Commonwealth of Virginia December 16, 2019

Report to the Governor and the General Assembly of Virginia

# **Economic Development Incentives 2019** Spending and Performance





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# Contents

Summary	i
Economic Development Incentives 2019	1
State spent \$2.4 billion on incentives FY10–FY18	1
Incentives have increased in number and spending	3
More than 4,400 projects were awarded \$903 million in grants FY10–FY18	5
Through tax incentives, businesses saved \$1.6 billion FY10–FY18	18
Through financing programs, businesses obtained \$43 million in loans and gap funding FY10–FY18	21

# Appendixes

A:	Study mandate	25
B:	Research methods and activities	27
C:	Incentive program descriptions	34
D:	Spending or tax expenditure by incentive	47
E:	Regional distribution of grant awards	52
F:	Average employment size of grant recipients by program	54
G:	Project-specific goals used by grant programs	55
Н.	Agency responses	56

# WHAT WE FOUND

• Virginia spent \$2.4 billion on 79 economic development incentives from FY10 to FY18. This amounts to 1.4 percent of total general fund spending during this time. Total spending on incentives in FY18 (\$285 million) was slightly less

than spending in the previous fiscal year, during which a custom incentive grant was awarded.

- Sixty-six percent of the spending on incentives was for tax incentives such as sales and use tax exemptions (\$1 billion), tax credits (\$438 million), and single sales apportionment for manufacturers (\$91 million).
- The remaining 34 percent was spent on grants (\$776 million) and other incentives such as loans and gap financing programs (\$28 million).
- Overall, the amount spent on incentives increased by 105 percent between FY10 and FY18. This increase is more than twice the increase in the state general fund and total operating budgets during that time.

#### WHY WE DID THIS STUDY

Through language in the Appropriation Act, the General Assembly directed the Joint Legislative Audit and Review Commission (JLARC) to review and evaluate economic development initiatives. Topics include spending on incentives and activity generated by businesses receiving incentives; the economic benefits of incentives; and the effectiveness of incentives.

JLARC releases two reports each year: a high-level summary report on overall spending and business activity and an indepth report on the effectiveness of selected individual incentives. (See Appendix A: Study mandate.) JLARC contracted with the Weldon Cooper Center for Public Service to perform the analysis for both reports.

This report is the third in the series of overall spending and business activity and focuses on incentives that were provided between FY10 and FY18.

- Collectively, Virginia economic development incentive grant programs awarded \$903 million to 4,461 projects between FY10 and FY18. Actual spending on grant projects was \$127 million less than the total amount awarded because of award cancelations, reductions, or recaptures.
- Completed projects receiving grant funds created more than 70,000 jobs and nearly \$15 billion in capital investment or other spending. The majority of these projects met their capital investment goals, and only one-quarter met their job creation goals.

Economic Development Incentives 2019 – Summary

# **Economic Development Incentives 2019**

Virginia provides economic development incentives to encourage businesses to locate or expand their operations in the state as part of its economic development strategy. To better understand the effectiveness of these incentives in stimulating business activity, the General Assembly directed the Joint Legislative Audit and Review Commission (JLARC) to review spending on and performance of economic development incentives such as grants, tax preferences, and other assistance. (See Appendix A.) JLARC contracted with the University of Virginia's Weldon Cooper Center for Public Service to perform the evaluation.

This report is the third in a series of annual reports about Virginia's economic development incentives, trends in state spending on incentives, and performance of incentive programs. Every other year the reports in this series will include information about the economic benefits of total spending on economic development incentives. The 2018 report was the first in which information on economic benefits was included, and this information will be included again in the 2020 report.

This report provides summary information on 79 economic development incentive programs, including grants, tax preferences, business loans, and gap financing. The incentive programs covered in this report are funded by the state, are actively providing incentives, and have a primary purpose of promoting economic activity through location or expansion of businesses. Businesses may also benefit from a variety of other grants, tax credits, and exemptions offered by the state for purposes other than economic development; these programs are not included in this report.

# State spent \$2.4 billion on incentives FY10–FY18

Virginia spent \$2.4 billion on 79 economic development incentives over the past nine fiscal years (Figure 1), for an average of \$263 million per year. Nearly all incentives are funded by the state general fund (with the exception of incentives provided by the Tobacco Region Revitalization Commission), and spending on incentives represented approximately 1.4 percent of total general fund spending between FY10 and FY18. In addition, the majority of spending on incentives was forgone revenue from tax incentives. Sales and use tax exemptions make up 44 percent of forgone revenue, and tax credits and single sales apportionment for manufacturers together make up 22 percent of forgone revenue. Almost all the remaining spending was for grants.

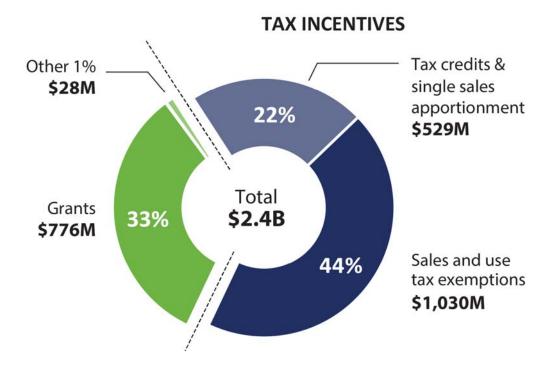
Ten incentives accounted for approximately two-thirds of the spending on incentives between FY10 and FY18 (Table 1). Two of the top three—the Data Center Exemption and Railroad Common Carriers Exemption—provided \$673 million in exemptions to businesses in capital-intensive sectors that make large purchases of equipment. Because of the incentives, these purchases are exempt from the retail sales and use tax. The second-largest incentive was the Coalfield Employment Enhancement Tax Credit, which provided \$226 million for metallurgical coal mining and coal bed methane production

For purposes of this report, incentives spending refers to (1) actual expenditures by the state in the form of grant awards or other financing and (2) estimated tax expenditures, in the form of forgone revenue, through tax credits or sales and use tax exemptions. Actual expenditures may occur for refundable tax credits, such as the film tax credit. See Appendix B for more information on methods used to estimate spending for each program.

