,994,135	4,555,719	156,864	6,781,770	5.1%
Wicomico	116,048	3,083,343	7,044,079	242,543	10,486,012	7.9%
Worcester	11,942	317,303	724,898	24,960	1,079,104	0.8%

## Mining

The mining sector consists of coal mining iron ore mining, gold ore mining, silver ore mining, lead and zinc ore mining, copper ore mining, uranium-radium-vanadium ore mining, other metal ore mining, stone mining and quarrying, sand and gravel mining, other clay, ceramic, and refractory minerals mining, potash, soda, and borate mineral mining, phosphate rock mining, other chemical and fertilizer mineral mining, other nonmetallic minerals, metal mining services, and other nonmetallic minerals services. A complete list of the mining industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 12. These industries represent the mining commodity producers (i.e. the miners) and the immediate support industries (i.e. the support activities (except fuels) for metallic/nonmetallic/coal mining).

In 2015, the mining sector contributed nearly \$642 million to the state economy (2.76% of RBI total), supported 2,821 jobs (2.98% of RBI total), and added over \$36 million in combined state and local tax revenue (4.02% of RBI total). Breaking these total impacts down (see Table 13), the mining sector generated over \$472 million in “direct” economic output in 2015. This equals the value of all of the output of the mining sector *plus* the value of the Maryland-based supply chain needed by Maryland mining producers to produce their ores/minerals. For example, if a coal miner requires additional machinery or equipment in order to produce more ore, these supply-chain expenditures would be included in the “direct” output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if a mine needs machinery, their equipment suppliers will need to purchase more transportation and insurance services parts, fuel, etc. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as “indirect” economic output. In 2015, the activities of the mining sector were responsible for an “indirect” economic output of nearly \$90 million. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional “induced” economic effect. In 2015, the activities of the mining sector were responsible for “induced” economic output totaling over \$79 million. Summing these economic impacts, Maryland mining contributed nearly \$642 million in total state economic activity.

With respect to jobs, the “direct” economic impact of the mining sector supported 1,643 jobs in 2015 (see Table 14). The resulting ripple-effect of these activities supported 528 jobs due to “indirect” economic effects, and an additional 650 jobs due to “induced” economic effects (see the previous

paragraph for an explanation of this terminology). Summing these economic impacts, Maryland mining supported a total of 2,821 jobs.

Breaking-down the economic impact of mining by region, Western Maryland contributed over \$286 million to the state economy (44.6% of state mining impact), supported 1,184 jobs (41.9% of state mining job impact), and added over \$15 million in combined state and local tax revenue (42% of state mining tax impact). Central Maryland mining contributed over \$123 million to the state economy (19.2% of state mining impact), supported 598 jobs (21.2% of state mining job impact), and added nearly \$8 million in combined state and local tax revenue (21% of state mining tax impact). Southern Maryland mining contributed nearly \$128 million to the state economy (19.9% of state mining impact), supported 657 jobs (23.3% of state mining job impact), and added over \$8 million in combined state and local tax revenue (23% of state mining tax impact). Finally, Eastern Shore mining contributed nearly \$105 million to the state economy (16.3% of state mining impact), supported 382 jobs (13.6% of state mining job impact), and added nearly \$5 million in combined state and local tax revenue (14% of state mining tax impact).

Table 12. IMPLAN and NAICS Industries in Mining Sector

<b>Mining</b>			
NAICS Codes	NAICS Industries	IMPLAN Code	Industry
212111	Bituminous Coal and Lignite Surface Mining	22	Coal mining
212112	Bituminous Coal Underground Mining	22	
212113	Anthracite Mining	22	
212210	Iron Ore Mining	23	Iron ore mining
212221	Gold Ore Mining	24	Gold ore mining
212222	Silver Ore Mining	25	Silver ore mining
212231	Lead Ore and Zinc Ore Mining	26	Lead and zinc ore mining
212234	Copper Ore and Nickel Ore Mining	27	Copper ore mining
212291	Uranium-Radium-Vanadium Ore Mining	28	Uranium-radium-vanadium ore mining
212299	All Other Metal Ore Mining	29	Other metal ore mining
212311	Dimension Stone Mining and Quarrying	30	Stone mining and quarrying
212312	Crushed and Broken Limestone Mining and Quarrying	30	
212313	Crushed and Broken Granite Mining and Quarrying	30	
212319	Other Crushed and Broken Stone Mining and Quarrying	30	
212321	Construction Sand and Gravel Mining	31	Sand and gravel mining
212322	Industrial Sand Mining	31	
212324	Kaolin and Ball Clay Mining	31	
212325	Clay and Ceramic and Refractory Minerals Mining	32	Other clay, cerami, refractory minerals mining
212391	Potash, Soda, and Borate Mineral Mining	33	Potash, soda, and borate mineral mining
212392	Phosphate Rock Mining	34	Phosphate rock mining
212393	Other Chemical and Fertilizer Mineral Mining	35	Other chemical and fertilizer mineral mining
212399	All Other Nonmetallic Mineral Mining	36	Other nonmetallic minerals
213114	Support Activities for Metal Mining	39	Metal mining services
213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining	40	Other nonmetallic minerals services
213113	Support Activities for Coal Mining	40	

**Table 13. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Mining**

Geographic Entity	Sector Output			Total	% of Total
	Direct	Indirect	Induced		
<b>State of Maryland</b>	472,419,372	89,843,591	79,354,540	641,617,503	100.0%
<b>Regions</b>					
Western Maryland	216,164,307	36,237,136	33,900,034	286,301,477	44.6%
Appalachian Maryland	182,022,022	31,441,442	28,606,532	242,069,996	37.7%
Central Maryland	85,043,280	18,017,456	20,102,253	123,162,988	19.2%
Southern Maryland	85,725,794	25,662,333	16,262,446	127,650,573	19.9%
Eastern Shore of Maryland	85,485,991	9,926,666	9,089,808	104,502,465	16.3%
Upper Eastern Shore	46,601,133	3,611,528	4,892,823	55,105,484	8.6%
Mid Shore	30,529,490	3,891,461	3,001,959	37,422,911	5.8%
Lower Eastern Shore	8,355,367	2,423,677	1,195,025	11,974,069	1.9%
<b>Counties</b>					
Allegany	49,105,684	10,076,944	6,306,661	65,489,289	10.2%
Anne Arundel	30,827,018	8,392,551	9,603,338	48,822,907	7.6%
Baltimore	33,261,299	5,906,931	7,255,221	46,423,451	7.2%
Baltimore City	5,820,205	273,646	3,197,396	9,291,247	1.4%
Calvert	3,366,143	568,753	359,661	4,294,557	0.7%
Caroline	2,549,662	273,995	241,781	3,065,438	0.5%
Carroll	311,507	90,443	48,403	450,353	0.1%
Cecil	44,676,835	3,294,713	4,646,163	52,617,711	8.2%
Charles	8,627,689	3,407,018	1,037,291	13,071,998	2.0%
Dorchester	24,430,651	2,945,092	2,217,781	29,593,523	4.6%
Frederick	33,830,778	4,705,252	5,245,098	43,781,128	6.8%
Garrett	125,390,576	20,670,865	21,338,612	167,400,053	26.1%
Harford	9,933,819	1,394,525	1,609,735	12,938,079	2.0%
Howard	12,398,583	3,869,301	2,354,057	18,621,941	2.9%
Kent	1,642,012	258,066	193,924	2,094,002	0.3%
Montgomery	23,629,373	6,573,053	5,685,844	35,888,270	5.6%
Prince George's	40,493,557	12,887,725	5,001,124	58,382,406	9.1%
Queen Anne's	282,286	58,749	52,736	393,771	0.1%
St. Mary's	2,411,386	406,286	261,033	3,078,705	0.5%
Somerset	571,167	160,478	46,792	778,436	0.1%
Talbot	3,549,178	672,375	542,397	4,763,949	0.7%
Washington	7,525,763	693,633	961,259	9,180,655	1.4%
Wicomico	5,868,007	1,973,969	940,063	8,782,039	1.4%
Worcester	1,916,193	289,231	208,170	2,413,594	0.4%

**Table 14. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Mining**

Geographic Entity	Sector Employment (Jobs)				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	1,643	528	650	2,821	100.0%
<b>Regions</b>					
Western Maryland	632	241	311	1,184	41.9%
Appalachian Maryland	574	213	269	1,057	37.4%
Central Maryland	358	98	143	598	21.2%
Southern Maryland	405	131	122	657	23.3%
Eastern Shore of Maryland	249	58	75	382	13.6%
Upper Eastern Shore	116	24	41	181	6.4%
Mid Shore	89	21	25	135	4.8%
Lower Eastern Shore	44	13	9	66	2.4%
<b>Counties</b>					
Allegany	157	65	56	279	9.9%
Anne Arundel	122	42	70	234	8.3%
Baltimore	134	36	56	227	8.0%
Baltimore City	5	1	21	27	1.0%
Calvert	11	3	3	17	0.6%
Caroline	7	2	2	11	0.4%
Carroll	2	1	0	3	0.1%
Cecil	108	22	39	168	6.0%
Charles	61	21	8	90	3.2%
Dorchester	70	15	18	104	3.7%
Frederick	56	27	41	124	4.4%
Garrett	396	144	205	745	26.4%
Harford	36	9	13	58	2.1%
Howard	71	19	15	105	3.7%
Kent	7	2	2	10	0.4%
Montgomery	111	32	37	181	6.4%
Prince George's	203	63	38	304	10.8%
Queen Anne's	1	0	0	2	0.1%
St. Mary's	8	2	2	13	0.4%
Somerset	4	1	0	6	0.2%
Talbot	12	4	5	20	0.7%
Washington	21	4	8	33	1.2%
Wicomico	32	10	7	49	1.7%
Worcester	8	2	2	11	0.4%

**Table 15. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Mining**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>					<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>	<b>Total (\$)</b>	
<b>State of Maryland</b>	260,354	7,498,491	26,775,334	1,686,816	36,220,995	100.0%
<b>Regions</b>						
Western Maryland	109,214	3,145,498	11,231,827	707,593	15,194,132	42%
Appalachian Maryland	97,502	2,808,159	10,027,271	631,707	13,564,638	37%
Central Maryland	55,206	1,590,005	5,677,531	357,678	7,680,421	21%
Southern Maryland	60,639	1,746,473	6,236,241	392,876	8,436,230	23%
Eastern Shore of Maryland	35,294	1,016,515	3,629,734	228,669	4,910,212	14%
Upper Eastern Shore	16,696	480,872	1,717,081	108,174	2,322,824	6%
Mid Shore	12,470	359,138	1,282,397	80,790	1,734,795	5%
Lower Eastern Shore	6,128	176,504	630,256	39,705	852,594	2%
<b>Counties</b>						
Allegany	25,726	740,927	2,645,674	166,675	3,579,001	9.9%
Anne Arundel	21,550	620,659	2,216,228	139,620	2,998,057	8.3%
Baltimore	20,904	602,057	2,149,802	135,435	2,908,198	8.0%
Baltimore City	2,498	71,934	256,859	16,182	347,473	1.0%
Calvert	1,558	44,863	160,194	10,092	216,706	0.6%
Caroline	1,022	29,435	105,105	6,621	142,183	0.4%
Carroll	293	8,446	30,160	1,900	40,800	0.1%
Cecil	15,545	447,706	1,598,652	100,713	2,162,616	6.0%
Charles	8,313	239,418	854,906	53,858	1,156,496	3.2%
Dorchester	9,562	275,409	983,419	61,954	1,330,344	3.7%
Frederick	11,419	328,892	1,174,397	73,986	1,588,694	4.4%
Garrett	68,744	1,979,894	7,069,734	445,385	9,563,757	26.4%
Harford	5,395	155,392	554,867	34,956	750,610	2.1%
Howard	9,728	280,190	1,000,491	63,030	1,353,438	3.7%
Kent	950	27,366	97,718	6,156	132,191	0.4%
Montgomery	16,681	480,433	1,715,512	108,075	2,320,701	6.4%
Prince George's	28,060	808,164	2,885,763	181,800	3,903,787	10.8%
Queen Anne's	201	5,800	20,710	1,305	28,016	0.1%
St. Mary's	1,159	33,368	119,151	7,506	161,184	0.4%
Somerset	543	15,645	55,866	3,519	75,574	0.2%
Talbot	1,885	54,295	193,874	12,214	262,268	0.7%
Washington	3,032	87,338	311,863	19,647	421,880	1.2%
Wicomico	4,538	130,694	466,678	29,400	631,310	1.7%
Worcester	1,047	30,165	107,712	6,786	145,710	0.4%

## Natural Gas

The natural gas sector consists of natural gas distribution, extraction of natural gas and crude petroleum, extraction of natural gas liquids, drilling oil and gas wells, support activities for oil and gas operations, petroleum refineries, other basic organic chemical manufacturing, petroleum lubricating oil and grease manufacturing, and all other petroleum and coal products manufacturing. A complete list of the natural gas industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 16. These industries represent the natural gas commodity producers (i.e. natural gas liquid extraction companies) and the immediate “downstream” processors, refineries, and manufacturers (e.g. organic chemical manufacturers).

In 2015, the natural gas sector contributed over \$3 billion to the state economy (12.92% of RBI total), supported 8,095 jobs (8.56% of RBI total), and added over \$113 million in combined state and local tax revenue (12.54% of RBI total). Breaking these total impacts down (see Table 17), the natural gas sector generated nearly \$2.5 billion in “direct” economic output in 2015. This equals the value of all of the output of the natural gas sector *plus* the value of the Maryland-based supply chain needed by Maryland Natural Gas producers to produce fuel. For example, if more natural gas wells are drilled to increase extraction in Maryland, drillers will require more drilling-related inputs from their Maryland-based vendors (e.g. drill pipe). These supply-chain expenditures would be included in the “direct” output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if the drill pipe supplier needs to produce extra pipe, they will need to purchase more steel, and engineering, milling, and transportation services. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as “indirect” economic output. In 2015, the activities of the natural gas sector were responsible for an “indirect” economic output of just over \$344 million. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional “induced” economic effect. In 2015, the activities of the natural gas sector were responsible for “induced” economic output totaling nearly \$182 million. Summing these economic impacts, the Maryland natural gas sector contributed over \$3.0 billion in total state economic activity.

With respect to jobs, the “direct” economic impact of the natural gas sector supported 4,251 jobs in 2015 (see Table 18). The resulting ripple-effect of these activities supported 2,482 jobs due to “indirect” economic effects, and an additional 1,363 jobs due to “induced” economic effects (see the

previous paragraph for an explanation of this terminology). Summing these economic impacts, Maryland natural gas supported a total of 8,095 jobs.

Breaking-down the economic impact of natural gas production by region, Western Maryland contributed over \$474 million to the state economy (15.8% of state natural gas impact), supported 1,895 jobs (23.4% of state natural gas job impact), and added over \$26 million in combined state and local tax revenue (23% of state natural gas tax impact). Central Maryland natural gas production contributed nearly \$740 million to the state economy (24.6% of state natural gas impact), supported 1,527 jobs (18.9% of state natural gas job impact), and added over \$21 million in combined state and local tax revenue (19% of state natural gas tax impact). Southern Maryland natural gas production contributed nearly \$1.4 billion to the state economy (46.2% of state natural gas impact), supported 3,550 jobs (43.9% of state natural gas job impact), and added nearly \$50 million in combined state and local tax revenue (44% of state natural gas tax impact). Finally, Eastern Shore natural gas production contributed nearly \$404 million to the state economy (13.4% of state natural gas impact), supported 1,123 jobs (13.9% of state natural gas job impact), and added nearly \$16 million in combined state and local tax revenue (14% of state natural gas tax impact).

