


The Economic Impact of University System of Georgia Institutions on their Regional Economies in FY 2020

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Commissioned by
The Board of Regents of the University System of Georgia

Dr. Jeffrey M. Humphreys, Director  Selig Center for Economic Growth



Executive Summary

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Introduction

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Economic Impact Highlights

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Results

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QTotal Output Impact Q

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QTotal Value-Added Impact Q

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Figure 1
Schematic Representation of Impact Relationship

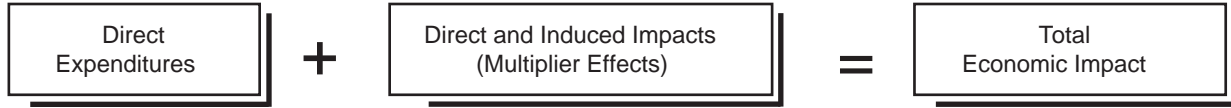


Figure 2
How Multipliers Capture the Impact of Re-spending

Initial Direct or Indirect Impact	\$100	
First Round of Re-spending	\$50 re-spent locally	\$50 leakage*
Second Round of Re-spending	\$25 re-spent locally	\$25 leakage
Third Round of Re-spending	\$12.50 re-spent locally	\$12.50 leakage
Fourth Round of Re-spending	\$6.25 re-spent locally	\$6.25 leakage
Fifth Round of Re-spending	\$3.12 re-spent locally	\$3.12 leakage
Sixth Round of Re-spending	\$1.56 re-spent locally	\$1.56 leakage
Seventh Round of Re-spending	\$.78 re-spent locally	\$.78 leakage
Total Economic Impact	\$200	Total Leakage \$100

*Leakage indicates amounts spent outside area and not re-circulated locally.

Table 1

Total Economic Impact of All Institutions of the University System of Georgia
on their Regional Economies in Fiscal Year 2020

Total for All Institutions in 2020	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment Impact
	<u>F X U U H Q W</u>	<u>G R O M B B V</u>	<u>G R O M B B V</u>	<u>G R O M B B V</u>	<u>G R O M B B V</u>
System total	12,606,286,003	18,584,935,804	12,714,706,137	8,798,237,646	155,010
Personnel services	4,958,307,615	8,602,960,598	7,083,973,273	6,097,625,159	78,494
Operating expenses	3,199,985,957	3,875,909,590	1,886,300,660	998,595,756	24,108
Student spending	4,447,992,431	6,106,065,616	3,744,432,204	1,702,016,731	52,408

Notes:

The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN and production functions provided by IMPLAN.

Initial spending for personnel services and operating expenses were obtained from the Board of Regents of the University System of Georgia. The author estimated initial spending by students.

Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property income, and indirect business taxes. Labor income includes both the total payroll costs (including both full-time and part-time jobs).

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Table 2

Total Economic Impact of University System of Georgia
Institutions on their Regional Economies in Fiscal Year 2020

<u>Institution</u>	<u>Initial Spending</u>	<u>Output Impact</u>	<u>Value Added Impact</u>	<u>Labor Income Impact</u>	<u>Employment Impact</u>
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Comprehensive Universities

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Table 2 (continued)

Total Economic Impact of University System of Georgia
Institutions on their Regional Economies in Fiscal Year 2020