The time period FY10 to FY18 was chosen for this report because agencies have maintained data as far back as FY10. Starting in 2020, the report will cover a 10-year period. (and before January 1, 2017 for other underground coal production). Other top incentives include the Commonwealth's Opportunity Fund, the state's primary "deal closing" program, which awarded \$118 million for 228 projects; the Tobacco Region Opportunity Fund Grant, which awarded \$99 million to 277 projects; and the Tobacco Region Megasite Grant, which awarded 36 grants totaling \$97 million for nine industrial parks in the Southside and Southwest regions.

#### **FIGURE 1**





SOURCE: Weldon Cooper Center analysis of economic development incentive programs.

NOTE: Estimates may not sum because of rounding. Adjusted for canceled projects, recaptures, and award reductions. Exemptions exclude the 1 percent sales tax for localities and the additional amounts collected in Northern Virginia and Hampton Roads. Includes the Coalfield Employment and Enhancement Tax Credit, which had expired January 1, 2017 but was reinstated in 2018. Includes single sales apportionment for manufacturers for which an estimate was previously not available.

#### TABLE 1

### Ten incentives are responsible for two-thirds of spending (FY10-FY18)

Incentive		Spending	% of spending
Data Center Exemption		\$487M	21%
Coalfield Employment Enhancement Tax Credit		226	10
Railroad Common Carriers Exemption		186	8
Commonwealth's Opportunity Fund		118	5
Tobacco Region Opportunity Fund		99	4
Tobacco Region Megasite Grants		97	4
Real Property Investment Grant		94	4
Manufacturing single sales factor apportionment		91	4
Virginia Coal Production and Employment Incentive Ta	ax Credit	89	4
Airline Common Carriers Exemption		87	4
Si	ubtotal	\$1,573M	67%
AI	l others	\$791M	33%
	TOTAL	\$2,364M	100%

SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: Excludes several tax preferences for which data was not available. Includes Coalfield Employment Enhancement Tax Credit, which had expired but was reinstated in 2018. Includes single sales apportionment for manufacturers for which an estimate was previously not available. Adjusted for canceled projects, recaptures, and award reductions. Exemptions exclude the 1 percent sales tax for localities and, in most cases, the additional amounts collected in Northern Virginia and Hampton Roads. (See Appendix C for a description and Appendix D for spending for all incentives.)

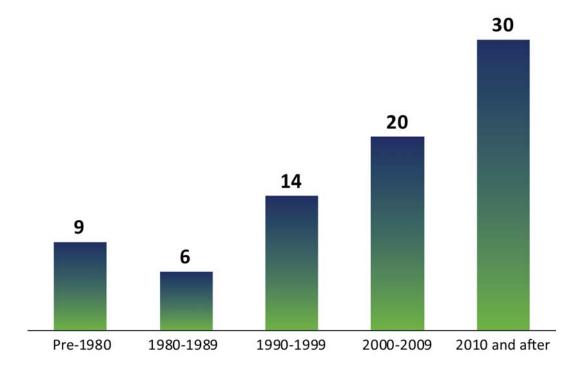
# Incentives have increased in number and spending

The number of economic development incentives offered by the state has grown over time (Figure 2). The oldest is the Economic Development Access Program—a grant program designed to improve transportation access for industrial sites—which was adopted in 1956. Among the newest, and the largest, is the Advanced Shipbuilding Production Facility Grant Program, a customized performance grant adopted in 2016 for Newport News Shipbuilding, for a new facility to manufacture a new class of nuclear ships. Half of the current incentives were adopted in 2005 or after.

Overall, the amount spent on economic development incentives increased by 105 percent between FY10 and FY18, though the spending amount varies from year to year (Figure 3). This increase is more than twice the increase in the state general fund and total operating budgets during the time period (38 percent and 42 percent, respectively). Much of the overall increase in incentive spending occurred between FY10 and FY15 because of newly adopted programs, which have grown over time. The Data Center Exemption was first claimed in FY10 at an estimated \$3 million in exemptions but is now estimated to total more than \$86 million in exemptions annually. Manufacturers could begin using single sales apportionment in FY14, and it was estimated to reduce income tax revenue by \$2 million that year. This incentive is estimated to reduce revenue by \$23 million in FY18. Spending for the Commonwealth's Opportunity Fund, Major Research and Development Tax Credit, and Motion Picture Production Tax Credit have each increased by \$5 million or more overall between FY10 and FY18, either because of increasing incentive activity or because they were new incentives during the time period.

#### FIGURE 2

#### More than one-third of current incentives were adopted in 2010 or after



SOURCE: Weldon Cooper Center analysis of economic development incentive programs. NOTE: Excludes expired incentives. See Appendix C for the year when each incentive was adopted.