Table 16. IMPLAN and NACIS Industries in Natural Gas Sector

<b>Natural Gas</b>			
NAICS	NAICS	IMPLAN	
Codes	Industries	Code	Industry
221210	Natural Gas Distribution	50	Natural gas distribution
211111	Crude Petroleum and Natural Gas Extraction	20	Extraction of natural gas and crude petroleum
211112	Natural Gas Liquid Extraction	21	Extraction of natural gas liquids
213111	Drilling Oil and Gas Wells	37	Drilling oil and gas wells
213112	Support Activities for Oil and Gas Operations	38	Support activities for oil and gas operations
324110	Petroleum Refineries	156	Petroleum refineries
325193	Ethyl Alcohol Manufacturing	165	Other basic organic chemical manufacturing
324191	Petroleum Lubricating Oil and Grease Manufacturing	159	Petroleum lubricating oil and grease manufacturing
324199	All Other Petroleum and Coal Products Manufacturing	160	All Other petroleum and coal products manufacturing
325199	All Other Basic Organic Chemical Manufacturing	160	

**Table 17. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Natural Gas**

Geographic Entity	Sector Output				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	2,480,150,666	344,133,844	181,975,263	3,006,259,773	100.0%
<b>Regions</b>					
Western Maryland	360,221,323	82,408,175	31,757,667	474,387,165	15.8%
Appalachian Maryland	303,532,783	72,231,915	27,195,572	402,960,270	13.4%
Central Maryland	618,131,782	70,952,501	50,766,748	739,851,031	24.6%
Southern Maryland	1,163,774,593	148,574,156	76,062,492	1,388,411,240	46.2%
Eastern Shore of Maryland	338,022,968	42,199,012	23,388,357	403,610,336	13.4%
Upper Eastern Shore	130,604,692	18,124,795	5,628,029	154,357,517	5.1%
Mid Shore	94,544,570	6,429,171	4,814,957	105,788,698	3.5%
Lower Eastern Shore	112,873,706	17,645,046	12,945,370	143,464,122	4.8%
<b>Counties</b>					
Allegany	2,764,021	346,356	195,431	3,305,808	0.1%
Anne Arundel	344,168,583	50,064,135	33,234,758	427,467,476	14.2%
Baltimore	148,851,753	20,014,048	12,769,846	181,635,647	6.0%
Baltimore City	101,981,460	8,682,300	6,858,556	117,522,315	3.9%
Calvert	4,752,309	195,590	37,094	4,984,994	0.2%
Caroline	0	0	0	0	0.0%
Carroll	34,439,742	6,774,392	2,097,642	43,311,776	1.4%
Cecil	17,336,339	1,897,317	965,477	20,199,133	0.7%
Charles	35,584,770	3,295,439	628,613	39,508,822	1.3%
Dorchester	90,755,988	5,560,354	3,832,007	100,148,349	3.3%
Frederick	22,248,797	3,401,868	2,464,452	28,115,118	0.9%
Garrett	3,073,179	951,932	944,365	4,969,476	0.2%
Harford	2,348,036	335,243	601,692	3,284,971	0.1%
Howard	99,472,526	15,949,577	5,946,558	121,368,661	4.0%
Kent	110,646,610	15,521,123	4,434,533	130,602,266	4.3%
Montgomery	265,478,007	25,971,334	24,590,096	316,039,437	10.5%
Prince George's	754,582,180	94,104,843	41,781,958	890,468,981	29.6%
Queen Anne's	2,621,743	706,356	228,019	3,556,118	0.1%
St. Mary's	24,686,750	914,148	380,069	25,980,968	0.9%
Somerset	0	0	0	0	0.0%
Talbot	3,788,582	868,817	982,950	5,640,348	0.2%
Washington	297,695,584	70,933,627	26,055,775	394,684,986	13.1%
Wicomico	98,429,217	13,736,309	11,474,031	123,639,557	4.1%
Worcester	14,444,488	3,908,737	1,471,339	19,824,565	0.7%

**Table 18. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Natural Gas**

Geographic Entity	Sector Employment (Jobs)				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	4,251	2,482	1,363	8,095	100.0%
<b>Regions</b>					
Western Maryland	1,105	533	256	1,895	23.4%
Appalachian Maryland	951	431	219	1,601	19.8%
Central Maryland	743	436	348	1,527	18.9%
Southern Maryland	1,818	1,163	570	3,550	43.9%
Eastern Shore of Maryland	585	349	189	1,123	13.9%
Upper Eastern Shore	121	151	50	323	4.0%
Mid Shore	150	47	40	236	2.9%
Lower Eastern Shore	314	151	99	564	7.0%
<b>Counties</b>					
Allegany	16	3	2	21	0.3%
Anne Arundel	670	363	242	1,275	15.7%
Baltimore	252	156	99	507	6.3%
Baltimore City	86	46	45	177	2.2%
Calvert	1	1	0	3	0.0%
Caroline	0	0	0	0	0.0%
Carroll	117	73	18	208	2.6%
Cecil	21	16	8	44	0.5%
Charles	95	28	5	128	1.6%
Dorchester	115	40	31	186	2.3%
Frederick	37	29	19	85	1.1%
Garrett	13	6	9	28	0.3%
Harford	18	2	5	25	0.3%
Howard	102	86	38	225	2.8%
Kent	69	128	40	237	2.9%
Montgomery	285	146	161	592	7.3%
Prince George's	1,046	766	319	2,130	26.3%
Queen Anne's	32	7	2	41	0.5%
St. Mary's	6	6	3	15	0.2%
Somerset	0	0	0	0	0.0%
Talbot	35	7	8	51	0.6%
Washington	922	423	208	1,553	19.2%
Wicomico	130	111	87	328	4.1%
Worcester	184	40	12	236	2.9%

**Table 19. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Natural Gas**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>				<b>Total (\$)</b>	<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>		
<b>State of Maryland</b>	604,766	18,750,391	91,492,703	2,225,225	113,073,085	100.0%
<b>Regions</b>						
Western Maryland	141,537	4,388,267	21,412,589	520,783	26,463,177	23%
Appalachian Maryland	119,609	3,708,389	18,095,119	440,098	22,363,214	20%
Central Maryland	114,061	3,536,404	17,255,915	419,687	21,326,068	19%
Southern Maryland	265,249	8,223,864	40,128,420	975,977	49,593,510	44%
Eastern Shore of Maryland	83,919	2,601,856	12,695,778	308,778	15,690,331	14%
Upper Eastern Shore	24,093	747,000	3,644,991	88,651	4,504,735	4%
Mid Shore	17,667	547,762	2,672,808	65,006	3,303,243	3%
Lower Eastern Shore	42,158	1,307,094	6,377,979	155,121	7,882,353	7%
<b>Counties</b>						
Allegany	1,536	47,624	232,383	5,652	287,196	0.3%
Anne Arundel	95,241	2,952,901	14,408,710	350,439	17,807,292	15.7%
Baltimore	37,907	1,175,288	5,734,830	139,479	7,087,504	6.3%
Baltimore City	13,224	410,002	2,000,609	48,657	2,472,493	2.2%
Calvert	211	6,534	31,883	775	39,404	0.0%
Caroline	0	0	0	0	0	0.0%
Carroll	15,542	481,878	2,351,326	57,187	2,905,934	2.6%
Cecil	3,310	102,636	500,815	12,181	618,943	0.5%
Charles	9,534	295,611	1,442,435	35,082	1,782,662	1.6%
Dorchester	13,876	430,206	2,099,192	51,055	2,594,328	2.3%
Frederick	6,386	198,000	966,144	23,498	1,194,029	1.1%
Garrett	2,064	64,004	312,309	7,596	385,973	0.3%
Harford	1,861	57,714	281,617	6,849	348,042	0.3%
Howard	16,830	521,815	2,546,202	61,927	3,146,774	2.8%
Kent	17,711	549,122	2,679,446	65,168	3,311,447	2.9%
Montgomery	44,238	1,371,584	6,692,657	162,774	8,271,254	7.3%
Prince George's	159,149	4,934,328	24,077,098	585,587	29,756,162	26.3%
Queen Anne's	3,072	95,241	464,729	11,303	574,345	0.5%
St. Mary's	1,112	34,490	168,294	4,093	207,989	0.2%
Somerset	0	0	0	0	0	0.0%
Talbot	3,792	117,556	573,616	13,951	708,914	0.6%
Washington	116,008	3,596,761	17,550,426	426,850	21,690,045	19.2%
Wicomico	24,518	760,162	3,709,217	90,213	4,584,110	4.1%
Worcester	17,640	546,933	2,668,762	64,908	3,298,243	2.9%

## Seafood and Aquaculture

The Seafood and Aquaculture sector consists of commercial fishing and seafood product preparation and packaging. A complete list of the Seafood and Aquaculture industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 20. These industries represent the Seafood and Aquaculture commodity producers (i.e. fisherman) and the immediate “downstream” processors, refineries, and manufacturers (e.g. marine fuel suppliers).

In 2015, the Seafood and Aquaculture sector contributed nearly \$355 million to the state economy (1.52% of RBI total), supported 3,341 jobs (3.5% of RBI total), and added nearly \$15 million in combined state and local tax revenue (1.65% of RBI total). Breaking these total impacts down (see Table 21), the Seafood and Aquaculture sector generated nearly \$271 million in “direct” economic output in 2015. This equals the value of all of the output of the Seafood and Aquaculture sector *plus* the value of the Maryland-based supply chain needed by Maryland Seafood and Aquaculture producers to produce fish. For example, if a fisherman needed to increase the amount of time spent on the water, this will require more fuel or a new engine from their supplier. These supply-chain expenditures would be included in the “direct” output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if the engine supplier needs to produce a more engines, they will need to purchase more iron and engineering and transportation services. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as “indirect” economic output. In 2015, the activities of the Seafood and Aquaculture sector were responsible for an “indirect” economic output of over \$56 million. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional “induced” economic effect. In 2015, the activities of the Seafood and Aquaculture sector were responsible for “induced” economic output totaling nearly \$28 million. Summing these economic impacts, the Maryland Seafood and Aquaculture sector contributed nearly \$355 million in total state economic activity.

With respect to jobs, the “direct” economic impact of the Seafood and Aquaculture sector supported 2,697 jobs in 2015 (see Table 22). The resulting ripple-effect of these activities supported 415 jobs due to “indirect” economic effects, and an additional 229 jobs due to “induced” economic effects (see the previous paragraph for an explanation of this terminology). Summing these economic impacts, Maryland Seafood and Aquaculture supported a total of 3,341 jobs.

Breaking-down the economic impact of Seafood and Aquaculture by region, Western Maryland did not contribute. Central Maryland Seafood and Aquaculture contributed over \$11 million to the state economy (3.2% of state Seafood and Aquaculture impact), supported 103 jobs (3.1% of state Seafood and Aquaculture job impact), and added over \$456 thousand in combined state and local tax revenue (3.1% of state Seafood and Aquaculture tax impact). Southern Maryland Seafood and Aquaculture contributed nearly \$51 million to the state economy (14.3% of state Seafood and Aquaculture impact), supported 1,294 jobs (38.7% of state Seafood and Aquaculture job impact), and added over \$5.7 million in combined state and local tax revenue (38.7% of state Seafood and Aquaculture tax impact). Finally, Eastern Shore Seafood and Aquaculture contributed over \$293 million to the state economy (82.6% of state Seafood and Aquaculture impact), supported 1,944 jobs (58.2% of state Seafood and Aquaculture job impact), and added nearly \$9 million in combined state and local tax revenue (58.2% of state Seafood and Aquaculture tax impact).

Table 20. IMPLAN and NAICS Industries in Seafood and Aquaculture Sector

<b>Seafood and Aquaculture</b>			
NAICS Codes	NAICS Industries	IMPLAN Code	IMPLAN Industry
114111	Finfish Fishing	17	Commercial fishing
114112	Shellfish Fishing	17	
114119	Other Marine Fishing	17	
112511	Finfish Farming and Fish Hatcheries	14*	Animal production, except cattle and poultry and eggs
112512	Shellfish Farming	14*	
112519	Other Seafood and Aquaculture	14*	
311710	Seafood product preparation and packaging	93	Seafood product preparation and packaging

\*IMPLAN Code 14 was not included in Seafood and Aquaculture as this sector code captures many NAICS codes, most of which are more appropriately assigned under Agriculture. Therefore, IMPLAN Code 14 was included in the Agricultural impact models.

**Table 21. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Seafood and Aquaculture**

Geographic Entity	Sector Output				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	270,664,969	56,206,998	27,984,845	354,856,812	100.0%
<b>Regions</b>					
Western Maryland	0	0	0	0	0.0%
Appalachian Maryland	0	0	0	0	0.0%
Central Maryland	7,814,389	720,482	2,689,395	11,224,266	3.2%
Southern Maryland	33,871,238	12,599,229	4,107,276	50,577,743	14.3%
Eastern Shore of Maryland	228,979,342	42,887,288	21,188,174	293,054,804	82.6%
Upper Eastern Shore	35,064,183	5,715,790	4,735,310	45,515,284	12.8%
Mid Shore	102,089,387	17,051,824	7,917,385	127,058,596	35.8%
Lower Eastern Shore	91,825,772	20,119,674	8,535,479	120,480,924	34.0%
<b>Counties</b>					
Allegany	0	0	0	0	0.0%
Anne Arundel	16,112,576	7,195,481	2,024,523	25,332,580	7.1%
Baltimore	2,971,420	152,404	1,609,891	4,733,715	1.3%
Baltimore City	491,685	16,374	6,623	514,683	0.1%
Calvert	1,046,342	129,285	224,759	1,400,386	0.4%
Caroline	0	0	0	0	0.0%
Carroll	0	0	0	0	0.0%
Cecil	826,381	128,347	218,433	1,173,161	0.3%
Charles	0	0	0	0	0.0%
Dorchester	73,723,198	11,123,035	4,050,976	88,897,209	25.1%
Frederick	0	0	0	0	0.0%
Garrett	0	0	0	0	0.0%
Harford	1,457,143	25,805	693,437	2,176,385	0.6%
Howard	0	0	0	0	0.0%
Kent	6,254,823	697,893	1,826,658	8,779,374	2.5%
Montgomery	2,894,140	525,899	379,444	3,799,483	1.1%
Prince George's	0	0	0	0	0.0%
Queen Anne's	27,982,979	4,889,549	2,690,220	35,562,748	10.0%
St. Mary's	16,712,321	5,274,462	1,857,994	23,844,777	6.7%
Somerset	55,213,341	10,979,770	4,761,266	70,954,377	20.0%
Talbot	28,366,189	5,928,789	3,866,409	38,161,387	10.8%
Washington	0	0	0	0	0.0%
Wicomico	31,659,285	9,087,359	3,333,800	44,080,444	12.4%
Worcester	4,953,146	52,545	440,412	5,446,104	1.5%