Institution	Initial	Output	Value Added	Labor Income	Employment
	Spending	Impact	Impact	Impact	Impact
	F X U U H Q W	G R X U O U D H L Q W	G R X U O U D H L Q W	G R X U O U D H L Q W	G R M D R E D W V
State Universities					
Albany State University	181,921,238	214,895,053	138,571,227	91,640,240	2,328
Personnel Services	53,650,610	83,314,613	70,193,064	61,915,815	1,026
Operating Expenses	45,330,155	29,661,076	11,496,028	6,302,384	231
Student Spending	82,940,473	101,919,364	56,882,135	23,422,041	1,071
Clayton State University	180,477,996	292,455,756	196,827,323	125,028,780	2,545
Personnel Services	54,676,834	102,539,483	83,285,393	70,370,671	1,158
Operating Expenses	36,157,284	56,199,057	28,975,065	15,150,282	325
Student Spending	89,643,878	133,717,216	84,566,865	39,507,827	1,062
Columbus State University	224,878,552	272,665,158	182,254,397	123,143,659	2,823
Personnel Services	73,959,914	115,456,804	96,856,237	85,777,249	1,337
Operating Expenses	48,687,935	34,597,101	13,890,413	6,741,535	250
Student Spending	102,230,703	122,611,253	71,507,747	30,624,875	1,236
Fort Valley State University	122,107,975	140,985,030	95,003,549	67,256,686	1,487
Personnel Services	41,535,835	65,629,341	55,174,346	48,547,210	814
Operating Expenses	43,539,859	30,489,551	13,185,120	7,320,773	228
Student Spending	37,032,281	44,866,138	26,644,083	11,388,703	445
Georgia College & State University	225,637,666	282,507,363	194,644,104	133,005,020	2,931
Personnel Services	80,449,058	129,044,875	107,822,993	94,636,255	1,499
Operating Expenses	42,528,929	30,587,856	13,383,479	7,284,430	223
Student Spending	102,659,679	122,874,632	73,437,632	31,084,335	1,209
Georgia Southwestern State University	87,472,349	89,737,776	56,389,225	37,280,167	1,091
Personnel Services	26,396,110	36,236,656	31,763,525	28,758,405	480
Operating Expenses	21,931,812	10,495,537	3,402,932	1,824,540	90
Student Spending	39,144,427	43,005,583	21,222,768	6,697,222	521
Middle Georgia State University	202,341,130	247,992,739	163,045,744	105,866,726	2,579
Personnel Services	58,300,596	92,049,118	77,009,705	67,782,165	1,083
Operating Expenses	40,739,336	28,492,875	11,899,294	6,503,654	215
Student Spending	103,301,198	127,450,746	74,136,745	31,580,907	1,281
Savannah State University	132,502,085	162,883,237	103,819,933	69,865,319	1,562
Personnel Services	37,778,483	60,871,244	47,892,056	43,264,395	720
Operating Expenses	43,719,714	38,372,015	16,805,187	9,155,648	272
Student Spending	51,003,888	63,639,978	39,122,690	17,445,276	570
University of North Georgia	494,577,241	692,023,560	458,491,784	298,881,943	6,411
Personnel Services	150,698,143	255,902,754	210,315,144	182,156,079	2,848
Operating Expenses	89,933,696	99,385,020	43,536,212	24,134,552	682
Student Spending	253,945,402	336,735,786	204,640,428	92,591,312	2,881

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Table 2 (continued)

Total Economic Impact of University System of Georgia
Institutions on their Regional Economies in Fiscal Year 2020

Institution	Initial	Output	Value Added	Labor Income	Employment
	Spending	Impact	Impact	Impact	Impact
	F X U U H Q W	G R Y C U D H Q W	G R Y C U D H Q W	G R Y C U D H Q W	G R N O E D U V
State Colleges					
Abraham Baldwin Agricultural College	101,556,174	115,093,083	73,484,554	50,644,280	1,276
Personnel Services	28,624,113	40,795,906	35,319,705	31,841,021	570
Operating Expenses	24,084,295	14,912,482	5,619,015	3,159,997	109
Student Spending	48,847,766	59,384,695	32,545,834	15,643,262	597
Atlanta Metropolitan State College	46,331,566	74,647,381	49,180,103	30,679,453	612
Personnel Services	12,438,495	23,326,823	18,946,689	16,008,704	246
Operating Expenses	12,241,275	19,026,543	9,809,690	5,129,223	110
Student Spending	21,651,796	32,294,015	20,423,724	9,541,526	256
College of Coastal Georgia	83,242,049	99,716,374	64,867,080	41,650,071	1,036
Personnel Services	23,135,007	35,607,978	30,242,384	26,627,480	437
Operating Expenses	16,854,750	13,136,090	5,007,937	2,605,757	103
Student Spending	43,252,292	50,972,306	29,616,759	12,416,834	496
Dalton State College	117,708,121	132,070,425	82,829,857	55,466,034	1,290
Personnel Services	28,170,623	40,752,926	35,284,508	31,676,528	417
Operating Expenses	28,060,117	17,435,250	6,777,100	3,849,395	126
Student Spending	61,477,381	73,882,249	40,768,249	19,940,111	747
East Georgia State College	64,318,392	70,056,633	43,260,621	26,742,232	774
Personnel Services	14,587,374	21,384,707	18,335,449	16,345,789	279
Operating Expenses	15,474,970	7,502,789	2,934,499	1,540,874	56
Student Spending	34,256,048	41,169,137	21,990,673	8,855,569	439
Georgia Gwinnett College	316,121,271	508,419,001	338,518,072	210,224,229	3,834
Personnel Services	85,448,373	160,247,610	130,157,525	109,974,534	1,288
Operating Expenses	65,158,363	101,275,266	52,215,422	27,302,038	586
Student Spending	165,514,535	246,896,125	156,145,125	72,947,657	1,960
Georgia Highlands College	127,899,127	174,859,790	112,702,318	67,435,137	1,708
Personnel Services	28,271,359	47,525,404	39,571,421	34,188,792	669
Operating Expenses	27,011,619	29,624,771	13,604,122	6,787,175	194
Student Spending	72,616,149	97,709,615	59,526,775	26,459,170	845
Gordon State College	81,030,049				