Incentive spending often fluctuates from year to year because of program changes or large or atypical awards. Newport News Shipbuilding received a \$32.8 million award from the Advanced Shipbuilding Training Facility Grant in FY11, which contributed to a spike in incentive spending for that year. Two programs contributed to the spike in incentive spending in FY13. Two-thirds (\$59.5 million) of the total Virginia Coal Production and Employment Tax Credit awards between FY10 and FY18 were awarded in FY13. The estimated amount of the Data Center Exemption increased by \$53 million between FY12 and FY13 after colocation data centers, which are operated by a landlord and may have multiple data centers as tenants, were allowed to use the exemption.







SOURCE: Weldon Cooper Center analysis of economic development incentive programs. NOTE: Adjusted for canceled projects, recaptures, and award reductions. Amounts differ from earlier Economic Development Incentives reports because of project cancelations, recaptures for nonperforming projects, and adjusted reporting on completed projects. Includes Coalfield Employment Enhancement Tax Credit, which had expired but was reinstated in 2018. Includes single sales apportionment for manufacturers for which an estimate was previously not available. Not adjusted for inflation. The trend is similar if adjusted for inflation.

Several programs have experienced sizable declines in spending since FY15, which has resulted in spending on incentives being relatively stable since FY16. The Tobacco Region Megasite grant program awarded \$18 million annually for the development of industrial parks between FY11 and FY15. Since then, however, only \$4.9 million in FY18 has been awarded. Estimated tax savings because of the Coalfield Employment Enhancement Tax Credit also declined, from \$28.4 million in FY15 to \$15.2 million in FY18.

# More than 4,400 projects were awarded \$903 million in grants FY10–FY18

Even though sales and use tax incentives—particularly exemptions—have a larger impact on the state budget, Virginia's grant programs are the most widely recognized economic development incentive. The grant programs—which are typically funded with general funds, with some exceptions—incentivize economic growth by encouraging businesses to expand or locate in the state. Collectively, Virginia's economic development incentive grant programs awarded \$903 million to 4,461 projects between FY10 and FY18 (Table 2). Ten of the 22 grant programs each provided more than \$30 million in awards during the time period. **Economic development** grants are financial incentives provided to businesses in return for locating in the state or expanding business activity. Some grants are discretionary, which means that the state can negotiate the terms of the grant with the business. Other grants are automatically awarded if the business meets the minimum requirements. Grants are not repaid as long as businesses meet program requirements.

Several programs that are not commonly identified as grant programs are included in this category because they provide financial assistance to businesses (or to a third party for their benefit).

# TABLE 2

# Grant programs made more than 4,400 awards totaling \$903 million (FY10–FY18)

	Total FY	10–FY18	Annual average	
Program	Award amount	# of awards	Award amount	# of awards
Tobacco Region Opportunity Fund	\$152.6M	277	\$17.0M	31
Commonwealth's Opportunity Fund	129.8	228	14.4	25
Tobacco Commission Megasite Grant	109.0	36	13.6	5
Virginia Jobs Investment Program	100.1	1,012	11.1	112
Real Property Investment Grant (Enterprise Zone)	93.7	1,435	10.4	159
Virginia Investment Partnership Grant	47.0	56	5.2	6
Advanced Shipbuilding Production Facility Grant	46.0	1	n.a.	n.a.
Virginia Economic Development Incentive Grant	39.3	8	4.4	1
Transportation Partnership Opportunity Fund	35.2	11	3.9	1
Advanced Shipbuilding Training Facility Grant	32.8	1	n.a.	n.a.
Governor's Motion Picture Opportunity Fund	25.8	46	2.9	5
Economic Development Access Program	23.9	42	2.7	5
Job Creation Grant (Enterprise Zone)	22.5	505	2.5	56
Rail Industrial Access Program	10.7	31	1.2	3
Commonwealth Research Commercialization Fund	10.3	174	1.5	25
Small Business Jobs Grant Fund Program	7.4	137	0.8	15
Agriculture and Forestry Industries Devel. Grant	5.5	63	1.1	13
VALET Program	3.9	216	0.4	24
Port of Virginia Economic and Infrastructure Grant	3.5	11	0.7	2
Small Business Investment Grant Fund	1.9	38	0.4	8
Virginia Business Ready Site Program	1.2	8	1.2	8
Trade Show Assistance Program	1.1	124	0.5	62
GO Virginia	0.2	1	0.2	1
All programs	\$903.3M	4,461	\$123.2M	569

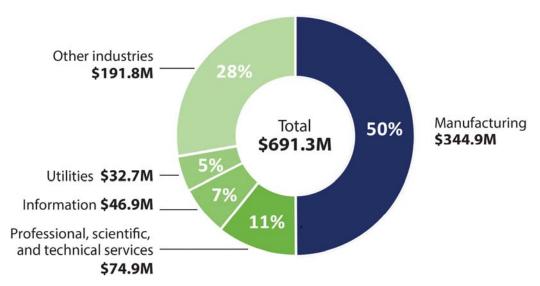
SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Includes all awards and amounts *prior* to recaptures, cancelations, or reductions. For this reason, amounts for the Tobacco Region Opportunity Fund, Commonwealth's Opportunity Fund, and Virginia Jobs Investment Program are higher than amounts shown in Table 1. Newport News Shipbuilding received the custom Advanced Shipbuilding Training Facility Grant in FY11 and the Advanced Shipbuilding Production Facility Grant in FY17. These grants provide custom one-time awards that were or will be paid out over several years based on performance.