**Table 22. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Seafood and Aquaculture**

Geographic Entity	Sector Employment (Jobs)				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	2,697	415	229	3,341	100.0%
<b>Regions</b>					
Western Maryland	0	0	0	0	0.0%
Appalachian Maryland	0	0	0	0	0.0%
Central Maryland	78	4	21	103	3.1%
Southern Maryland	1,186	77	32	1,294	38.7%
Eastern Shore of Maryland	1,433	334	176	1,944	58.2%
Upper Eastern Shore	100	44	42	186	5.6%
Mid Shore	571	134	66	770	23.1%
Lower Eastern Shore	762	157	68	988	29.6%
<b>Counties</b>					
Allegany	0	0	0	0	0.0%
Anne Arundel	649	41	15	704	21.1%
Baltimore	49	1	13	62	1.9%
Baltimore City	4	0	0	4	0.1%
Calvert	28	1	2	31	0.9%
Caroline	0	0	0	0	0.0%
Carroll	0	0	0	0	0.0%
Cecil	22	0	2	24	0.7%
Charles	0	0	0	0	0.0%
Dorchester	236	76	33	345	10.3%
Frederick	0	0	0	0	0.0%
Garrett	0	0	0	0	0.0%
Harford	19	0	6	25	0.7%
Howard	0	0	0	0	0.0%
Kent	22	6	17	44	1.3%
Montgomery	7	3	2	12	0.4%
Prince George's	0	0	0	0	0.0%
Queen Anne's	56	38	23	117	3.5%
St. Mary's	508	35	16	559	16.7%
Somerset	180	70	39	290	8.7%
Talbot	334	58	33	425	12.7%
Washington	0	0	0	0	0.0%
Wicomico	451	86	25	563	16.9%
Worcester	131	0	4	135	4.0%

**Table 23. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Seafood and Aquaculture**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>					<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>	<b>Total (\$)</b>	
<b>State of Maryland</b>	98,201	3,375,651	10,683,504	680,107	14,837,463	100.0%
<b>Regions</b>						
Western Maryland Appalachian Maryland	0	0	0	0	0	0.0%
Central Maryland	3,019	103,790	328,481	20,911	456,201	3.1%
Southern Maryland Eastern Shore of Maryland	38,049	1,307,920	4,139,401	263,512	5,748,882	38.7%
Upper Eastern Shore	57,133	1,963,941	6,215,622	395,684	8,632,380	58.2%
Mid Shore	5,458	187,611	593,766	37,799	824,635	5.6%
Lower Eastern Shore	22,647	778,492	2,463,828	156,846	3,421,813	23.1%
	29,028	997,837	3,158,028	201,039	4,385,932	29.6%
<b>Counties</b>						
Allegany	0	0	0	0	0	0.0%
Anne Arundel	20,702	711,625	2,252,203	143,374	3,127,904	21.1%
Baltimore	1,832	62,971	199,294	12,687	276,783	1.9%
Baltimore City	108	3,696	11,699	745	16,248	0.1%
Calvert	915	31,445	99,519	6,335	138,214	0.9%
Caroline	0	0	0	0	0	0.0%
Carroll	0	0	0	0	0	0.0%
Cecil	714	24,552	77,702	4,947	107,915	0.7%
Charles	0	0	0	0	0	0.0%
Dorchester	10,142	348,613	1,103,317	70,237	1,532,308	10.3%
Frederick	0	0	0	0	0	0.0%
Garrett	0	0	0	0	0	0.0%
Harford	735	25,262	79,952	5,090	111,038	0.7%
Howard	0	0	0	0	0	0.0%
Kent	1,296	44,545	140,979	8,975	195,794	1.3%
Montgomery	345	11,860	37,536	2,390	52,131	0.4%
Prince George's	0	0	0	0	0	0.0%
Queen Anne's	3,448	118,515	375,085	23,878	520,926	3.5%
St. Mary's	16,432	564,850	1,787,679	113,803	2,482,764	16.7%
Somerset	8,516	292,730	926,452	58,978	1,286,675	8.7%
Talbot	12,506	429,879	1,360,511	86,610	1,889,505	12.7%
Washington	0	0	0	0	0	0.0%
Wicomico	16,547	568,808	1,800,204	114,600	2,500,160	16.9%
Worcester	3,965	136,300	431,371	27,461	599,097	4.0%

## Supporting Industries

The supporting industries sector consists in-state industries that rely on Maryland's agricultural firms for their supply-chain input (e.g. a Maryland-based canned vegetable manufacturer who relies on Maryland farmers for their fresh vegetable supply). These industries include soil preparation, planting and cultivating, farm management services, support activities for animal production, animal food manufacturing, flour, rice, and wet corn milling, fluid milk, creamery better, and cheese manufacturing, animal slaughtering, breweries, wineries, and distilleries, and fertilizer manufacturing. A complete list of the support industries along with IMPLAN industry codes, and corresponding NAICS industries and codes are provided in Table 24.

In 2015, the support industries sector contributed nearly \$12.5 billion to the state economy (53.6% of RBI total), supported 41,129 jobs (43.5% of RBI total), and added over \$495 million in combined state and local tax revenue (54.9% of RBI total). Breaking these total impacts down (see Table 25), the support industries sector generated over \$9.5 billion in "direct" economic output in 2015. This equals the value of all of the output of the support industry sector *plus* the value of the Maryland-based supply chain needed by Maryland support industry producers to produce their ores/minerals. For example, if a coal miner requires additional machinery or equipment in order to produce more ore, these supply-chain expenditures would be included in the "direct" output figure. However, in order to provide these necessary inputs, supply-chain vendors in-turn need to purchase additional inputs from their supply chains. Continuing with the above example, if a mine needs machinery, their equipment suppliers will need to purchase more transportation and insurance services parts, fuel, etc. This second-order (or ripple) effect, whereby input providers themselves purchase more inputs, is known as "indirect" economic output. In 2015, the activities of the support industries sector were responsible for an "indirect" economic output of over \$1.94 billion. Finally, the above direct and indirect economic effects ignore how the employees in the affected firms/industries spend their additional income. This household spending results in an additional "induced" economic effect. In 2015, the activities of the support industries sector were responsible for "induced" economic output totaling nearly \$989.9 million. Summing these economic impacts, Maryland support industries contributed nearly \$12.5 billion in total state economic activity.

With respect to jobs, the "direct" economic impact of the support industries sector supported 23,185 jobs in 2015 (see Table 26). The resulting ripple-effect of these activities supported 10,630 jobs due to "indirect" economic effects, and an additional 7,314 jobs due to "induced" economic effects (see

the previous paragraph for an explanation of this terminology). Summing these economic impacts, Maryland support industries supported a total of 41,129 jobs.

Breaking-down the economic impact of the support industries sector by region, Western Maryland contributed over \$1.8 billion to the state economy (14.8% of state support industries impact), supported 6,071 jobs (14.8% of state support industries job impact), and added nearly \$73.1 million in combined state and local tax revenue (14.8% of state support industries tax impact). Central Maryland support industries contributed nearly \$7.4 billion to the state economy (59.2% of state support industries impact), supported 22,273 jobs (54.2% of state support industries job impact), and added nearly \$268.2 million in combined state and local tax revenue (54.2% of state support industries tax impact). Southern Maryland support industries contributed over \$932.0 million to the state economy (7.5% of state support industries impact), supported 4,720 jobs (11.5% of state support industries job impact), and added over \$56.8 million in combined state and local tax revenue (11.5% of state support industries tax impact). Finally, Eastern Shore support industries contributed over \$2.3 billion to the state economy (18.5% of state support industries impact), supported 8,065 jobs (19.6% of state support industries job impact), and added nearly \$97.1 million in combined state and local tax revenue (19.6% of state support industries tax impact).

Table 24. IMPLAN and NACIS Industries in Supporting Industry Sectors

<b>Supporting Activities</b>			
NAICS Codes	NAICS Industries	IMPLAN Code	Industry
115111	Cotton ginning	19	Support activities for agriculture and forestry
115112	Soil preparation, planting, and cultivating	19	
115113	Crop harvesting, primarily by machine	19	
115114	Postharvest crop activities (except cotton ginning)	19	
115115	Farm labor contractors and crew leaders	19	
115116	Farm management services	19	
115210	Support activities for animal production	19	Support activities for agriculture and forestry
311111	Dog and cat food manufacturing	65	Dog and cat food manufacturing
311119	Other animal food manufacturing	66	Other animal food manufacturing
311211	Flour milling	67	Flour milling
311212	Rice milling	68	Rice milling
311213	Malt manufacturing	69	Malt milling
311221	Wet corn milling	70	Wet corn milling
311224	Soybean and other oilseed processing	71	Soybean and other oilseed processing
311225	Fats and oils refining and blending	72	Fats and oils refining and blending
311230	Breakfast cereal manufacturing	73	Breakfast cereal manufacturing
311411	Frozen fruit, juice, and vegetable manufacturing	79	Frozen fruits, juices, and vegetables manufacturing
311412	Frozen specialty food manufacturing	80	Frozen specialties manufacturing
311421	Fruit and vegetable canning	81	Canned fruits and vegetables manufacturing
311422	Specialty canning	82	Canned specialties
311423	Dried and dehydrated food manufacturing	83	Dehydrated food products manufacturing
311511	Fluid milk manufacturing	84	Fluid milk manufacturing
311512	Creamery butter manufacturing	85	Creamery butter manufacturing
311513	Cheese manufacturing	86	Cheese manufacturing
311514	Dry, condensed, and evaporated dairy product manufacturing	87	Dry, condensed, and evaporated dairy product manufacturing
311520	Ice cream and frozen dessert manufacturing	88	Ice cream and frozen dessert manufacturing
311611	Animal (except poultry) slaughtering	89	Animal, except poultry, slaughtering
311612	Meat processed from carcasses	90	Meat processed from carcasses
311613	Rendering and meat byproduct processing	91	Rendering and meat byproduct processing
311615	Poultry processing	92	Poultry processing

3118	Bakeries and tortilla manufacturing		
311811	Retail bakeries	94	Bread and bakery product, except frozen, manufacturing
311812	Commercial bakeries	94	
311813	Frozen cakes, pies, and other pastries manufacturing	95	Frozen cakes and other pastries manufacturing
311821	Cookie and cracker manufacturing	96	Cookie and cracker manufacturing
311824	Dry pasta, dough, and flour mixes manufacturing from purchased flour	97	Dry pasta, mixes, and dough manufacturing
311830	Tortilla manufacturing	98	Tortilla manufacturing
311911	Roasted nuts and peanut butter manufacturing	99	Roasted nuts and peanut butter manufacturing
311919	Other snack food manufacturing	100	Other snack food manufacturing
311920	Coffee and tea manufacturing	101	Coffee and tea manufacturing
311930	Flavoring syrup and concentrate manufacturing	102	Flavoring syrup and concentrate manufacturing
311941	Mayonnaise, dressing, and other prepared sauce manufacturing	103	Mayonnaise, dressing, and sauce manufacturing
311942	Spice and extract manufacturing	104	Spice and extract manufacturing
311991	Perishable prepared food manufacturing	105	All other food manufacturing
311999	All other miscellaneous food manufacturing	105	All other food manufacturing
312120	Breweries	108	Breweries
312130	Wineries	109	Wineries
312140	Distilleries	110	Distilleries
312230	Tobacco manufacturing	111	Tobacco product manufacturing
325311	Nitrogenous fertilizer manufacturing	169	Nitrogenous fertilizer manufacturing
325312	Phosphatic fertilizer manufacturing	170	Phosphatic fertilizer manufacturing
325314	Fertilizer (mixing only) manufacturing	171	Fertilizer mixing
325320	Pesticide and other agricultural chemical manufacturing	172	Pesticide and other agricultural chemical manufacturing
333111	Farm machinery and equipment manufacturing	262	Farm machinery and equipment manufacturing

\*Wholesale trade and warehousing and storage sectors were not included in the analysis as these IMPLAN codes (395 and 416, respectively) capture many industries beyond the resource-based industries.

**Table 25. Resource Industry Economic Impacts:  
Output**

**Industry Sector: Support Industries**

Geographic Entity	Sector Output				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	9,538,695,333	1,946,424,555	989,859,817	12,474,979,706	100.0%
<b>Regions</b>					
Western Maryland	1,347,968,852	345,133,990	151,677,688	1,844,780,530	14.8%
Appalachian Maryland	277,969,613	59,609,807	29,024,883	366,604,303	2.9%
Central Maryland	5,695,189,813	1,098,265,032	593,247,816	7,386,702,661	59.2%
Southern Maryland	696,928,669	134,350,607	100,760,759	932,040,036	7.5%
Eastern Shore of Maryland	1,798,608,000	368,674,926	144,173,554	2,311,456,480	18.5%
Upper Eastern Shore	249,819,621	36,948,738	20,663,325	307,431,684	2.5%
Mid Shore	956,254,914	179,870,401	73,267,807	1,209,393,121	9.7%
Lower Eastern Shore	592,533,466	151,855,788	50,242,421	794,631,675	6.4%
<b>Counties</b>					
Allegany	84,850,311	12,463,791	6,017,575	103,331,677	0.8%
Anne Arundel	303,822,310	65,299,140	47,275,043	416,396,493	3.3%
Baltimore	1,634,586,739	253,743,057	209,258,629	2,097,588,425	16.8%
Baltimore City	1,987,994,608	335,124,651	115,687,085	2,438,806,344	19.5%
Calvert	26,154,399	3,608,761	2,319,027	32,082,187	0.3%
Caroline	89,700,092	21,269,357	6,090,270	117,059,718	0.9%
Carroll	193,532,382	46,020,312	24,725,408	264,278,103	2.1%
Cecil	78,196,221	7,257,406	9,063,921	94,517,548	0.8%
Charles	18,358,474	3,437,655	2,044,556	23,840,685	0.2%
Dorchester	742,752,180	136,671,897	52,637,308	932,061,385	7.5%
Frederick	876,466,856	239,503,870	97,927,397	1,213,898,124	9.7%
Garrett	104,998,108	35,704,366	10,667,712	151,370,186	1.2%
Harford	457,830,482	74,671,514	40,416,690	572,918,687	4.6%
Howard	1,304,355,164	358,677,644	170,084,754	1,833,117,562	14.7%
Kent	92,940,149	15,070,269	4,763,793	112,774,211	0.9%
Montgomery	310,422,819	76,048,165	57,800,658	444,271,643	3.6%
Prince George's	330,534,531	59,199,419	47,438,074	437,172,024	3.5%
Queen Anne's	78,683,250	14,621,063	6,835,612	100,139,925	0.8%
St. Mary's	18,058,955	2,805,632	1,684,060	22,548,647	0.2%
Somerset	6,134,469	802,015	918,359	7,854,843	0.1%
Talbot	123,802,642	21,929,146	14,540,230	160,272,018	1.3%
Washington	88,121,195	11,441,651	12,339,595	111,902,441	0.9%
Wicomico	449,793,850	136,086,457	42,543,184	628,423,491	5.0%
Worcester	136,605,147	14,967,316	6,780,878	158,353,341	1.3%

**Table 26. Resource Industry Economic Impacts:  
Employment**

**Industry Sector: Support Industries**

Geographic Entity	Sector Employment (Jobs)				% of Total
	Direct	Indirect	Induced	Total	
<b>State of Maryland</b>	23,185	10,630	7,314	41,129	100.0%
<b>Regions</b>					
Western Maryland	2,696	2,144	1,230	6,071	14.8%
Appalachian Maryland	766	370	255	1,391	3.4%
Central Maryland	12,488	5,627	4,159	22,273	54.2%
Southern Maryland	3,115	850	755	4,720	11.5%
Eastern Shore of Maryland	4,886	2,009	1,170	8,065	19.6%
Upper Eastern Shore	809	255	178	1,242	3.0%
Mid Shore	2,910	997	605	4,512	11.0%
Lower Eastern Shore	1,167	758	386	2,311	5.6%
<b>Counties</b>					
Allegany	203	76	54	332	0.8%
Anne Arundel	1,131	354	344	1,829	4.4%
Baltimore	3,720	1,648	1,623	6,992	17.0%
Baltimore City	3,615	1,353	751	5,719	13.9%
Calvert	143	34	19	195	0.5%
Caroline	221	145	52	418	1.0%
Carroll	694	584	212	1,490	3.6%
Cecil	411	50	76	537	1.3%
Charles	179	52	17	247	0.6%
Dorchester	2,212	721	429	3,362	8.2%
Frederick	1,236	1,190	763	3,189	7.8%
Garrett	103	223	103	428	1.0%
Harford	890	615	325	1,830	4.5%
Howard	2,618	1,633	1,081	5,332	13.0%
Kent	137	94	43	275	0.7%
Montgomery	1,644	378	378	2,400	5.8%
Prince George's	1,508	388	362	2,258	5.5%
Queen Anne's	261	111	59	431	1.0%
St. Mary's	154	22	14	191	0.5%
Somerset	103	5	8	115	0.3%
Talbot	477	131	124	732	1.8%
Washington	461	72	99	631	1.5%
Wicomico	798	655	324	1,777	4.3%
Worcester	266	98	55	419	1.0%