FRQWLQXHG

Table 2 (continued)

Total Economic Impact of University System of Georgia
Institutions on their Regional Economies in Fiscal Year 2020

Institution	Initial	Output	Value Added	Labor Income	Employment
	Spending	Impact	Impact	Impact	Impact
	F X U U H Q W	G R X O U D H Q W	G R X O U D H Q W	G R X O U D H Q W	G R M D R O E D U V
South Georgia State College	61,533,124	65,120,087	41,185,046	27,118,560	720
Personnel Services	15,203,515	22,150,792	18,960,484	17,011,317	286
Operating Expenses	15,821,322	7,013,734	2,760,953	1,591,997	52
Student Spending	30,508,287	35,955,561	19,463,609	8,515,246	382

Notes:

The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN and production functions provided by IMPLAN.

Initial spending for personnel services and operating expenses were obtained from the Board of Regents of the University System of Georgia. The author estimated initial spending by students.

Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary LQFRPH RWKHU SURSHUW\ LQFRPH DQG LQGLUHFV EXVLQHVV WD[HV /DERU LQFRPH LQFOXGH who are paid by employers and payments received by self-employed individuals. Employment includes both full-time and part-time jobs.

Expenditures and impacts for Augusta University do not include impacts associated with the AU Health System, Inc., which are reported in Appendix 3.

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Table 3

On-Campus and Off-Campus Jobs that Exist
Due to Institution-Related Spending in Fiscal Year 2020

<u>Institution</u>	<u>Total Employment Impact</u>	<u>On-Campus Jobs</u>	<u>Off-Campus Jobs That Exist Due to Institution-Related Spending</u>
System Total	155,010	52,904	102,106
Research Universities	86,590	30,795	55,795
Augusta University	11,858	5,689	6,169
Georgia Institute of Technology	28,516	9,667	18,849
Georgia State University	20,604	5,260	15,344
University of Georgia	25,613	10,179	15,434

86,590

Notes: On-campus and off-campus jobs reported for Augusta University exclude employment impacts for the AU Health System, Inc., which are reported in Appendix 3.

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Table 4

Output Impact of All USG Institutions
in FY 2020 Compared to FY 2019, With Percent Change

Impact Category	Fiscal Year 2020 (2019 dollars/jobs)	Fiscal Year 2019	
		G R O O D U V	M R E Percent Change
Initial Spending	12,606,286,003	12,591,482,010	0.1
Output Impact	18,584,935,804	18,471,540,386	0.6
Value Added Impact	12,714,706,137	12,584,029,470	1.0
Labor Income Impact	8,798,237,646	8,590,406,952	2.4
Employment Impact	155,010	157,770	-1.7

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Table 5

Output Impact For All USG Institutions
in FY 2020 Compared to FY 2019, With Percent Change

Institution	Output Impact in FY 2020 (2019 dollars)	Output Impact in FY 2019 (2019 dollars)	Percent Change
System Total	18,584,935,804	18,471,540,386	0.6
Research Universities	11,212,559,998	10,943,690,806	2.5
Augusta University	1,452,453,819	1,375,595,910	5.6
Georgia Institute of Technology	4,008,439,560	3,852,743,729	4.0
Georgia State University	2,786,822,976	2,803,161,755	-0.6
University of Georgia	2,964,843,643	2,912,189,412	1.8
Comprehensive Universities	3,606,538,423	3,619,884,058	-0.4
Georgia Southern University	961,126,047	984,130,600	-2.3
Kennesaw State University	1,650,279,707	1,619,942,802	1.9
University of West Georgia	626,323,337	632,323,791	-0.9
Valdosta State University	368,809,331	383,486,865	-3.8
State Universities	2,396,145,672	2,461,234,531	-2.6
Albany State University	214,895,053	222,070,453	-3.2
Clayton State University	292,455,756	302,478,169	-3.3
Columbus State University	272,665,158	290,480,614	-6.1
Fort Valley State University	140,985,030	143,749,305	-1.9
Georgia College & State University	282,507,363	290,331,157	-2.7
Georgia Southwestern State University	89,737,776	90,984,938	-1.4
Middle Georgia State University	247,992,739	249,508,413	-0.6
Savannah State University	162,883,237	172,199,505	-5.4
University of North Georgia	692,023,560	699,431,977	-1.1
State Colleges	1,369,691,711	1,446,730,991	-5.3
Abraham Baldwin Agricultural College	115,093,083	128,754,568	-10.6
Atlanta Metropolitan State College	74,647,381	90,544,053	-17.6
College of Coastal Georgia	99,716,374	104,946,126	-5.0
Dalton State College	132,070,425	137,758,116	-4.1
East Georgia State College	70,056,633	77,977,155	-10.2
Georgia Gwinnett College	508,419,001	519,538,555	-2.1
Georgia Highlands College	174,859,790	181,400,770	-3.6
Gordon State College	129,708,936	137,669,238	-5.8
South Georgia State College	65,120,087	68,142,410	-4.4