# Grant funding is targeted to manufacturing sector and Southside and Southwest Virginia

Half of grant funding was directed to businesses in the manufacturing sector (Figure 4). This sector is commonly represented because grant programs generally target "basic" industry firms, which are companies that export at least half their goods or services outside the state. Targeting these businesses is desirable because they bring

new revenue into the state. Another 23 percent of grant funding was directed to businesses in the professional, scientific, and technical service sectors (11 percent); information services sector (7 percent); and utilities sector (5 percent).



# FIGURE 4 Half of grant funding was directed to manufacturers (FY10–FY18)

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Excludes \$212 million in awards for which industry information was unavailable. The "all other" category includes businesses in the management of companies and real estate sectors. Estimates may not sum because of rounding.

Geographically, the largest amount of grant awards went to highly populated localities, such as Newport News (\$116 million) and Fairfax County (\$53 million). Several less populated counties—such as Henry and Greensville—also received large amounts (\$41 million and \$39 million respectively). Ten localities received approximately 48 percent of the total amount awarded for the period (Table 3).

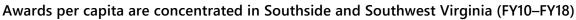
Locality	Amount awarded	% of total amount	# awards	% of total awards
Newport News City	\$116M	8.2%	248	5.5
Fairfax County	53	6.2	301	6.7
Henry County	41	4.7	105	2.4
Richmond City	39	4.6	344	7.7
Greensville County	39	4.6	28	0.6
Arlington County	37	4.3	65	1.5
Brunswick County	30	3.5	7	0.2
Accomack County	30	3.5	33	0.7
Henrico County	24	2.8	170	3.8
Mecklenburg County	23	2.7	28	0.6
Subtotal	\$434M	<b>48.0</b> %	1,329	29.8%
All others	\$470	52.0%	3,132	70.2%
TOTAL	\$903M	100.0%	4,461	100.0%

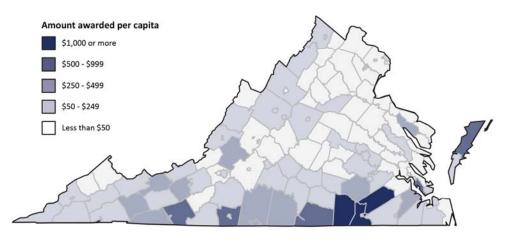
### TABLE 3 Ten localities accounted for almost half of grant award amounts (FY10–FY18)

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Localities were not assigned to 14 Governor's Motion Picture Opportunity Fund projects because filming occurred in multiple locations. One Tobacco Commission Megasite Grant is also unassigned. Estimates may not sum because of rounding.

Rural localities in the southern part of the state received a large proportion of grant funding, relative to population size (Figure 5). Tobacco Region localities received approximately 38 percent of all economic development grant awards, largely due to the contributions of the Tobacco Commission's Tobacco Region Opportunity Fund and Megasite Grant programs. The highest per capita award amounts were in Greensville County (\$3,360), which benefited from large awards for the Mid-Atlantic Advanced Manufacturing Center; Brunswick County (\$1,855), which was the location of a Dominion Power gas power plant that received \$30 million in financial assistance; and Sussex County (\$1,190), which is the location of a Tobacco Commission-funded megasite. (See Appendix E for maps of the regional distribution of grant awards, overall and per capita.)





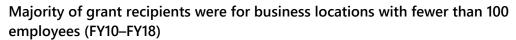
SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

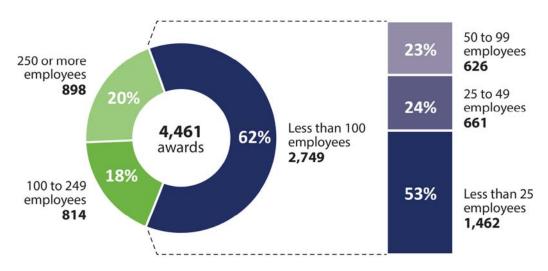
The per capita amount awarded per locality has a slight positive association with the 2018 local unemployment rate, indicating that more funds are generally provided to localities that are economically distressed. The number of awards per capita is even more positively correlated with the local unemployment rate.

# Majority of grant projects were for business locations that had fewer than 100 employees at the time of the award

Sixty-two percent of the grant awards between FY10 and FY18 were for business locations that had fewer than 100 employees at the time the awards were made (Figure 6). Of this group, 53 percent were for business locations with fewer than 25 employees. These businesses received grant awards from programs, such as the Small Business Investment Grant or Commonwealth Research and Commercialization Fund, that tend to make awards to start-up businesses with 10 or fewer employees, on average. In contrast, 20 percent of grant awards were for large businesses with 250 or more employees. Custom grants and four other grant programs—Transportation Partnership Opportunity Fund, Virginia Investment Partnership Grant, Virginia Economic Development Incentive Grant, and the Port of Virginia Economic and Infrastructure Grant—tend to make awards to business locations with 250 employees or more. (See Appendix F for the average employment size of grant recipients by program.)

Many businesses have operations in multiple **locations**. Grants and other incentives are often provided to projects that occur at a specific business location.





SOURCE: Weldon Cooper Center analysis of economic incentive grant awards.

NOTE: Employment records were matched with 2,705 of the 4,461 awards (61 percent) and \$358 million of \$903 million in total awards. The numbers and percentages shown in the figure reflect a weighted distribution of awards and amounts using information from the matched records.