**Table 27. Resource Industry Economic Impacts:  
State and Local Government Tax Impact**

**Industry Sector: Support Industries**

<b>Geographic Entity</b>	<b>Sources of Tax Revenue</b>					<b>% of Total</b>
	<b>Employee Compensation</b>	<b>Household Expenditures</b>	<b>Corporations</b>	<b>Taxes on Production and Imports</b>	<b>Total (\$)</b>	
<b>State of Maryland</b>	4,119,415	106,796,276	362,637,721	21,687,101	495,240,513	100.0%
<b>Regions</b>						
Western Maryland	608,038	15,763,456	53,526,432	3,201,082	73,099,008	14.8%
Appalachian Maryland	139,365	3,613,052	12,268,490	733,702	16,754,609	3.4%
Central Maryland	2,230,866	57,835,429	196,386,137	11,744,630	268,197,062	54.2%
Southern Maryland	472,743	12,255,916	41,616,221	2,488,807	56,833,687	11.5%
Eastern Shore of Maryland	807,768	20,941,476	71,108,931	4,252,582	97,110,757	19.6%
Upper Eastern Shore	124,427	3,225,785	10,953,485	655,060	14,958,757	3.0%
Mid Shore	451,886	11,715,191	39,780,133	2,379,002	54,326,212	11.0%
Lower Eastern Shore	231,455	6,000,500	20,375,313	1,218,520	27,825,788	5.6%
<b>Counties</b>						
Allegany	33,293	863,116	2,930,800	175,273	4,002,482	0.8%
Anne Arundel	183,226	4,750,161	16,129,659	964,614	22,027,660	4.4%
Baltimore	700,283	18,154,907	61,646,852	3,686,714	84,188,756	17.0%
Baltimore City	572,825	14,850,537	50,426,524	3,015,696	68,865,582	13.9%
Calvert	19,538	506,532	1,719,981	102,861	2,348,912	0.5%
Caroline	41,870	1,085,489	3,685,891	220,430	5,033,680	1.0%
Carroll	149,275	3,869,976	13,140,900	785,875	17,946,027	3.6%
Cecil	53,751	1,393,490	4,731,737	282,976	6,461,953	1.3%
Charles	24,768	642,117	2,180,373	130,395	2,977,653	0.6%
Dorchester	336,712	8,729,300	29,641,236	1,772,657	40,479,906	8.2%
Frederick	319,398	8,280,427	28,117,041	1,681,505	38,398,372	7.8%
Garrett	42,891	1,111,957	3,775,765	225,805	5,156,418	1.0%
Harford	183,322	4,752,636	16,138,062	965,117	22,039,136	4.5%
Howard	534,040	13,845,053	47,012,297	2,811,512	64,202,903	13.0%
Kent	27,536	713,879	2,424,049	144,967	3,310,431	0.7%
Montgomery	240,396	6,232,296	21,162,402	1,265,591	28,900,685	5.8%
Prince George's	226,120	5,862,175	19,905,617	1,190,431	27,184,343	5.5%
Queen Anne's	43,140	1,118,417	3,797,699	227,117	5,186,372	1.0%
St. Mary's	19,091	494,931	1,680,591	100,506	2,295,119	0.5%
Somerset	11,550	299,444	1,016,792	60,808	1,388,593	0.3%
Talbot	73,303	1,900,401	6,453,007	385,914	8,812,626	1.8%
Washington	63,181	1,637,979	5,561,925	332,624	7,595,709	1.5%
Wicomico	177,983	4,614,222	15,668,064	937,009	21,397,278	4.3%
Worcester	41,922	1,086,834	3,690,457	220,703	5,039,917	1.0%

## Regional Summary Tables

**Table 29. Maryland  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	2,402,152,922	508,006,579	418,620,836	3,328,780,337
<b>Forestry</b>	2,524,720,661	574,767,927	365,188,362	3,464,676,951
<b>Mining</b>	472,419,372	89,843,591	79,354,540	641,617,503
<b>Natural Gas</b>	2,480,150,666	344,133,844	181,975,263	3,006,259,773
<b>Seafood and Aquaculture</b>	270,664,969	56,206,998	27,984,845	354,856,812
<b>Support Industries</b>	9,538,695,333	1,946,424,555	989,859,817	12,474,979,706
<b>(Food/Feed/Fiber Subtotal)</b>	<b>14,736,233,886</b>	<b>3,085,406,060</b>	<b>1,801,653,860</b>	<b>19,623,293,806</b>
<b>All Resource Based Industries</b>	<b>17,688,803,923</b>	<b>3,519,383,495</b>	<b>2,062,983,663</b>	<b>23,271,171,081</b>

**Table 30. Maryland  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	16,319	4,169	3,391	23,878
<b>Forestry</b>	8,358	4,006	2,907	15,271
<b>Mining</b>	1,643	528	650	2,821
<b>Natural Gas</b>	4,251	2,482	1,363	8,095
<b>Seafood and Aquaculture</b>	2,697	415	229	3,341
<b>Support Industries</b>	23,185	10,630	7,314	41,129
<b>(Food/Feed/Fiber Subtotal)</b>	<b>50,558</b>	<b>19,219</b>	<b>13,842</b>	<b>83,619</b>
<b>All Resource Based Industries</b>	<b>56,452</b>	<b>22,228</b>	<b>15,855</b>	<b>94,535</b>

**Table 31. Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	1,029,684	43,977,065	5,065,994	59,712,916	109,785,659
<b>Forestry</b>	1,466,721	38,970,256	3,065,497	89,029,859	132,532,333
<b>Mining</b>	260,354	7,498,491	26,775,334	1,686,816	36,220,995
<b>Natural Gas</b>	604,766	18,750,391	91,492,703	2,225,225	113,073,085
<b>Seafood and Aquaculture</b>	98,201	3,375,651	10,683,504	680,107	14,837,463
<b>Support Industries</b>	4,119,415	106,796,276	362,637,721	21,687,101	495,240,513
<b>(Food/Feed/Fiber Subtotal)</b>	<i>6,714,021</i>	<i>193,119,248</i>	<i>467,417,078</i>	<i>85,145,621</i>	<i>752,395,968</i>
<b>All Resource Based Industries</b>	7,579,142	219,368,124	501,721,255	175,022,024	901,690,048

**Table 32. Western Maryland  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	506,326,005	113,195,256	118,192,267	737,713,529
<b>Forestry</b>	913,849,382	185,569,389	126,132,059	1,225,550,830
<b>Mining</b>	216,164,307	36,237,136	33,900,034	286,301,477
<b>Natural Gas</b>	360,221,323	82,408,175	31,757,667	474,387,165
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	1,347,968,852	345,133,990	151,677,688	1,844,780,530
<b>(Food/Feed/Fiber Subtotal)</b>	<i>2,768,144,239</i>	<i>643,898,635</i>	<i>396,002,014</i>	<i>3,808,044,888</i>
<b>All Resource Based Industries</b>	3,344,529,869	762,543,946	461,659,715	4,568,733,530

**Table 33. Western Maryland  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	4,995	1,124	976	7,095
<b>Forestry</b>	2,874	1,331	1,107	5,313
<b>Mining</b>	632	241	311	1,184
<b>Natural Gas</b>	1,105	533	256	1,895
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	2,696	2,144	1,230	6,071
<b>(Food/Feed/Fiber Subtotal)</b>	<b>10,566</b>	<b>4,599</b>	<b>3,313</b>	<b>18,478</b>
<b>All Resource Based Industries</b>	<b>12,302</b>	<b>5,374</b>	<b>3,880</b>	<b>21,556</b>

**Table 34. Western Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	305,949	13,066,851	1,505,253	17,742,425	32,620,477
<b>Forestry</b>	510,263	13,557,512	30,972,939	1,066,468	46,107,182
<b>Mining</b>	109,214	3,145,498	11,231,827	707,593	15,194,132
<b>Natural Gas</b>	141,537	4,388,267	21,412,589	520,783	26,463,177
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	608,038	15,763,456	53,526,432	3,201,082	73,099,008
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,424,250</b>	<b>42,387,818</b>	<b>86,004,623</b>	<b>22,009,974</b>	<b>151,826,666</b>
<b>All Resource Based Industries</b>	<b>1,675,002</b>	<b>49,921,583</b>	<b>118,649,040</b>	<b>23,238,350</b>	<b>193,483,975</b>

**Table 35. Appalachian Maryland  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	191,464,610	32,456,650	58,052,106	281,973,366
<b>Forestry</b>	736,180,582	147,370,732	95,565,849	979,117,163
<b>Mining</b>	182,022,022	31,441,442	28,606,532	242,069,996
<b>Natural Gas</b>	303,532,783	72,231,915	27,195,572	402,960,270
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	277,969,613	59,609,807	29,024,883	366,604,303
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,205,614,805</b>	<b>239,437,189</b>	<b>182,642,838</b>	<b>1,627,694,832</b>
<b>All Resource Based Industries</b>	<b>1,691,169,611</b>	<b>343,110,546</b>	<b>238,444,942</b>	<b>2,272,725,099</b>

**Table 36. Appalachian Maryland  
Economic Impact-Employment**

	Sector Employment			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	2,009	316	491	2,816
<b>Forestry</b>	2,089	1,049	851	3,990
<b>Mining</b>	574	213	269	1,057
<b>Natural Gas</b>	951	431	219	1,601
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	766	370	255	1,391
<b>(Food/Feed/Fiber Subtotal)</b>	<b>4,864</b>	<b>1,736</b>	<b>1,597</b>	<b>8,197</b>
<b>All Resource Based Industries</b>	<b>6,388</b>	<b>2,380</b>	<b>2,086</b>	<b>10,855</b>

**Table 37. Appalachian Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	121,443	5,186,725	597,491	7,042,636	12,948,295
<b>Forestry</b>	383,188	10,181,178	23,259,504	800,877	34,624,747
<b>Mining</b>	97,502	2,808,159	10,027,271	631,707	13,564,638
<b>Natural Gas</b>	119,609	3,708,389	18,095,119	440,098	22,363,214
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	139,365	3,613,052	12,268,490	733,702	16,754,609
<b>(Food/Feed/Fiber Subtotal)</b>	<b>643,996</b>	<b>18,980,955</b>	<b>36,125,485</b>	<b>8,577,215</b>	<b>64,327,651</b>
<b>All Resource Based Industries</b>	<b>861,106</b>	<b>25,497,503</b>	<b>64,247,875</b>	<b>9,649,019</b>	<b>100,255,504</b>

**Table 38. Central Maryland  
Economic Impact-Output**

	Sector Output			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	219,272,553	40,937,569	51,671,770	311,881,891
<b>Forestry</b>	582,851,200	123,615,657	91,951,338	798,418,195
<b>Mining</b>	85,043,280	18,017,456	20,102,253	123,162,988
<b>Natural Gas</b>	618,131,782	70,952,501	50,766,748	739,851,031
<b>Seafood and Aquaculture</b>	7,814,389	720,482	2,689,395	11,224,266
<b>Support Industries</b>	5,695,189,813	1,098,265,032	593,247,816	7,386,702,661
<b>(Food/Feed/Fiber Subtotal)</b>	<b>6,505,127,954</b>	<b>1,263,538,740</b>	<b>739,560,320</b>	<b>8,508,227,013</b>
<b>All Resource Based Industries</b>	<b>7,208,303,016</b>	<b>1,352,508,696</b>	<b>810,429,320</b>	<b>9,371,241,033</b>

**Table 39. Central Maryland  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	2,943	350	379	3,673
<b>Forestry</b>	1,906	735	653	3,294
<b>Mining</b>	358	98	143	598
<b>Natural Gas</b>	743	436	348	1,527
<b>Seafood and Aquaculture</b>	78	4	21	103
<b>Support Industries</b>	12,488	5,627	4,159	22,273
<b>(Food/Feed/Fiber Subtotal)</b>	<b>17,415</b>	<b>6,716</b>	<b>5,212</b>	<b>29,343</b>
<b>All Resource Based Industries</b>	<b>18,516</b>	<b>7,250</b>	<b>5,702</b>	<b>31,468</b>

**Table 40. Central Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	158,367	6,763,761	779,160	9,183,967	16,885,256
<b>Forestry</b>	316,407	8,406,812	19,205,859	661,301	28,590,378
<b>Mining</b>	55,206	1,590,005	5,677,531	357,678	7,680,421
<b>Natural Gas</b>	114,061	3,536,404	17,255,915	419,687	21,326,068
<b>Seafood and Aquaculture</b>	3,019	103,790	328,481	20,911	456,201
<b>Support Industries</b>	2,230,866	57,835,429	196,386,137	11,744,630	268,197,062
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,708,659</b>	<b>73,109,791</b>	<b>216,699,637</b>	<b>21,610,809</b>	<b>314,128,896</b>
<b>All Resource Based Industries</b>	<b>2,877,927</b>	<b>78,236,200</b>	<b>239,633,084</b>	<b>22,388,174</b>	<b>343,135,385</b>

**Table 41. Southern Maryland  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	119,498,367	18,756,139	15,129,670	153,384,177
<b>Forestry</b>	407,297,558	105,639,473	72,191,325	585,128,356
<b>Mining</b>	85,725,794	25,662,333	16,262,446	127,650,573
<b>Natural Gas</b>	1,163,774,593	148,574,156	76,062,492	1,388,411,240
<b>Seafood and Aquaculture</b>	33,871,238	12,599,229	4,107,276	50,577,743
<b>Support Industries</b>	696,928,669	134,350,607	100,760,759	932,040,036
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,257,595,832</b>	<b>271,345,448</b>	<b>192,189,031</b>	<b>1,721,130,311</b>
<b>All Resource Based Industries</b>	<b>2,507,096,219</b>	<b>445,581,937</b>	<b>284,513,968</b>	<b>3,237,192,124</b>

**Table 42. Southern Maryland  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	2,140	320	112	2,572
<b>Forestry</b>	1,778	817	543	3,139
<b>Mining</b>	405	131	122	657
<b>Natural Gas</b>	1,818	1,163	570	3,550
<b>Seafood and Aquaculture</b>	1,186	77	32	1,294
<b>Support Industries</b>	3,115	850	755	4,720
<b>(Food/Feed/Fiber Subtotal)</b>	<b>8,218</b>	<b>2,064</b>	<b>1,443</b>	<b>11,725</b>
<b>All Resource Based Industries</b>	<b>10,441</b>	<b>3,358</b>	<b>2,134</b>	<b>15,933</b>