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Appendix 1

Study Areas for Institutions

Research Universities

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Georgia Institute of Technology – Atlanta MSA
Georgia State University – Atlanta MSA
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Comprehensive Universities

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State Universities

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Clayton State University – Atlanta MSA
&ROXPEXV 6WDWH 8QLYHUVLW\ 2 0XVFRJHH7DQURULV7URQDSWDQGRWFKZBUWBURICAD 6@

Appendix 2

Economic Impact of Capital Outlays
in Fiscal Year 2020

Institution	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment Impact
	\$	\$	\$	\$	#
System Total	224,955,000	368,722,349	215,670,645	137,494,982	2,529
Research Universities	63,800,000	115,036,305	68,778,423	44,664,600	725
Augusta University	4,900,000	6,926,528	4,241,526	2,180,026	38
Georgia Institute of Technology	4,300,000	9,178,712	5,433,183	3,976,862	53
Georgia State University	48,000,000	87,737,270	53,573,540	34,842,824	569
University of Georgia	6,600,000	11,193,795	5,530,174	3,664,888	65
Comprehensive Universities					

Notes: The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN and production functions provided by IMPLAN. Initial spending for capital projects were obtained from the Board of Regents of the University System of Georgia. Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property and payments received by self-employed individuals. Employment includes both full- and part-time jobs. Estimates for Augusta University exclude impacts associated with the AU Health System, Inc., which are reported in Appendix 3.

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Appendix 3

Combined Economic Impact of Augusta University and AU Health System, Inc. in Fiscal Year 2020

Institution	Initial	Output	Value Added	Labor Income	Employment
	Spending	Impact	Impact	Impact	Impact
	FXUUHQW	GFODHQW	GFODHQW	GRFOUHQW	GRMBVV
Augusta University	1,133,188,439	1,459,380,347	1,076,678,457	877,640,422	11,896
Personnel Services	654,523,557	1,026,088,309	863,879,254	765,821,720	8,548
Operating Expenses	341,590,028	254,150,358	109,537,117	61,946,016	1,744
Student Spending	132,174,854	172,215,152	99,020,560	47,692,660	1,566
Capital Spending	4,900,000	6,926,528	4,241,526	2,180,026	38
AU Health System, Inc.	1,021,578,608	1,267,891,729	930,149,975	777,497,860	9,520
:DJHV 6DODULHV DQG %HQHÀWV					
Other Operating Expenditures	403,768,989	300,412,849	129,475,944	73,221,927	2,062
Student Spending	0	0	0	0	0
Capital Spending	25,776,937	39,359,861	19,276,602	11,573,661	210

Grand Total Economic Impact of Augusta University and AU Health System, Inc.

Grand Total	2,154,765,047	2,727,272,075	2,006,828,432	1,655,138,282	21,415
:DJHV 6DODULHV DQG %HQHÀWV					
Operating Expenses	745,359,017	554,563,207	239,013,061	135,167,943	3,806
Student Spending	132,174,854	172,215,152	99,020,560	47,692,660	1,566
Capital Spending	30,676,937	46,286,389	23,518,128	13,753,687	248

Note: Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property type income, and indirect business taxes. Labor income includes both the total payroll costs of workers who are paid by employers and payment received by self-employed individuals. Employment LQFOXGHV ERWK IXOO WLPH DQG SDUW WLPH MREV ,QLWLDO VSHQGLQJ H VWL 6\ VWHP ,QF D FRPSRQH QW XQLW RI WKH 6WDWH RI *HRUJLD)LQDQFLDO 6V \$FFRXQWDQWV -XQH DQG 2WKHU RSHUDWLQJ H[SHQGLWXUHV GR amortization. The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN, Type SAM multipliers, and consumption functions provided by IMPLAN.