# Grant awards have generally declined since FY11

While grant awards increased dramatically between FY10 and FY11, they have since declined (Figure 7). Grant awards in FY10 were low because of the lingering effects of the 2008–09 recession on business activity. Grant awards more than tripled in FY11 when two large incentive programs were introduced: the Tobacco Commission Megasite Grant, which awards \$14 million in incentives per year on average, and the custom Advanced Shipbuilding Training Facility Grant, which made a one-time award of \$32.8 million to Newport News Shipbuilding. Grant awards have experienced a declining trend since FY11, with the exception of FY17, when Newport News Shipbuilding received another custom grant award of \$46 million from the Advanced Shipbuilding Production Facility Grant. Much of the overall decrease in awards since FY11 is a result of declining Tobacco Region Megasite and Tobacco Region Opportunity Fund grant awards over time. (See Appendix D for grant awards by program.)



Grant spending has generally declined since FY11

SOURCE: Weldon Cooper Center analysis of economic incentive grant awards.

NOTE: Adjusted for canceled projects, recaptures, and award reductions. Amounts differ from earlier Economic Development Incentives reports because of project cancelations, recaptures for nonperforming projects, and adjusted reporting on completed projects. Not adjusted for inflation. (The trend is the same if adjusted for inflation.)

# Programs vary in amount awarded per job created and level of business investment

The size of grant awards ranged widely by program (Table 4). Awards ranged from an average high of \$4.9 million to a low of \$8,300 per project (excluding the two custom grant awards to Newport News Shipbuilding of \$32.8 million and \$46 million).

The size of the award in relation to project goals also varied widely by program, based on program goals, guidelines, and the types of projects targeted (Table 4). Grant programs require that projects meet certain minimum requirements to be eligible for grant funding. These minimum requirements vary based on the goals of the program, but the most common are job creation and some form of business investment or spending in Virginia. The average grant award per expected job for Virginia projects was \$4,205 between FY10 and FY18, but it ranged from a high of \$46,000 per job (Advanced Shipbuilding Production Facility Grant) to a low of less than \$1,000 (Virginia Jobs Investment Program and Small Business Jobs Grant Fund). The average award per \$1,000 of expected capital investment or additional spending was \$25 and ranged from a high of \$200 (Economic Development Access Program) to a low of \$5 (Agriculture and Forestry Industries Development Grant).

# TABLE 4Average grant awards by program varied widely (FY10–FY18)

	Average award amount per				
Program	Project	\$1,000 in spending or investment in Virginia (expected)	Job created in Virginia (expected)		
Advanced Shipbuilding Production Facility Grant	\$46,000,000	\$61	\$46,000		
Transportation Partnership Opportunity Fund	3,197,218	103	37,177		
Advanced Shipbuilding Training Facility Grant	32,777,745	109	32,778		
Rail Industrial Access Program	345,157	40	9,745		
Virginia Economic Development Incentive Grant	4,912,500	75	6,928		
Virginia Investment Partnership Grant	838,393	14	6,510		
Tobacco Region Opportunity Fund	550,927	22	6,390		
Small Business Investment Grant Fund	50,092	147	3,893		
Commonwealth's Opportunity Fund	569,217	14	3,416		
Agriculture and Forestry Industries Develop. Grant	87,844	5	2,560		
Port of Virginia Economic and Infrastructure Grant	317,318	n.a.	2,148		
GO Virginia	200,000	2	2,000		
Job Creation Grant (Enterprise Zone)	44,599	n.a.	1,659		
Virginia Jobs Investment Program	98,921	10	916		
Small Business Jobs Grant Fund Program	54,072	25	850		
Tobacco Commission Megasite Grant	3,026,924	**	n.a.		
Economic Development Access Program	569,155	200	n.a.		
Governor's Motion Picture Opportunity Fund	560,912	**	n.a.		
Virginia Business Ready Site Program	148,452	n.a.	n.a.		
Real Property Investment Grant (Enterprise Zone)	65,565	39	n.a.		
Commonwealth Research Commercialization Fund	61,365	243	n.a.		
VALET Program	16,383	n.a.	n.a.		
Trade Show Assistance Program	8,302	n.a.	n.a.		
Average, all projects	\$202,490	\$25	\$4,205		

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Expected jobs and spending or investment were used for programs that awarded grants prior to when project performance began. *Actual* jobs and spending or investment were used for programs for which performance already occurred prior to projects receiving a grant award. The goal of the VALET program is to increase a company's international sales rather than to encourage job creation or capital investment; therefore, the average award amount per \$1,000 in spending or investment or jobs created is not relevant for this program. As of FY18, most GO Virginia awards (\$11.4 million) have not been for specific business projects. Average award amounts are calculated using total spending across programs divided by the total number of projects, amount of expected capital investment, and expected jobs across programs.

n.a. indicates that job creation or investment is not among the criteria considered for obtaining the grant.

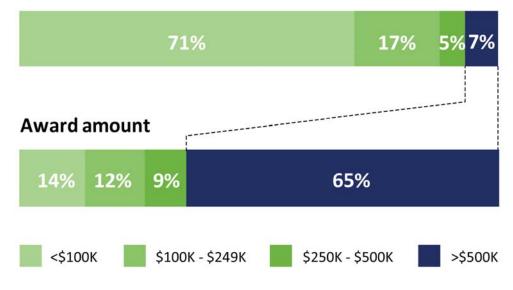
\*\* indicates that data was not provided for the program.