**Table 43. Southern Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	110,921	4,737,357	545,726	6,432,476	11,826,480
<b>Forestry</b>	301,464	8,009,787	18,298,832	630,070	27,240,152
<b>Mining</b>	60,639	1,746,473	6,236,241	392,876	8,436,230
<b>Natural Gas</b>	265,249	8,223,864	40,128,420	975,977	49,593,510
<b>Seafood and Aquaculture</b>	38,049	1,307,920	4,139,401	263,512	5,748,882
<b>Support Industries</b>	472,743	12,255,916	41,616,221	2,488,807	56,833,687
<b>(Food/Feed/Fiber Subtotal)</b>	<i>923,177</i>	<i>26,310,980</i>	<i>64,600,180</i>	<i>9,814,865</i>	<i>101,649,201</i>
<b>All Resource Based Industries</b>	1,249,064	36,281,317	110,964,841	11,183,718	159,678,940

**Table 44. Eastern Shore of Maryland  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	1,557,055,997	335,117,614	233,627,128	2,125,800,740
<b>Forestry</b>	620,722,521	159,943,409	74,913,640	855,579,570
<b>Mining</b>	85,485,991	9,926,666	9,089,808	104,502,465
<b>Natural Gas</b>	338,022,968	42,199,012	23,388,357	403,610,336
<b>Seafood and Aquaculture</b>	228,979,342	42,887,288	21,188,174	293,054,804
<b>Support Industries</b>	1,798,608,000	368,674,926	144,173,554	2,311,456,480
<b>(Food/Feed/Fiber Subtotal)</b>	<i>4,205,365,860</i>	<i>906,623,237</i>	<i>473,902,496</i>	<i>5,585,891,593</i>
<b>All Resource Based Industries</b>	4,628,874,819	958,748,915	506,380,660	6,094,004,394

**Table 45. Eastern Shore of Maryland  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	6,241	2,374	1,924	10,539
<b>Forestry</b>	1,799	1,122	604	3,525
<b>Mining</b>	249	58	75	382
<b>Natural Gas</b>	585	349	189	1,123
<b>Seafood and Aquaculture</b>	1,433	334	176	1,944
<b>Support Industries</b>	4,886	2,009	1,170	8,065
<b>(Food/Feed/Fiber Subtotal)</b>	<b>14,359</b>	<b>5,840</b>	<b>3,873</b>	<b>24,072</b>
<b>All Resource Based Industries</b>	<b>15,194</b>	<b>6,247</b>	<b>4,138</b>	<b>25,578</b>

**Table 46. Eastern Shore of Maryland  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	454,447	19,409,096	2,235,856	26,354,049	48,453,447
<b>Forestry</b>	338,587	8,996,146	20,552,229	707,659	30,594,621
<b>Mining</b>	35,294	1,016,515	3,629,734	228,669	4,910,212
<b>Natural Gas</b>	83,919	2,601,856	12,695,778	308,778	15,690,331
<b>Seafood and Aquaculture</b>	57,133	1,963,941	6,215,622	395,684	8,632,380
<b>Support Industries</b>	807,768	20,941,476	71,108,931	4,252,582	97,110,757
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,657,935</b>	<b>51,310,659</b>	<b>100,112,637</b>	<b>31,709,973</b>	<b>184,791,204</b>
<b>All Resource Based Industries</b>	<b>1,777,149</b>	<b>54,929,029</b>	<b>116,438,149</b>	<b>32,247,421</b>	<b>205,391,748</b>

**Table 47. Upper Eastern Shore  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	334,162,418	65,746,880	57,491,764	457,401,062
<b>Forestry</b>	36,043,142	7,624,954	5,547,857	49,215,952
<b>Mining</b>	46,601,133	3,611,528	4,892,823	55,105,484
<b>Natural Gas</b>	130,604,692	18,124,795	5,628,029	154,357,517
<b>Seafood and Aquaculture</b>	35,064,183	5,715,790	4,735,310	45,515,284
<b>Support Industries</b>	249,819,621	36,948,738	20,663,325	307,431,684
<b>(Food/Feed/Fiber Subtotal)</b>	<i>655,089,364</i>	<i>116,036,361</i>	<i>88,438,257</i>	<i>859,563,981</i>
<b>All Resource Based Industries</b>	832,295,189	137,772,684	98,959,109	1,069,026,983

**Table 48. Upper Eastern Shore  
Economic Impact-Employment**

	Sector Employment			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	2,415	670	499	3,584
<b>Forestry</b>	185	65	47	297
<b>Mining</b>	116	24	41	181
<b>Natural Gas</b>	121	151	50	323
<b>Seafood and Aquaculture</b>	100	44	42	186
<b>Support Industries</b>	809	255	178	1,242
<b>(Food/Feed/Fiber Subtotal)</b>	809	255	178	1,242
<b>All Resource Based Industries</b>	3,747	1,208	857	5,813

**Table 49. Upper Eastern Shore  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	154,535	6,600,071	760,304	8,961,705	16,476,615
<b>Forestry</b>	28,567	759,019	1,734,023	59,706	2,581,315
<b>Mining</b>	16,696	480,872	1,717,081	108,174	2,322,824
<b>Natural Gas</b>	24,093	747,000	3,644,991	88,651	4,504,735
<b>Seafood and Aquaculture</b>	5,458	187,611	593,766	37,799	824,635
<b>Support Industries</b>	124,427	3,225,785	10,953,485	655,060	14,958,757
<b>(Food/Feed/Fiber Subtotal)</b>	<b>312,987</b>	<b>10,772,486</b>	<b>14,041,578</b>	<b>9,714,270</b>	<b>34,841,321</b>
<b>All Resource Based Industries</b>	<b>353,776</b>	<b>12,000,358</b>	<b>19,403,650</b>	<b>9,911,095</b>	<b>41,668,880</b>

**Table 50. Mid Shore  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	494,522,229	99,563,067	69,470,853	663,556,149
<b>Forestry</b>	382,979,353	69,635,978	33,865,768	486,481,099
<b>Mining</b>	30,529,490	3,891,461	3,001,959	37,422,911
<b>Natural Gas</b>	94,544,570	6,429,171	4,814,957	105,788,698
<b>Seafood and Aquaculture</b>	102,089,387	17,051,824	7,917,385	127,058,596
<b>Support Industries</b>	956,254,914	179,870,401	73,267,807	1,209,393,121
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,935,845,882</b>	<b>366,121,270</b>	<b>184,521,813</b>	<b>2,486,488,965</b>
<b>All Resource Based Industries</b>	<b>2,060,919,942</b>	<b>376,441,902</b>	<b>192,338,730</b>	<b>2,629,700,573</b>

**Table 51. Mid Shore  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	1,963	689	586	3,238
<b>Forestry</b>	1,061	512	285	1,858
<b>Mining</b>	89	21	25	135
<b>Natural Gas</b>	150	47	40	236
<b>Seafood and Aquaculture</b>	571	134	66	770
<b>Support Industries</b>	2,910	997	605	4,512
<b>(Food/Feed/Fiber Subtotal)</b>	<i>6,504</i>	<i>2,331</i>	<i>1,543</i>	<i>10,378</i>
<b>All Resource Based Industries</b>	6,744	2,399	1,607	10,750

**Table 52. Mid Shore  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	139,612	5,962,712	686,882	8,096,287	14,885,493
<b>Forestry</b>	178,496	4,742,583	10,834,712	373,063	16,128,855
<b>Mining</b>	12,470	359,138	1,282,397	80,790	1,734,795
<b>Natural Gas</b>	17,667	547,762	2,672,808	65,006	3,303,243
<b>Seafood and Aquaculture</b>	22,647	778,492	2,463,828	156,846	3,421,813
<b>Support Industries</b>	451,886	11,715,191	39,780,133	2,379,002	54,326,212
<b>(Food/Feed/Fiber Subtotal)</b>	<i>792,641</i>	<i>23,198,978</i>	<i>53,765,556</i>	<i>11,005,198</i>	<i>88,762,373</i>
<b>All Resource Based Industries</b>	822,778	24,105,878	57,720,761	11,150,994	93,800,411

**Table 53. Lower Eastern Shore  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	728,371,351	169,807,667	106,664,511	1,004,843,529
<b>Forestry</b>	201,700,026	82,682,477	35,500,015	319,882,518
<b>Mining</b>	8,355,367	2,423,677	1,195,025	11,974,069
<b>Natural Gas</b>	112,873,706	17,645,046	12,945,370	143,464,122
<b>Seafood and Aquaculture</b>	91,825,772	20,119,674	8,535,479	120,480,924
<b>Support Industries</b>	592,533,466	151,855,788	50,242,421	794,631,675
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,614,430,615</b>	<b>424,465,607</b>	<b>200,942,425</b>	<b>2,239,838,647</b>
<b>All Resource Based Industries</b>	<b>1,735,659,688</b>	<b>444,534,329</b>	<b>215,082,821</b>	<b>2,395,276,838</b>

**Table 54. Lower Eastern Shore  
Economic Impact-Employment**

	Sector Employment			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	1,862	1,016	839	3,717
<b>Forestry</b>	554	545	271	1,369
<b>Mining</b>	44	13	9	66
<b>Natural Gas</b>	314	151	99	564
<b>Seafood and Aquaculture</b>	762	157	68	988
<b>Support Industries</b>	1,167	758	386	2,311
<b>(Food/Feed/Fiber Subtotal)</b>	<b>4,345</b>	<b>2,475</b>	<b>1,565</b>	<b>8,385</b>
<b>All Resource Based Industries</b>	<b>4,703</b>	<b>2,640</b>	<b>1,673</b>	<b>9,016</b>

**Table 55. Lower Eastern Shore  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	160,300	6,846,313	788,670	9,296,057	17,091,339
<b>Forestry</b>	131,524	3,494,544	7,983,493	274,890	11,884,451
<b>Mining</b>	6,128	176,504	630,256	39,705	852,594
<b>Natural Gas</b>	42,158	1,307,094	6,377,979	155,121	7,882,353
<b>Seafood and Aquaculture</b>	29,028	997,837	3,158,028	201,039	4,385,932
<b>Support Industries</b>	231,455	6,000,500	20,375,313	1,218,520	27,825,788
<b>(Food/Feed/Fiber Subtotal)</b>	<i>552,307</i>	<i>17,339,194</i>	<i>32,305,504</i>	<i>10,990,505</i>	<i>61,187,510</i>
<b>All Resource Based Industries</b>	600,594	18,822,793	39,313,739	11,185,332	69,922,457

## County Summary Tables

**Table 56. Allegany County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	9,709,762	446,514	1,138,382	11,294,657
<b>Forestry</b>	485,045,498	81,100,093	51,774,832	617,920,423
<b>Mining</b>	49,105,684	10,076,944	6,306,661	65,489,289
<b>Natural Gas</b>	2,764,021	346,356	195,431	3,305,808
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	84,850,311	12,463,791	6,017,575	103,331,677
<b>(Food/Feed/Fiber Subtotal)</b>	579,605,571	94,010,398	58,930,789	732,546,758
<b>All Resource Based Industries</b>	631,475,275	104,433,698	65,432,881	801,341,854

**Table 57. Allegany County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	257	7	10	274
<b>Forestry</b>	1,120	570	462	2,152
<b>Mining</b>	157	65	56	279
<b>Natural Gas</b>	16	3	2	21
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	203	76	54	332
<b>(Food/Feed/Fiber Subtotal)</b>	1,579	653	526	2,758
<b>All Resource Based Industries</b>	1,752	721	584	3,058

**Table 58. Allegany County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	11,805	504,167	58,078	684,568	1,258,618
<b>Forestry</b>	206,715	5,492,346	12,547,591	432,042	18,678,694
<b>Mining</b>	25,726	740,927	2,645,674	166,675	3,579,001
<b>Natural Gas</b>	1,536	47,624	232,383	5,652	287,196
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	33,293	863,116	2,930,800	175,273	4,002,482
<b>(Food/Feed/Fiber Subtotal)</b>	<b>251,812</b>	<b>6,859,630</b>	<b>15,536,470</b>	<b>1,291,883</b>	<b>23,939,795</b>
<b>All Resource Based Industries</b>	<b>279,074</b>	<b>7,648,181</b>	<b>18,414,527</b>	<b>1,464,209</b>	<b>27,805,992</b>

**Table 59. Anne Arundel County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	20,814,044	3,452,484	10,042,471	34,308,999
<b>Forestry</b>	216,404,611	60,048,925	40,686,133	317,139,669
<b>Mining</b>	30,827,018	8,392,551	9,603,338	48,822,907
<b>Natural Gas</b>	344,168,583	50,064,135	33,234,758	427,467,476
<b>Seafood and Aquaculture</b>	16,112,576	7,195,481	2,024,523	25,332,580
<b>Support Industries</b>	303,822,310	65,299,140	47,275,043	416,396,493
<b>(Food/Feed/Fiber Subtotal)</b>	<b>557,153,541</b>	<b>135,996,031</b>	<b>100,028,169</b>	<b>793,177,741</b>
<b>All Resource Based Industries</b>	<b>932,149,142</b>	<b>194,452,716</b>	<b>142,866,266</b>	<b>1,269,468,124</b>

**Table 60. Anne Arundel County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	419	55	73	547
<b>Forestry</b>	644	381	296	1,321
<b>Mining</b>	122	42	70	234
<b>Natural Gas</b>	670	363	242	1,275
<b>Seafood and Aquaculture</b>	649	41	15	704
<b>Support Industries</b>	1,131	354	344	1,829
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,843</b>	<b>830</b>	<b>728</b>	<b>4,402</b>
<b>All Resource Based Industries</b>	<b>3,635</b>	<b>1,234</b>	<b>1,041</b>	<b>5,910</b>

**Table 61. Anne Arundel County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	23,575	1,006,887	115,990	1,367,171	2,513,623
<b>Forestry</b>	126,905	3,371,829	7,703,144	265,236	11,467,115
<b>Mining</b>	21,550	620,659	2,216,228	139,620	2,998,057
<b>Natural Gas</b>	95,241	2,952,901	14,408,710	350,439	17,807,292
<b>Seafood and Aquaculture</b>	20,702	711,625	2,252,203	143,374	3,127,904
<b>Support Industries</b>	183,226	4,750,161	16,129,659	964,614	22,027,660
<b>(Food/Feed/Fiber Subtotal)</b>	<b>354,409</b>	<b>9,840,502</b>	<b>26,200,995</b>	<b>2,740,396</b>	<b>39,136,303</b>
<b>All Resource Based Industries</b>	<b>471,200</b>	<b>13,414,063</b>	<b>42,825,933</b>	<b>3,230,455</b>	<b>59,941,651</b>

**Table 62. Baltimore County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	85,677,919	13,247,201	24,890,122	123,815,242
<b>Forestry</b>	182,375,593	38,213,120	31,870,326	252,459,038
<b>Mining</b>	33,261,299	5,906,931	7,255,221	46,423,451
<b>Natural Gas</b>	148,851,753	20,014,048	12,769,846	181,635,647
<b>Seafood and Aquaculture</b>	2,971,420	152,404	1,609,891	4,733,715
<b>Support Industries</b>	1,634,586,739	253,743,057	209,258,629	2,097,588,425
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,905,611,671</b>	<b>305,355,781</b>	<b>267,628,969</b>	<b>2,478,596,420</b>
<b>All Resource Based Industries</b>	<b>2,087,724,722</b>	<b>331,276,760</b>	<b>287,654,036</b>	<b>2,706,655,518</b>