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Appendix 4

Combined Economic Impact of Augusta University and AU Health System, Inc.
on the Augusta MSA in Fiscal Year 2020

<u>Institution</u>	<u>Initial Spending</u>	<u>Output Impact</u>	<u>Value Added Impact</u>	<u>Labor Income Impact</u>	<u>Employment Impact</u>
	<u>F X U U H Q W</u>	<u>G R F O X D U U H Q W</u>	<u>G F O X D U H Q W</u>	<u>G R F O D W H Q W</u>	<u>G R O V R D E U V</u>

Grand Total Economic Impact of Augusta University and AU Health System, Inc.

Note: Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property type income, and indirect business taxes. Labor income includes both the total payroll costs of workers who are paid by employers and payment received by self-employed individuals. Employment

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 amortization. The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using the

Appendix 5

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Economic Impact of FY 2020 Expenditures

Augusta University has established clinical campuses in Albany, Savannah, and Rome, which generate economic impacts for their host communities. Appendix 5 documents the economic impact that the Albany, Savannah, and Rome clinical campuses had on their host communities in FY 2020.

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Appendix 6

\$XJXVWD 8QLYHUVLW\ DQG 8*\$ 0HGLFDO 3DUWQHUVKLS·V \$WKHQV
Economic Impact of FY 2020 Expenditures

In partnership, Augusta University and the University of Georgia opened a new campus in Athens in FY 2011, which generates
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had on its host community in FY 2020.

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RSHUDWLQJ H[SHQVH DQG LQ VWXGHQW VSHQGLQJ DQG LC
Fiscal Affairs/Budget Director, Board of Regents, University System of Georgia provided expense data for personnel and operations
DV ZHO DV HQUROPHQW GDWD

The economic impact accruing to Athens includes:

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Appendix 7

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Appendix 8

Total Economic Impact of Information Technology Services in Athens
On the Regional Economy in Fiscal Year 2020

	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment Impact
<u>ITS in Athens</u>	<u>FXUUHQW</u>	<u>GFEODHQW</u>	<u>GFEODHQW</u>	<u>GFEODHQW</u>	<u>GFEODHQW</u>
Total	37,777,228	52,141,678	36,123,529	28,572,674	414
Personnel Services	20,065,727	33,702,869	27,829,263	24,101,781	287
Operating Expenses	17,711,501	18,438,809	8,294,266	4,470,893	127

Notes: The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN and production functions provided by IMPLAN. Initial spending for personal services and operating expenses were obtained from the %RDUG RI 5HJHQWV RI WKH 8QLYHUVLW\ 6\ VWHP RI *HRUJLD ,76 RSHUDWLQJ H[SHQWV not included because this amount represents various contracts and software licenses with suppliers that are unlikely to be located in WKH \$WKHQV DUHD ,Q DGGLWLRQ D VXEVWDQWLDO RI WKLV DPRXQW UHSUHVHQWV its ability to obtain better pricing. Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property income, and indirect business taxes. Labor income includes ERWK WKH WRWDO SD\UROO FRVWV LQFOXGLQJ IULQJH EHQHAWV RI ZRUNHU\ ZKR are individuals. Employment includes both full-time and part-time jobs. The total employment impact of 414 jobs consists of 185 USG jobs H[SUHVVHG RQ D)7(EDVLV DQG RII VLWH MREV WKDW DUH SULPDULO\ LQ WKH area there are 1.2 off-site jobs that exist because of ITS-related spending.

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Appendix 9

Total Economic Impact of the Shared Services Center in Sandersville
On the Regional Economy in Fiscal Year 2020

	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment Impact
SSC Sandersville	5,929,509	7,458,227	6,194,078	5,485,765	87
Total	5,929,509	7,458,227	6,194,078	5,485,765	87
Personnel Services	4,890,602	6,946,996	6,013,820	5,391,542	83
Operating Expenses	1,035,907	511,231	180,258	94,223	4

Notes: The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using IMPLAN and production functions provided by IMPLAN. Initial spending for personal services and operating expenses were obtained from the Board of Regents of the University System of Georgia. Output refers to the value of total production, including domestic and foreign trade. Value added includes employee compensation, proprietary income, other property income, and indirect business taxes. Labor by self-employed individuals. Employment includes both full-time and part-time jobs. The total employment impact of 87 jobs consists of 86 full-time jobs and 1 part-time job. For each FTE job created at the Shared Services Center, there are 0.3 off-site jobs that exist because of Center-related spending.

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