From FY10 to FY18, only 7 percent of awards were for more than \$500,000 each. However, these larger awards accounted for the majority of the grant funding (Figure 8).

# FIGURE 8

Seven percent of grant awards accounted for 65 percent of total grant funding (FY10–FY18)

# Number of awards



SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Number of grants awarded is 4,461. Total amount awarded is \$903.3 million (not adjusted for cancelations, recaptures, and refunds).

# Completed projects created more than 70,000 jobs and nearly \$15 billion in business investment and spending

Projects that received grant awards between FY10 and FY18 and completed their location or expansion project collectively created an estimated 70,000 jobs and \$14.9 billion in capital investment or other spending (Table 5). Completed projects that received Virginia Jobs Investment Program grants accounted for the largest share of jobs (45,340) and capital investment and other spending (\$7.2 billion). Projects funded through the Commonwealth's Opportunity Fund ranked second in job creation (15,320 jobs) and business spending (\$5.0 billion). **Completed projects** represent 3,701 projects and \$422.6 million in awards. Not all projects that received a grant award between FY10 and FY18 had completed their performance at the end of FY18.

It is likely that the majority of the jobs and business investment or spending by completed projects would have occurred without incentives. In 2012, JLARC reported that approximately 10 percent of location and expansion decisions, on average, are swayed by typical economic development incentives. However, the success in swaying business decisions likely varies by program (JLARC, Review of State Economic Development Incentive Grants, 2012).

## TABLE 5

# Completed projects created over 70,000 jobs and nearly \$15 billion in business spending or investment (FY10–FY18)

Program	# of projects	Spending or investment (\$M)	Jobs created
Virginia Jobs Investment Program	826	\$7,241	45,340
Commonwealth's Opportunity Fund	100	5,009	15,320
Job Creation Grant (Enterprise Zone)	505	n.a.	13,577
Tobacco Region Opportunity Fund	159	2,194	6,406
Small Business Jobs Grant Fund Program	122	**	3,023
Port of Virginia Economic and Infrastructure Grant	11	n.a.	1,625
Advanced Shipbuilding Training Facility Grant	1	358	1,520
Agriculture and Forestry Industries Devel. Grant	12	343	876
Tobacco Commission Megasite Grant	19	n.a.	450
Commonwealth Research Commercialization Fund	131	34	n.a.
Economic Development Access Program	23	36	n.a.
Governor's Motion Picture Opportunity Fund	42	278	n.a.
Rail Industrial Access Program	27	203	n.a.
Real Property Investment Grant (Enterprise Zone)	1,435	2,393	n.a.
Transportation Partnership Opportunity Fund	8	n.a.	n.a.
	Total (duplicated):	\$18,087M	88,137
	Total (unduplicated):	\$14,899M	70,475

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Completed projects represented about \$423 million in total awards across programs. Some grant programs, such as the Major Eligible Employer and Virginia Investment Partnership Grants, had no completed projects during this time period. Jobs are not counted for the Governor's Motion Picture Opportunity Fund program because they are part time or seasonal and not comparable to other programs' reporting of full-time jobs. Transportation Partnership Opportunity Fund did not have investment and performance goals for projects prior to 2015. Many projects receive grants from more than one program. No unique identifiers exist to easily identify projects that received grants from multiple programs. The unduplicated number of jobs and investment or spending is an estimate based on a review of projects with similar business names, locations, time periods, and other factors. VALET program (166 completed projects) is not included in the table because its goal is to increase a company's international sales, and job creation and capital investment are not reported by program participants.

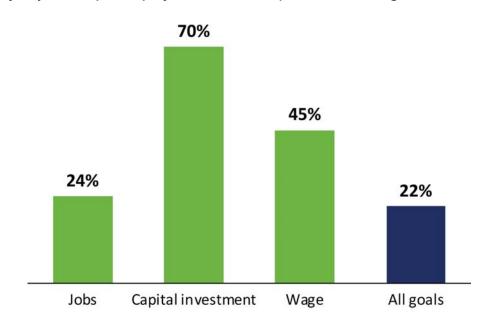
n.a. indicates that job creation or investment is not one of the criteria for receiving the grant.

\*\* indicates that data was not provided for program.

# Majority of completed projects met capital investment goals, and only one-quarter met their job creation goals

Ten grant programs establish an "up front" award agreement with project-specific goals. The most common project-specific goals are job creation, capital investment, and average wages paid. Several programs use alternative goals that are more relevant to their program. For example, transportation-related programs, such as the Rail Industrial Access Program and Port of Virginia Economic and Infrastructure Grant, establish project-specific goals for rail car volume and Virginia port usage, respectively. (See Appendix G for goals across programs.)

Seventy percent of completed projects met or exceeded their project-specific goals for capital investment or other spending (Figure 9). Forty-five percent met their average wage goals, and about 24 percent met their job creation goals.



### FIGURE 9 Majority of completed projects met their capital investment goals (FY10–FY18)

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: N=1,403 duplicated projects. Only includes projects from programs that establish project-specific goals. Some programs allow projects to attain 90 percent of specific goal(s) before award reduction or recapture is made. For simplicity of making calculations across programs, projects that exceeded 90 percent (or other established percent-age) for a specific goal but did not achieve 100 percent are not included in the figure.