**Table 63. Baltimore County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	980	110	194	1,283
<b>Forestry</b>	546	261	247	1,054
<b>Mining</b>	134	36	56	227
<b>Natural Gas</b>	252	156	99	507
<b>Seafood and Aquaculture</b>	49	1	13	62
<b>Support Industries</b>	3,720	1,648	1,623	6,992
<b>(Food/Feed/Fiber Subtotal)</b>	<b>5,295</b>	<b>2,020</b>	<b>2,077</b>	<b>9,391</b>
<b>All Resource Based Industries</b>	<b>5,681</b>	<b>2,212</b>	<b>2,232</b>	<b>10,125</b>

**Table 64. Baltimore County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	55,332	2,363,178	272,229	3,208,769	5,899,509
<b>Forestry</b>	101,207	2,689,021	6,143,229	211,525	9,144,982
<b>Mining</b>	20,904	602,057	2,149,802	135,435	2,908,198
<b>Natural Gas</b>	37,907	1,175,288	5,734,830	139,479	7,087,504
<b>Seafood and Aquaculture</b>	1,832	62,971	199,294	12,687	276,783
<b>Support Industries</b>	700,283	18,154,907	61,646,852	3,686,714	84,188,756
<b>(Food/Feed/Fiber Subtotal)</b>	<b>858,653</b>	<b>23,270,078</b>	<b>68,261,604</b>	<b>7,119,695</b>	<b>99,510,030</b>
<b>All Resource Based Industries</b>	<b>917,464</b>	<b>25,047,423</b>	<b>76,146,236</b>	<b>7,394,609</b>	<b>109,505,732</b>

**Table 65. Baltimore City  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	0	0	0	0
<b>Forestry</b>	193,716,646	40,816,274	20,331,968	254,864,888
<b>Mining</b>	5,820,205	273,646	3,197,396	9,291,247
<b>Natural Gas</b>	101,981,460	8,682,300	6,858,556	117,522,315
<b>Seafood and Aquaculture</b>	491,685	16,374	6,623	514,683
<b>Support Industries</b>	1,987,994,608	335,124,651	115,687,085	2,438,806,344
<b>(Food/Feed/Fiber Subtotal)</b>				
<b>All Resource Based Industries</b>	<b>2,290,004,605</b>	<b>384,913,244</b>	<b>146,081,627</b>	<b>2,820,999,476</b>

**Table 66. Baltimore City  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	0	0	0	0
<b>Forestry</b>	715	215	132	1,062
<b>Mining</b>	5	1	21	27
<b>Natural Gas</b>	86	46	45	177
<b>Seafood and Aquaculture</b>	4	0	0	4
<b>Support Industries</b>	3,615	1,353	751	5,719
<b>(Food/Feed/Fiber Subtotal)</b>	<b>4,333</b>	<b>1,568</b>	<b>884</b>	<b>6,784</b>
<b>All Resource Based Industries</b>	<b>4,424</b>	<b>1,615</b>	<b>949</b>	<b>6,989</b>

**Table 67. Baltimore City  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	0	0	0	0	0
<b>Forestry</b>	101,965	2,709,175	6,189,271	213,110	9,213,522
<b>Mining</b>	2,498	71,934	256,859	16,182	347,473
<b>Natural Gas</b>	13,224	410,002	2,000,609	48,657	2,472,493
<b>Seafood and Aquaculture</b>	108	3,696	11,699	745	16,248
<b>Support Industries</b>	572,825	14,850,537	50,426,524	3,015,696	68,865,582
<b>(Food/Feed/Fiber Subtotal)</b>	<b>674,897</b>	<b>17,563,409</b>	<b>56,627,494</b>	<b>3,229,551</b>	<b>78,095,352</b>
<b>All Resource Based Industries</b>	<b>690,619</b>	<b>18,045,345</b>	<b>58,884,963</b>	<b>3,294,391</b>	<b>80,915,318</b>

**Table 68. Calvert County  
Economic Impact-Output**

	Sector Output			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	13,396,027	2,860,744	-522,480	15,734,290
<b>Forestry</b>	39,464,221	7,403,967	5,219,397	52,087,585
<b>Mining</b>	3,366,143	568,753	359,661	4,294,557
<b>Natural Gas</b>	4,752,309	195,590	37,094	4,984,994
<b>Seafood and Aquaculture</b>	1,046,342	129,285	224,759	1,400,386
<b>Support Industries</b>	26,154,399	3,608,761	2,319,027	32,082,187
<b>(Food/Feed/Fiber Subtotal)</b>	<b>80,060,988</b>	<b>14,002,757</b>	<b>7,240,703</b>	<b>101,304,448</b>
<b>All Resource Based Industries</b>	<b>88,179,440</b>	<b>14,767,101</b>	<b>7,637,458</b>	<b>110,583,998</b>

**Table 69. Calvert County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	260	51	-4	307
<b>Forestry</b>	213	64	42	319
<b>Mining</b>	11	3	3	17
<b>Natural Gas</b>	1	1	0	3
<b>Seafood and Aquaculture</b>	28	1	2	31
<b>Support Industries</b>	143	34	19	195
<b>(Food/Feed/Fiber Subtotal)</b>	<b>644</b>	<b>150</b>	<b>59</b>	<b>852</b>
<b>All Resource Based Industries</b>	<b>656</b>	<b>154</b>	<b>62</b>	<b>871</b>

**Table 70. Calvert County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	13,222	564,685	65,050	766,740	1,409,695
<b>Forestry</b>	30,639	814,059	1,859,766	64,036	2,768,500
<b>Mining</b>	1,558	44,863	160,194	10,092	216,706
<b>Natural Gas</b>	211	6,534	31,883	775	39,404
<b>Seafood and Aquaculture</b>	915	31,445	99,519	6,335	138,214
<b>Support Industries</b>	19,538	506,532	1,719,981	102,861	2,348,912
<b>(Food/Feed/Fiber Subtotal)</b>	<b>64,313</b>	<b>1,916,720</b>	<b>3,744,315</b>	<b>939,972</b>	<b>6,665,321</b>
<b>All Resource Based Industries</b>	<b>66,082</b>	<b>1,968,117</b>	<b>3,936,392</b>	<b>950,840</b>	<b>6,921,431</b>

**Table 71. Caroline County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	277,521,467	62,441,663	31,733,847	371,696,977
<b>Forestry</b>	253,835,146	44,363,754	18,317,743	316,516,643
<b>Mining</b>	2,549,662	273,995	241,781	3,065,438
<b>Natural Gas</b>	0	0	0	0
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	89,700,092	21,269,357	6,090,270	117,059,718
<b>(Food/Feed/Fiber Subtotal)</b>	<b>621,056,705</b>	<b>128,074,774</b>	<b>56,141,860</b>	<b>805,273,339</b>
<b>All Resource Based Industries</b>	<b>623,606,366</b>	<b>128,348,769</b>	<b>56,383,641</b>	<b>808,338,777</b>

**Table 72. Caroline County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	922	347	272	1,540
<b>Forestry</b>	622	326	156	1,104
<b>Mining</b>	7	2	2	11
<b>Natural Gas</b>	0	0	0	0
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	221	145	52	418
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,765</b>	<b>818</b>	<b>480</b>	<b>3,063</b>
<b>All Resource Based Industries</b>	<b>1,773</b>	<b>819</b>	<b>482</b>	<b>3,074</b>

**Table 73. Caroline County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	66,424	2,836,936	326,804	3,852,047	7,082,211
<b>Forestry</b>	106,051	2,817,736	6,437,284	221,650	9,582,721
<b>Mining</b>	1,022	29,435	105,105	6,621	142,183
<b>Natural Gas</b>	0	0	0	0	0
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	41,870	1,085,489	3,685,891	220,430	5,033,680
<b>(Food/Feed/Fiber Subtotal)</b>	<b>214,345</b>	<b>6,740,161</b>	<b>10,449,979</b>	<b>4,294,127</b>	<b>21,698,612</b>
<b>All Resource Based Industries</b>	<b>215,367</b>	<b>6,769,596</b>	<b>10,555,084</b>	<b>4,300,748</b>	<b>21,840,795</b>

**Table 74. Carroll County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	128,863,461	36,441,789	20,705,627	186,010,876
<b>Forestry</b>	140,543,779	29,326,161	22,857,186	192,727,126
<b>Mining</b>	311,507	90,443	48,403	450,353
<b>Natural Gas</b>	34,439,742	6,774,392	2,097,642	43,311,776
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	193,532,382	46,020,312	24,725,408	264,278,103
<b>(Food/Feed/Fiber Subtotal)</b>	<b>462,939,622</b>	<b>111,788,263</b>	<b>68,288,221</b>	<b>643,016,105</b>
<b>All Resource Based Industries</b>	<b>497,690,870</b>	<b>118,653,097</b>	<b>70,434,267</b>	<b>686,778,234</b>

**Table 75. Carroll County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	1,439	442	177	2,058
<b>Forestry</b>	602	221	196	1,018
<b>Mining</b>	2	1	0	3
<b>Natural Gas</b>	117	73	18	208
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	694	584	212	1,490
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,735</b>	<b>1,247</b>	<b>585</b>	<b>4,567</b>
<b>All Resource Based Industries</b>	<b>2,854</b>	<b>1,321</b>	<b>603</b>	<b>4,778</b>

**Table 76. Carroll County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	88,756	3,790,697	436,674	5,147,082	9,463,210
<b>Forestry</b>	97,800	2,598,512	5,936,454	204,405	8,837,171
<b>Mining</b>	293	8,446	30,160	1,900	40,800
<b>Natural Gas</b>	15,542	481,878	2,351,326	57,187	2,905,934
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	149,275	3,869,976	13,140,900	785,875	17,946,027
<b>(Food/Feed/Fiber Subtotal)</b>	<i>335,831</i>	<i>10,259,185</i>	<i>19,514,029</i>	<i>6,137,363</i>	<i>36,246,408</i>
<b>All Resource Based Industries</b>	351,667	10,749,509	21,895,515	6,196,451	39,193,141

**Table 77. Cecil County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	79,526,016	14,022,113	18,712,211	112,260,339
<b>Forestry</b>	21,555,670	3,446,454	3,151,705	28,153,828
<b>Mining</b>	44,676,835	3,294,713	4,646,163	52,617,711
<b>Natural Gas</b>	17,336,339	1,897,317	965,477	20,199,133
<b>Seafood and Aquaculture</b>	826,381	128,347	218,433	1,173,161
<b>Support Industries</b>	78,196,221	7,257,406	9,063,921	94,517,548
<b>(Food/Feed/Fiber Subtotal)</b>	<i>180,104,288</i>	<i>24,854,320</i>	<i>31,146,269</i>	<i>236,104,877</i>
<b>All Resource Based Industries</b>	242,117,462	30,046,350	36,757,909	308,921,721

**Table 78. Cecil County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	1,126	145	158	1,429
<b>Forestry</b>	110	26	27	162
<b>Mining</b>	108	22	39	168
<b>Natural Gas</b>	21	16	8	44
<b>Seafood and Aquaculture</b>	22	0	2	24
<b>Support Industries</b>	411	50	76	537
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,669</b>	<b>222</b>	<b>262</b>	<b>2,153</b>
<b>All Resource Based Industries</b>	<b>1,797</b>	<b>259</b>	<b>309</b>	<b>2,365</b>

**Table 79. Cecil County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	61,636	2,632,433	303,246	3,574,369	6,571,685
<b>Forestry</b>	15,583	414,026	945,868	32,568	1,408,045
<b>Mining</b>	15,545	447,706	1,598,652	100,713	2,162,616
<b>Natural Gas</b>	3,310	102,636	500,815	12,181	618,943
<b>Seafood and Aquaculture</b>	714	24,552	77,702	4,947	107,915
<b>Support Industries</b>	53,751	1,393,490	4,731,737	282,976	6,461,953
<b>(Food/Feed/Fiber Subtotal)</b>	<b>131,684</b>	<b>4,464,501</b>	<b>6,058,554</b>	<b>3,894,860</b>	<b>14,549,598</b>
<b>All Resource Based Industries</b>	<b>150,539</b>	<b>5,014,843</b>	<b>8,158,022</b>	<b>4,007,753</b>	<b>17,331,157</b>

**Table 80. Charles County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	19,191,536	3,015,486	472,542	22,679,564
<b>Forestry</b>	26,964,445	11,114,601	3,852,481	41,931,527
<b>Mining</b>	8,627,689	3,407,018	1,037,291	13,071,998
<b>Natural Gas</b>	35,584,770	3,295,439	628,613	39,508,822
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	18,358,474	3,437,655	2,044,556	23,840,685
<b>(Food/Feed/Fiber Subtotal)</b>	<i>64,514,456</i>	<i>17,567,742</i>	<i>6,369,579</i>	<i>88,451,776</i>
<b>All Resource Based Industries</b>	108,726,915	24,270,199	8,035,482	141,032,596

**Table 81. Charles County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	382	56	4	442
<b>Forestry</b>	191	155	31	377
<b>Mining</b>	61	21	8	90
<b>Natural Gas</b>	95	28	5	128
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	179	52	17	247
<b>(Food/Feed/Fiber Subtotal)</b>	<i>752</i>	<i>263</i>	<i>51</i>	<i>1,066</i>
<b>All Resource Based Industries</b>	907	312	65	1,284

**Table 82. Charles County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	19,047	813,484	93,710	1,104,565	2,030,807
<b>Forestry</b>	36,244	962,987	2,200,002	75,751	3,274,984
<b>Mining</b>	8,313	239,418	854,906	53,858	1,156,496
<b>Natural Gas</b>	9,534	295,611	1,442,435	35,082	1,782,662
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	24,768	642,117	2,180,373	130,395	2,977,653
<b>(Food/Feed/Fiber Subtotal)</b>	<i>80,059</i>	<i>2,418,589</i>	<i>4,474,086</i>	<i>1,310,711</i>	<i>8,283,444</i>
<b>All Resource Based Industries</b>	97,906	2,953,618	6,771,427	1,399,651	11,222,602

**Table 83. Dorchester County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	137,148,335	18,475,536	20,909,354	176,533,225
<b>Forestry</b>	100,094,667	16,728,940	9,488,492	126,312,099
<b>Mining</b>	24,430,651	2,945,092	2,217,781	29,593,523
<b>Natural Gas</b>	90,755,988	5,560,354	3,832,007	100,148,349
<b>Seafood and Aquaculture</b>	73,723,198	11,123,035	4,050,976	88,897,209
<b>Support Industries</b>	742,752,180	136,671,897	52,637,308	932,061,385
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,053,718,380</i>	<i>182,999,408</i>	<i>87,086,129</i>	<i>1,323,803,918</i>
<b>All Resource Based Industries</b>	1,168,905,019	191,504,854	93,135,917	1,453,545,791

**Table 84. Dorchester County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	603	171	170	944
<b>Forestry</b>	280	122	77	479
<b>Mining</b>	70	15	18	104
<b>Natural Gas</b>	115	40	31	186
<b>Seafood and Aquaculture</b>	236	76	33	345
<b>Support Industries</b>	2,212	721	429	3,362
<b>(Food/Feed/Fiber Subtotal)</b>	<b>3,331</b>	<b>1,089</b>	<b>710</b>	<b>5,130</b>
<b>All Resource Based Industries</b>	<b>3,516</b>	<b>1,144</b>	<b>759</b>	<b>5,419</b>

**Table 85. Dorchester County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	40,706	1,738,508	200,270	2,360,579	4,340,062
<b>Forestry</b>	45,993	1,222,022	2,791,782	96,127	4,155,925
<b>Mining</b>	9,562	275,409	983,419	61,954	1,330,344
<b>Natural Gas</b>	13,876	430,206	2,099,192	51,055	2,594,328
<b>Seafood and Aquaculture</b>	10,142	348,613	1,103,317	70,237	1,532,308
<b>Support Industries</b>	336,712	8,729,300	29,641,236	1,772,657	40,479,906
<b>(Food/Feed/Fiber Subtotal)</b>	<b>433,553</b>	<b>12,038,444</b>	<b>33,736,604</b>	<b>4,299,601</b>	<b>50,508,201</b>
<b>All Resource Based Industries</b>	<b>456,991</b>	<b>12,744,058</b>	<b>36,819,215</b>	<b>4,412,610</b>	<b>54,432,874</b>

**Table 86. Frederick County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	185,997,935	44,296,817	39,434,534	269,729,287
<b>Forestry</b>	37,125,021	8,872,495	7,709,024	53,706,541
<b>Mining</b>	33,830,778	4,705,252	5,245,098	43,781,128
<b>Natural Gas</b>	22,248,797	3,401,868	2,464,452	28,115,118
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	876,466,856	239,503,870	97,927,397	1,213,898,124
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,099,589,813</b>	<b>292,673,183</b>	<b>145,070,955</b>	<b>1,537,333,951</b>
<b>All Resource Based Industries</b>	<b>1,155,669,388</b>	<b>300,780,303</b>	<b>152,780,506</b>	<b>1,609,230,197</b>

**Table 87. Frederick County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	1,547	365	308	2,220
<b>Forestry</b>	183	61	60	305
<b>Mining</b>	56	27	41	124
<b>Natural Gas</b>	37	29	19	85
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	1,236	1,190	763	3,189
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,967</b>	<b>1,616</b>	<b>1,131</b>	<b>5,714</b>
<b>All Resource Based Industries</b>	<b>3,060</b>	<b>1,673</b>	<b>1,191</b>	<b>5,923</b>

**Table 88. Frederick County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	95,750	4,089,429	471,087	5,552,706	10,208,972
<b>Forestry</b>	29,275	777,822	1,776,981	61,185	2,645,264
<b>Mining</b>	11,419	328,892	1,174,397	73,986	1,588,694
<b>Natural Gas</b>	6,386	198,000	966,144	23,498	1,194,029
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	319,398	8,280,427	28,117,041	1,681,505	38,398,372
<b>(Food/Feed/Fiber Subtotal)</b>	<b>444,423</b>	<b>13,147,678</b>	<b>30,365,110</b>	<b>7,295,396</b>	<b>51,252,607</b>
<b>All Resource Based Industries</b>	<b>462,229</b>	<b>13,674,571</b>	<b>32,505,651</b>	<b>7,392,880</b>	<b>54,035,330</b>

**Table 89. Garrett County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	48,674,321	11,933,273	15,444,354	76,051,948
<b>Forestry</b>	108,555,484	41,135,660	23,950,478	173,641,622
<b>Mining</b>	125,390,576	20,670,865	21,338,612	167,400,053
<b>Natural Gas</b>	3,073,179	951,932	944,365	4,969,476
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	104,998,108	35,704,366	10,667,712	151,370,186
<b>(Food/Feed/Fiber Subtotal)</b>	<b>262,227,913</b>	<b>88,773,299</b>	<b>50,062,544</b>	<b>401,063,756</b>
<b>All Resource Based Industries</b>	<b>390,691,668</b>	<b>110,396,096</b>	<b>72,345,521</b>	<b>573,433,285</b>

**Table 90. Garrett County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	685	139	149	974
<b>Forestry</b>	516	309	231	1,056
<b>Mining</b>	396	144	205	745
<b>Natural Gas</b>	13	6	9	28
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	103	223	103	428
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,304</i>	<i>671</i>	<i>482</i>	<i>2,458</i>
<b>All Resource Based Industries</b>	1,713	821	697	3,230

**Table 91. Garrett County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	41,989	1,793,334	206,585	2,435,024	4,476,933
<b>Forestry</b>	101,420	2,694,697	6,156,194	211,972	9,164,282
<b>Mining</b>	68,744	1,979,894	7,069,734	445,385	9,563,757
<b>Natural Gas</b>	2,064	64,004	312,309	7,596	385,973
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	42,891	1,111,957	3,775,765	225,805	5,156,418
<b>(Food/Feed/Fiber Subtotal)</b>	<i>186,301</i>	<i>5,599,988</i>	<i>10,138,544</i>	<i>2,872,801</i>	<i>18,797,633</i>
<b>All Resource Based Industries</b>	257,109	7,643,886	17,520,587	3,325,782	28,747,363

**Table 92. Harford County  
Economic Impact-Output**

	Sector Output			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	48,786,470	10,537,829	7,885,319	67,209,617
<b>Forestry</b>	78,800,089	14,775,858	10,540,359	104,116,306
<b>Mining</b>	9,933,819	1,394,525	1,609,735	12,938,079
<b>Natural Gas</b>	2,348,036	335,243	601,692	3,284,971
<b>Seafood and Aquaculture</b>	1,457,143	25,805	693,437	2,176,385
<b>Support Industries</b>	457,830,482	74,671,514	40,416,690	572,918,687
<b>(Food/Feed/Fiber Subtotal)</b>	<i>586,874,184</i>	<i>100,011,007</i>	<i>59,535,805</i>	<i>746,420,996</i>
<b>All Resource Based Industries</b>	599,156,039	101,740,775	61,747,232	762,644,046

**Table 93. Harford County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	748	96	63	907
<b>Forestry</b>	136	102	85	323
<b>Mining</b>	36	9	13	58
<b>Natural Gas</b>	18	2	5	25
<b>Seafood and Aquaculture</b>	19	0	6	25
<b>Support Industries</b>	890	615	325	1,830
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,793</i>	<i>813</i>	<i>479</i>	<i>3,086</i>
<b>All Resource Based Industries</b>	1,847	825	497	3,169

**Table 94. Harford County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	39,123	1,670,898	192,481	2,268,778	4,171,280
<b>Forestry</b>	31,031	824,489	1,883,594	64,856	2,803,970
<b>Mining</b>	5,395	155,392	554,867	34,956	750,610
<b>Natural Gas</b>	1,861	57,714	281,617	6,849	348,042
<b>Seafood and Aquaculture</b>	735	25,262	79,952	5,090	111,038
<b>Support Industries</b>	183,322	4,752,636	16,138,062	965,117	22,039,136
<b>(Food/Feed/Fiber Subtotal)</b>	<i>254,210</i>	<i>7,273,285</i>	<i>18,294,089</i>	<i>3,303,841</i>	<i>29,125,425</i>
<b>All Resource Based Industries</b>	261,467	7,486,391	19,130,573	3,345,646	30,224,077

**Table 95. Howard County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	29,035,419	8,086,335	6,562,008	43,683,763
<b>Forestry</b>	49,803,594	10,636,518	13,884,885	74,324,997
<b>Mining</b>	12,398,583	3,869,301	2,354,057	18,621,941
<b>Natural Gas</b>	99,472,526	15,949,577	5,946,558	121,368,661
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	1,304,355,164	358,677,644	170,084,754	1,833,117,562
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,383,194,177</i>	<i>377,400,497</i>	<i>190,531,647</i>	<i>1,951,126,321</i>
<b>All Resource Based Industries</b>	1,495,065,287	397,219,375	198,832,262	2,091,116,923

**Table 96. Howard County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	433	65	42	540
<b>Forestry</b>	225	59	88	372
<b>Mining</b>	71	19	15	105
<b>Natural Gas</b>	102	86	38	225
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	2,618	1,633	1,081	5,332
<b>(Food/Feed/Fiber Subtotal)</b>	<b>3,276</b>	<b>1,757</b>	<b>1,211</b>	<b>6,244</b>
<b>All Resource Based Industries</b>	<b>3,449</b>	<b>1,861</b>	<b>1,264</b>	<b>6,574</b>

**Table 97. Howard County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	23,270	993,864	114,489	1,349,488	2,481,112
<b>Forestry</b>	35,743	949,683	2,169,608	74,704	3,229,739
<b>Mining</b>	9,728	280,190	1,000,491	63,030	1,353,438
<b>Natural Gas</b>	16,830	521,815	2,546,202	61,927	3,146,774
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	534,040	13,845,053	47,012,297	2,811,512	64,202,903
<b>(Food/Feed/Fiber Subtotal)</b>	<b>593,054</b>	<b>15,788,600</b>	<b>49,296,395</b>	<b>4,235,705</b>	<b>69,913,754</b>
<b>All Resource Based Industries</b>	<b>619,613</b>	<b>16,590,605</b>	<b>52,843,087</b>	<b>4,360,662</b>	<b>74,413,967</b>

**Table 98. Kent County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	96,745,566	19,307,788	15,890,392	131,943,746
<b>Forestry</b>	2,641,704	928,510	660,756	4,230,969
<b>Mining</b>	1,642,012	258,066	193,924	2,094,002
<b>Natural Gas</b>	110,646,610	15,521,123	4,434,533	130,602,266
<b>Seafood and Aquaculture</b>	6,254,823	697,893	1,826,658	8,779,374
<b>Support Industries</b>	92,940,149	15,070,269	4,763,793	112,774,211
<b>(Food/Feed/Fiber Subtotal)</b>	<b>198,582,242</b>	<b>36,004,460</b>	<b>23,141,598</b>	<b>257,728,300</b>
<b>All Resource Based Industries</b>	<b>310,870,864</b>	<b>51,783,649</b>	<b>27,770,055</b>	<b>390,424,568</b>

**Table 99. Kent County  
Economic Impact-Employment**

	Sector Employment			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	584	199	144	927
<b>Forestry</b>	23	12	6	41
<b>Mining</b>	7	2	2	10
<b>Natural Gas</b>	69	128	40	237
<b>Seafood and Aquaculture</b>	22	6	17	44
<b>Support Industries</b>	137	94	43	275
<b>(Food/Feed/Fiber Subtotal)</b>	<b>766</b>	<b>311</b>	<b>209</b>	<b>1,287</b>
<b>All Resource Based Industries</b>	<b>842</b>	<b>441</b>	<b>251</b>	<b>1,534</b>

**Table 100. Kent County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	39,957	1,706,536	196,587	2,317,168	4,260,248
<b>Forestry</b>	3,928	104,363	238,423	8,209	354,924
<b>Mining</b>	950	27,366	97,718	6,156	132,191
<b>Natural Gas</b>	17,711	549,122	2,679,446	65,168	3,311,447
<b>Seafood and Aquaculture</b>	1,296	44,545	140,979	8,975	195,794
<b>Support Industries</b>	27,536	713,879	2,424,049	144,967	3,310,431
<b>(Food/Feed/Fiber Subtotal)</b>	<b>72,717</b>	<b>2,569,323</b>	<b>3,000,037</b>	<b>2,479,320</b>	<b>8,121,397</b>
<b>All Resource Based Industries</b>	<b>91,378</b>	<b>3,145,811</b>	<b>5,777,202</b>	<b>2,550,643</b>	<b>11,565,035</b>

**Table 101. Montgomery County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	55,772,745	9,066,204	12,334,321	77,173,270
<b>Forestry</b>	78,155,278	19,173,887	15,323,801	112,652,966
<b>Mining</b>	23,629,373	6,573,053	5,685,844	35,888,270
<b>Natural Gas</b>	265,478,007	25,971,334	24,590,096	316,039,437
<b>Seafood and Aquaculture</b>	2,894,140	525,899	379,444	3,799,483
<b>Support Industries</b>	310,422,819	76,048,165	57,800,658	444,271,643
<b>(Food/Feed/Fiber Subtotal)</b>	<b>447,244,982</b>	<b>104,814,156</b>	<b>85,838,224</b>	<b>637,897,361</b>
<b>All Resource Based Industries</b>	<b>736,352,363</b>	<b>137,358,543</b>	<b>116,114,164</b>	<b>989,825,069</b>

**Table 102. Montgomery County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	783	79	81	943
<b>Forestry</b>	285	99	100	484
<b>Mining</b>	111	32	37	181
<b>Natural Gas</b>	285	146	161	592
<b>Seafood and Aquaculture</b>	7	3	2	12
<b>Support Industries</b>	1,644	378	378	2,400
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,718</b>	<b>558</b>	<b>562</b>	<b>3,838</b>
<b>All Resource Based Industries</b>	<b>3,115</b>	<b>736</b>	<b>760</b>	<b>4,611</b>

**Table 103. Montgomery County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	40,643	1,735,821	199,960	2,356,931	4,333,355
<b>Forestry</b>	46,461	1,234,443	2,820,157	97,104	4,198,165
<b>Mining</b>	16,681	480,433	1,715,512	108,075	2,320,701
<b>Natural Gas</b>	44,238	1,371,584	6,692,657	162,774	8,271,254
<b>Seafood and Aquaculture</b>	345	11,860	37,536	2,390	52,131
<b>Support Industries</b>	240,396	6,232,296	21,162,402	1,265,591	28,900,685
<b>(Food/Feed/Fiber Subtotal)</b>	<b>327,845</b>	<b>9,214,420</b>	<b>24,220,055</b>	<b>3,722,016</b>	<b>37,484,336</b>
<b>All Resource Based Industries</b>	<b>388,764</b>	<b>11,066,437</b>	<b>32,628,224</b>	<b>3,992,866</b>	<b>48,076,291</b>

**Table 104. Prince George's County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	37,688,890	4,832,865	4,934,060	47,455,815
<b>Forestry</b>	107,205,643	23,372,214	19,244,606	149,822,463
<b>Mining</b>	40,493,557	12,887,725	5,001,124	58,382,406
<b>Natural Gas</b>	754,582,180	94,104,843	41,781,958	890,468,981
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	330,534,531	59,199,419	47,438,074	437,172,024
<b>(Food/Feed/Fiber Subtotal)</b>	<i>475,429,064</i>	<i>87,404,498</i>	<i>71,616,740</i>	<i>634,450,302</i>
<b>All Resource Based Industries</b>	1,270,504,801	194,397,067	118,399,821	1,583,301,689

**Table 105. Prince George's County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	490	61	38	589
<b>Forestry</b>	601	162	147	911
<b>Mining</b>	203	63	38	304
<b>Natural Gas</b>	1,046	766	319	2,130
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	1,508	388	362	2,258
<b>(Food/Feed/Fiber Subtotal)</b>	<i>2,599</i>	<i>611</i>	<i>547</i>	<i>3,757</i>
<b>All Resource Based Industries</b>	3,848	1,440	903	6,191

**Table 106. Prince George's County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	25,379	1,083,916	124,863	1,471,762	2,705,921
<b>Forestry</b>	87,454	2,323,628	5,308,465	182,782	7,902,330
<b>Mining</b>	28,060	808,164	2,885,763	181,800	3,903,787
<b>Natural Gas</b>	159,149	4,934,328	24,077,098	585,587	29,756,162
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	226,120	5,862,175	19,905,617	1,190,431	27,184,343
<b>(Food/Feed/Fiber Subtotal)</b>	338,953	9,269,719	25,338,946	2,844,976	37,792,593
<b>All Resource Based Industries</b>	526,162	15,012,211	52,301,807	3,612,363	71,452,543

**Table 107. Queen Anne's County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	157,890,836	32,416,979	22,889,162	213,196,977
<b>Forestry</b>	11,845,769	3,249,990	1,735,397	16,831,155
<b>Mining</b>	282,286	58,749	52,736	393,771
<b>Natural Gas</b>	2,621,743	706,356	228,019	3,556,118
<b>Seafood and Aquaculture</b>	27,982,979	4,889,549	2,690,220	35,562,748
<b>Support Industries</b>	78,683,250	14,621,063	6,835,612	100,139,925
<b>(Food/Feed/Fiber Subtotal)</b>	276,402,834	55,177,582	34,150,390	365,730,805
<b>All Resource Based Industries</b>	279,306,863	55,942,686	34,431,145	369,680,694