Attainment rates for project-specific goals varied widely by program (Table 6). The custom Advanced Shipbuilding Training Facility Grant and Port of Virginia Economic and Infrastructure Program were the only programs for which the project-specific goals for all projects were attained. Goal achievement was especially low for some programs. Only 14 percent of the 159 completed Tobacco Region Opportunity Fund projects met all project-specific goals.

		% of projects that achieved goal			
Program	# of projects	Job creation	Capital investment	Average wage	All goals
Advanced Shipbuilding Training Facility Grant	1	100%	100%	n.a.	100%
Port of Virginia Economic and Infrastructure Grant	11	100	n.a.	n.a.	100
Commonwealth Research Commercialization Fund	131	n.a.	n.a.	n.a.	82
Rail Industrial Access Program	27	n.a.	67	n.a.	63
Agriculture and Forestry Industries Devel. Grant	12	50	50	**	42
Commonwealth's Opportunity Fund	100	51	58	63	37
Virginia Jobs Investment Program-Retraining	190	n.a.	95	56	35
Economic Development Access Program	23	n.a.	35	n.a.	35
Tobacco Region Opportunity Fund	159	29	37	41	14
Virginia Jobs Investment Program – Job Creation	636	20	74	40	10
Small Business Jobs Grant Fund Program	122	12	**	50	8
Total	1,412	24%	70%	45%	22%

# TABLE 6Attainment of project-specific goals varied by program (FY10–FY18)

SOURCE: Weldon Cooper Center analysis of economic development incentive grants.

NOTE: Some programs have other goals, which are reflected in the "All goals" column. The goal of the VALET program is to increase international sales, and 72 percent of the participants met or exceeded their goal for increased international sales. Some programs, such as the Commonwealth's Opportunity Fund, allow projects to attain 90 percent of specific goals before award reduction or recapture is made. Projects that exceeded 90 percent (or other established percentage) for a specific goal but did not achieve 100 percent are not shown in the percentage of projects that achieved goal. For the Commonwealth's Opportunity Fund, 60 percent of projects met at least 90 percent of their job creation goal, and 66 percent met at least 90 percent of their capital investment goal. The Virginia Jobs Investment Program and Small Business Jobs Grant Program do not establish project-specific goals, but they are included here because grant awards are committed based on an expected number of jobs and amount of capital, although reimbursement is established as a set amount per job actually created and paid post-performance. This may lead to over-commitment of funding to many projects that do not create the number of jobs expected. Some projects do not collect information on average wage levels upon completion of the project. n.a. indicates that job creation or investment is not one of the criteria for receiving the grant.

\*\* indicates that data was not provided for program.

Some grant *programs* were successful overall in achieving goals for job creation and capital investment, even though some of the *projects* funded by the programs did not achieve their project-specific goals. For example, only 51 percent of completed projects that received a Commonwealth's Opportunity Fund grant fully achieved their job creation goals (Table 6). However, some projects far exceeded their job creation goal, such that collectively, all projects created 104 percent of the total jobs that were expected (Table 7). This program also had overall success in achieving its capital investment and average wage goal. The Tobacco Region Opportunity Fund, however, was not successful overall in achieving its goals, with the exception of the average wage goal.

### TABLE 7

### Projects for most grant programs collectively met their average wage goals (FY10-FY18)

Program	Job creation	Spending or investment	Average wage
Advanced Shipbuilding Training Facility Grant	152%	119%	n.a.
Commonwealth's Opportunity Fund	104	132	113
Port of Virginia Economic and Infrastructure Grant	100	n.a.	n.a.
Agriculture and Forestry Industries Devel. Grant	87	67	**
Virginia Jobs Investment Program	54	85	105
Small Business Jobs Grant Fund Program	38	**	103
Tobacco Region Opportunity Fund	38	60	138
Commonwealth Research Commercialization Fund	n.a.	100	n.a.
Economic Development Access Program	n.a.	56	n.a.
Rail Industrial Access Program	n.a.	90	n.a.

SOURCE: Weldon Cooper Center analysis of economic incentive grants.

NOTE: The Virginia Jobs Investment Program and Small Business Jobs Grant Program do not establish project-specific goals like other programs. However, they are included here because grant awards are committed based on an expected number of jobs and amount of capital, although reimbursement is established as a set amount per job actually created and paid post-performance. This leads to over commitment of funding to many projects that do not create the number of jobs expected. Not all projects collect average wage levels upon completion of the project to calculate the percentage of projects that attained wage goals. The VALET program is excluded from the table because its goal is to increase international sales. Collectively, program participants increased international sales by 126 percent of the goal.

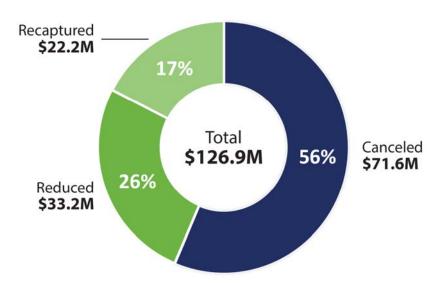
n.a. indicates that job creation or investment is not one of the criteria for receiving the grant.

\*\* indicates that data was not provided for program.

# Grant awards totaling \$127 million were canceled, reduced, or recaptured because projects did not achieve goals

When projects do not go forward or do not meet their goals, the grant awards may be canceled, reduced, or recaptured. Grant awards totaling \$127 million (or 15 percent of the total paid or committed between FY10 and FY18) were canceled, reduced, or recaptured because the projects did not go forward or meet their goals (Figure 10). Half of the \$127 million was never paid because projects did not go forward and were canceled. Another 26 percent was not paid to projects that did not meet their goals, and the award amount was reduced.