**Table 108. Queen Anne's County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	705	326	197	1,228
<b>Forestry</b>	52	27	15	94
<b>Mining</b>	1	0	0	2
<b>Natural Gas</b>	32	7	2	41
<b>Seafood and Aquaculture</b>	56	38	23	117
<b>Support Industries</b>	261	111	59	431
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,074</b>	<b>501</b>	<b>294</b>	<b>1,870</b>
<b>All Resource Based Industries</b>	<b>1,108</b>	<b>509</b>	<b>297</b>	<b>1,913</b>

**Table 109. Queen Anne's County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	52,942	2,261,102	260,470	3,070,168	5,644,681
<b>Forestry</b>	9,057	240,629	549,732	18,928	818,346
<b>Mining</b>	201	5,800	20,710	1,305	28,016
<b>Natural Gas</b>	3,072	95,241	464,729	11,303	574,345
<b>Seafood and Aquaculture</b>	3,448	118,515	375,085	23,878	520,926
<b>Support Industries</b>	43,140	1,118,417	3,797,699	227,117	5,186,372
<b>(Food/Feed/Fiber Subtotal)</b>	<b>108,586</b>	<b>3,738,663</b>	<b>4,982,986</b>	<b>3,340,091</b>	<b>12,170,326</b>
<b>All Resource Based Industries</b>	<b>111,859</b>	<b>3,839,704</b>	<b>5,468,426</b>	<b>3,352,698</b>	<b>12,772,687</b>

**Table 110. St. Mary's County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	28,407,870	4,594,561	203,077	33,205,508
<b>Forestry</b>	17,258,638	3,699,765	3,188,709	24,147,112
<b>Mining</b>	2,411,386	406,286	261,033	3,078,705
<b>Natural Gas</b>	24,686,750	914,148	380,069	25,980,968
<b>Seafood and Aquaculture</b>	16,712,321	5,274,462	1,857,994	23,844,777
<b>Support Industries</b>	18,058,955	2,805,632	1,684,060	22,548,647
<b>(Food/Feed/Fiber Subtotal)</b>	<i>80,437,784</i>	<i>16,374,420</i>	<i>6,933,840</i>	<i>103,746,044</i>
<b>All Resource Based Industries</b>	107,535,921	17,694,854	7,574,941	132,805,717

**Table 111. St. Mary's County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	589	98	2	689
<b>Forestry</b>	129	54	27	211
<b>Mining</b>	8	2	2	13
<b>Natural Gas</b>	6	6	3	15
<b>Seafood and Aquaculture</b>	508	35	16	559
<b>Support Industries</b>	154	22	14	191
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,381</i>	<i>210</i>	<i>58</i>	<i>1,649</i>
<b>All Resource Based Industries</b>	1,395	218	64	1,676

**Table 112. St. Mary's County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	29,698	1,268,385	146,113	1,722,238	3,166,434
<b>Forestry</b>	20,222	537,283	1,227,455	42,264	1,827,223
<b>Mining</b>	1,159	33,368	119,151	7,506	161,184
<b>Natural Gas</b>	1,112	34,490	168,294	4,093	207,989
<b>Seafood and Aquaculture</b>	16,432	564,850	1,787,679	113,803	2,482,764
<b>Support Industries</b>	19,091	494,931	1,680,591	100,506	2,295,119
<b>(Food/Feed/Fiber Subtotal)</b>	<i>85,443</i>	<i>2,865,450</i>	<i>4,841,837</i>	<i>1,978,810</i>	<i>9,771,540</i>
<b>All Resource Based Industries</b>	87,714	2,933,308	5,129,282	1,990,410	10,140,714

**Table 113. Somerset County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	257,167,958	62,445,979	24,204,863	343,818,799
<b>Forestry</b>	3,317,584	515,294	662,062	4,494,940
<b>Mining</b>	571,167	160,478	46,792	778,436
<b>Natural Gas</b>	0	0	0	0
<b>Seafood and Aquaculture</b>	55,213,341	10,979,770	4,761,266	70,954,377
<b>Support Industries</b>	6,134,469	802,015	918,359	7,854,843
<b>(Food/Feed/Fiber Subtotal)</b>	<i>321,833,351</i>	<i>74,743,058</i>	<i>30,546,551</i>	<i>427,122,960</i>
<b>All Resource Based Industries</b>	322,404,518	74,903,536	30,593,342	427,901,396

**Table 114. Somerset County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	415	355	200	971
<b>Forestry</b>	27	4	5	37
<b>Mining</b>	4	1	0	6
<b>Natural Gas</b>	0	0	0	0
<b>Seafood and Aquaculture</b>	180	70	39	290
<b>Support Industries</b>	103	5	8	115
<b>(Food/Feed/Fiber Subtotal)</b>	<b>725</b>	<b>435</b>	<b>253</b>	<b>1,413</b>
<b>All Resource Based Industries</b>	<b>729</b>	<b>436</b>	<b>253</b>	<b>1,419</b>

**Table 115. Somerset County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	41,878	1,788,572	206,037	2,428,558	4,465,045
<b>Forestry</b>	3,534	93,898	214,516	7,386	319,335
<b>Mining</b>	543	15,645	55,866	3,519	75,574
<b>Natural Gas</b>	0	0	0	0	0
<b>Seafood and Aquaculture</b>	8,516	292,730	926,452	58,978	1,286,675
<b>Support Industries</b>	11,550	299,444	1,016,792	60,808	1,388,593
<b>(Food/Feed/Fiber Subtotal)</b>	<b>65,478</b>	<b>2,474,644</b>	<b>2,363,797</b>	<b>2,555,730</b>	<b>7,459,648</b>
<b>All Resource Based Industries</b>	<b>66,021</b>	<b>2,490,289</b>	<b>2,419,663</b>	<b>2,559,249</b>	<b>7,535,222</b>

**Table 116. Talbot County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	79,852,427	18,645,868	16,827,652	115,325,947
<b>Forestry</b>	29,049,540	8,543,283	6,059,534	43,652,357
<b>Mining</b>	3,549,178	672,375	542,397	4,763,949
<b>Natural Gas</b>	3,788,582	868,817	982,950	5,640,348
<b>Seafood and Aquaculture</b>	28,366,189	5,928,789	3,866,409	38,161,387
<b>Support Industries</b>	123,802,642	21,929,146	14,540,230	160,272,018
<b>(Food/Feed/Fiber Subtotal)</b>	<b>261,070,797</b>	<b>55,047,087</b>	<b>41,293,824</b>	<b>357,411,708</b>
<b>All Resource Based Industries</b>	<b>268,408,556</b>	<b>56,588,278</b>	<b>42,819,171</b>	<b>367,816,006</b>

**Table 117. Talbot County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	439	171	144	753
<b>Forestry</b>	158	65	52	275
<b>Mining</b>	12	4	5	20
<b>Natural Gas</b>	35	7	8	51
<b>Seafood and Aquaculture</b>	334	58	33	425
<b>Support Industries</b>	477	131	124	732
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,408</b>	<b>424</b>	<b>353</b>	<b>2,186</b>
<b>All Resource Based Industries</b>	<b>1,456</b>	<b>435</b>	<b>366</b>	<b>2,257</b>

**Table 118. Talbot County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	32,482	1,387,269	159,808	1,883,661	3,463,220
<b>Forestry</b>	26,452	702,825	1,605,646	55,286	2,390,209
<b>Mining</b>	1,885	54,295	193,874	12,214	262,268
<b>Natural Gas</b>	3,792	117,556	573,616	13,951	708,914
<b>Seafood and Aquaculture</b>	12,506	429,879	1,360,511	86,610	1,889,505
<b>Support Industries</b>	73,303	1,900,401	6,453,007	385,914	8,812,626
<b>(Food/Feed/Fiber Subtotal)</b>	<b>144,743</b>	<b>4,420,374</b>	<b>9,578,972</b>	<b>2,411,470</b>	<b>16,555,560</b>
<b>All Resource Based Industries</b>	<b>150,420</b>	<b>4,592,225</b>	<b>10,346,462</b>	<b>2,437,635</b>	<b>17,526,742</b>

**Table 119. Washington County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	133,080,528	20,076,863	41,469,370	194,626,761
<b>Forestry</b>	142,579,599	25,134,978	19,840,540	187,555,117
<b>Mining</b>	7,525,763	693,633	961,259	9,180,655
<b>Natural Gas</b>	297,695,584	70,933,627	26,055,775	394,684,986
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	88,121,195	11,441,651	12,339,595	111,902,441
<b>(Food/Feed/Fiber Subtotal)</b>	<b>363,781,321</b>	<b>56,653,492</b>	<b>73,649,505</b>	<b>494,084,318</b>
<b>All Resource Based Industries</b>	<b>669,002,668</b>	<b>128,280,752</b>	<b>100,666,539</b>	<b>897,949,959</b>

**Table 120. Washington County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	1,067	170	331	1,569
<b>Forestry</b>	453	170	159	781
<b>Mining</b>	21	4	8	33
<b>Natural Gas</b>	922	423	208	1,553
<b>Seafood and Aquaculture</b>	0	0	0	0
<b>Support Industries</b>	461	72	99	631
<b>(Food/Feed/Fiber Subtotal)</b>	<b>1,981</b>	<b>412</b>	<b>589</b>	<b>2,981</b>
<b>All Resource Based Industries</b>	<b>2,923</b>	<b>839</b>	<b>805</b>	<b>4,567</b>

**Table 121. Washington County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	67,649	2,889,224	332,828	3,923,044	7,212,744
<b>Forestry</b>	75,053	1,994,135	4,555,719	156,864	6,781,770
<b>Mining</b>	3,032	87,338	311,863	19,647	421,880
<b>Natural Gas</b>	116,008	3,596,761	17,550,426	426,850	21,690,045
<b>Seafood and Aquaculture</b>	0	0	0	0	0
<b>Support Industries</b>	63,181	1,637,979	5,561,925	332,624	7,595,709
<b>(Food/Feed/Fiber Subtotal)</b>	<b>205,883</b>	<b>6,521,337</b>	<b>10,450,472</b>	<b>4,412,532</b>	<b>21,590,223</b>
<b>All Resource Based Industries</b>	<b>324,924</b>	<b>10,205,436</b>	<b>28,312,761</b>	<b>4,859,029</b>	<b>43,702,148</b>

**Table 122. Wicomico County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	219,337,746	56,655,401	58,886,041	334,879,188
<b>Forestry</b>	182,851,788	77,839,403	33,315,084	294,006,276
<b>Mining</b>	5,868,007	1,973,969	940,063	8,782,039
<b>Natural Gas</b>	98,429,217	13,736,309	11,474,031	123,639,557
<b>Seafood and Aquaculture</b>	31,659,285	9,087,359	3,333,800	44,080,444
<b>Support Industries</b>	449,793,850	136,086,457	42,543,184	628,423,491
<b>(Food/Feed/Fiber Subtotal)</b>	<b>883,642,668</b>	<b>279,668,621</b>	<b>138,078,110</b>	<b>1,301,389,398</b>
<b>All Resource Based Industries</b>	<b>987,939,892</b>	<b>295,378,898</b>	<b>150,492,204</b>	<b>1,433,810,994</b>

**Table 123. Wicomico County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	881	431	449	1,761
<b>Forestry</b>	451	504	253	1,208
<b>Mining</b>	32	10	7	49
<b>Natural Gas</b>	130	111	87	328
<b>Seafood and Aquaculture</b>	451	86	25	563
<b>Support Industries</b>	798	655	324	1,777
<b>(Food/Feed/Fiber Subtotal)</b>	<b>2,581</b>	<b>1,677</b>	<b>1,051</b>	<b>5,309</b>
<b>All Resource Based Industries</b>	<b>2,743</b>	<b>1,798</b>	<b>1,146</b>	<b>5,686</b>

**Table 124. Wicomico County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				Total (\$)
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	
<b>Agriculture</b>	75,936	3,243,166	373,601	4,403,634	8,096,336
<b>Forestry</b>	116,048	3,083,343	7,044,079	242,543	10,486,012
<b>Mining</b>	4,538	130,694	466,678	29,400	631,310
<b>Natural Gas</b>	24,518	760,162	3,709,217	90,213	4,584,110
<b>Seafood and Aquaculture</b>	16,547	568,808	1,800,204	114,600	2,500,160
<b>Support Industries</b>	177,983	4,614,222	15,668,064	937,009	21,397,278
<b>(Food/Feed/Fiber Subtotal)</b>	<b>386,513</b>	<b>11,509,538</b>	<b>24,885,948</b>	<b>5,697,787</b>	<b>42,479,786</b>
<b>All Resource Based Industries</b>	<b>415,569</b>	<b>12,400,394</b>	<b>29,061,842</b>	<b>5,817,400</b>	<b>47,695,205</b>

**Table 125. Worcester County  
Economic Impact-Output**

	Sector Output			Total
	Direct	Indirect	Induced	
<b>Agriculture</b>	251,865,648	50,706,287	23,573,607	326,145,542
<b>Forestry</b>	15,530,654	4,327,780	1,522,868	21,381,302
<b>Mining</b>	1,916,193	289,231	208,170	2,413,594
<b>Natural Gas</b>	14,444,488	3,908,737	1,471,339	19,824,565
<b>Seafood and Aquaculture</b>	4,953,146	52,545	440,412	5,446,104
<b>Support Industries</b>	136,605,147	14,967,316	6,780,878	158,353,341
<b>(Food/Feed/Fiber Subtotal)</b>	<b>408,954,596</b>	<b>70,053,928</b>	<b>32,317,765</b>	<b>511,326,289</b>
<b>All Resource Based Industries</b>	<b>425,315,277</b>	<b>74,251,896</b>	<b>33,997,275</b>	<b>533,564,448</b>

**Table 126. Worcester County  
Economic Impact-Employment**

	Sector Employment			
	Direct	Indirect	Induced	Total
<b>Agriculture</b>	566	229	190	985
<b>Forestry</b>	76	36	12	124
<b>Mining</b>	8	2	2	11
<b>Natural Gas</b>	184	40	12	236
<b>Seafood and Aquaculture</b>	131	0	4	135
<b>Support Industries</b>	266	98	55	419
<b>(Food/Feed/Fiber Subtotal)</b>	<i>1,039</i>	<i>364</i>	<i>261</i>	<i>1,663</i>
<b>All Resource Based Industries</b>	1,231	406	274	1,911

**Table 127. Worcester County  
Economic Impact-Tax Revenue**

	Sources of Tax Revenue				
	Employee Compensation	Household Expenditures	Corporations	Taxes on Production and Imports	Total (\$)
<b>Agriculture</b>	42,487	1,814,575	209,032	2,463,865	4,529,958
<b>Forestry</b>	11,942	317,303	724,898	24,960	1,079,104
<b>Mining</b>	1,047	30,165	107,712	6,786	145,710
<b>Natural Gas</b>	17,640	546,933	2,668,762	64,908	3,298,243
<b>Seafood and Aquaculture</b>	3,965	136,300	431,371	27,461	599,097
<b>Support Industries</b>	41,922	1,086,834	3,690,457	220,703	5,039,917
<b>(Food/Feed/Fiber Subtotal)</b>	<i>100,316</i>	<i>3,355,012</i>	<i>5,055,759</i>	<i>2,736,989</i>	<i>11,248,076</i>
<b>All Resource Based Industries</b>	119,004	3,932,110	7,832,234	2,808,682	14,692,030