Grant awards totaling \$127 million were canceled, reduced, or recaptured (FY10–FY18)



SOURCE: Weldon Cooper Center analysis of economic development incentive grant awards or award commitments and program information of recaptures, reductions, and cancelations. Numbers may not sum because of rounding.

Approximately \$22 million was recaptured between FY10 and FY18 from 100 projects that failed to meet their performance goals. Recaptures are a feature of grant programs that make up-front award payments. Each of these programs recaptured small percentages of the funds they awarded:

- Agriculture and Forestry Industries Development grant: 13 percent;
- Commonwealth's Opportunity Fund: 10 percent;
- Tobacco Region Opportunity Fund: 9 percent;
- Rail Industrial Access Program: 8 percent;
- Small Business Investment Grant: 1 percent
- Economic Development Access Program: 1 percent; and
- Commonwealth Research Commercialization Fund: 1 percent.

# Through tax incentives, businesses saved \$1.6 billion FY10–FY18

Virginia's economic development tax incentives, such as exemptions, credits, and single sales apportionment, resulted in \$1.56 billion in tax savings to businesses between FY10 and FY18. Most (82 percent) of this amount was from sales and use tax exemptions that provide savings to businesses on their purchases of equipment and supplies that qualify for the exemption. Nine of the 19 sales and use tax exemptions each provided more than \$20 million in incentives to businesses between FY10 and FY18 (Table 8). Some of these exemptions are provided to capital-intensive industries, such as

Exemptions to Virginia's retail sales and use tax can be claimed by businesses for qualifying purchases.

Agencies administering

grants reported recap-

than the full amount that

should have been recap-

tured according to grant guidelines. The upcoming in-depth reports on these incentives will provide more information

about agency efforts to

recapture funding when

projects do not achieve

their goals.

turing \$22 million in grant awards. In some cases, this may be less

Virginia's retail sales and use tax is currently 7 percent of eligible purchases in the Historic Triangle (the city of Williamsburg and the counties of James City and York), 6 percent of eligible purchases in Northern Virginia and Hampton Roads, and 5.3 percent of eligible purchases in the rest of the state. One percent is retained by the locality where the purchase is made.

The sales tax applies to the sale of certain goods and services purchased in the state and is generally collected by the merchant at the point of sale.

The **use tax** is levied on out-of-state purchases that are used in Virginia and is self-assessed and remitted to the state by the consumer. data centers and airlines, that make substantial equipment purchases to start or upgrade their operations.

### TABLE 8

# Sales and use tax exemptions provided an estimated \$1 billion in tax savings to businesses (FY10–FY18)

Exemption	Total savings (\$M)	Average savings per year (\$M)
Data Center Exemption	\$486.7M	\$54.1M
Railroad Common Carriers Exemption	185.9	20.7
Airline Common Carriers Exemption	87.0	9.7
Ships and Vessels Exemption	65.7	7.3
Research and Development Exemption	38.5	4.3
Media Provider Equipment Exemption	38.4	4.3
Certain Printed Materials for Out-of-State Distribution Exemption	34.5	3.8
Railroad Rolling Stock Exemption	30.0	3.3
Pollution Control Equipment & Facilities Exemption	29.8	3.3
Semiconductor Manufacturers Exemption	8.4	0.9
Film, Television, and Audio Production Inputs Exemption	8.2	0.9
Uniform Rental and Laundry Businesses Exemption	7.1	0.8
Out-of-State Nuclear Facility Repair Exemption	4.4	0.5
Taxi Parts and Radios Exemption	2.8	0.3
Semiconductor Wafers Exemption	1.2	0.1
Virginia Spaceport Users Exemption	0.9	0.1
Contractor Temporary Storage Exemption	0.9	0.1
Electrostatic Duplicators Exemption	0.1	<0.1
Total	\$1,030.4M	\$114.5M

SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: Exempted amounts are estimates and exclude the 1 percent sales tax for localities and, in most cases, the additional amounts collected in the Historic Triangle, Northern Virginia, and Hampton Roads. (See Appendix B for methodology used to estimate the sales and use tax exemptions.)

Economic development tax credits provided less (\$438 million) in savings to businesses relative to exemptions between FY10 and FY18 (Table 9). The largest credit the Coalfield Employment Enhancement Tax Credit—is available to coal mining companies to help slow the decline of coal mining activity in Virginia. It was repealed effective January 1, 2017 and was not included in prior reports. The credit was reinstated in 2018 with modifications that will reduce the amount of credit coal companies can claim. Four other credits awarded more than \$20 million in credits during this period. While many of the older tax credits are designed to encourage businesses such as manufacturers to locate or expand in Virginia, the credits adopted more recently are designed to incentivize businesses in other industries (film, wineries, and transportation or distribution companies).

Tax credits allow businesses or their owners to reduce their income tax liability, dollar for dollar, according to the amount allowed under the credit.

#### TABLE 9

### Tax credits provided nearly \$438 million in tax savings to businesses (FY10–FY18)

	Tax credit	Total savings (\$M)
Information on job crea-	Coalfield Employment Enhancement Tax Credit	\$225.5M
tion, spending, and	Virginia Coal Production and Employment Incentive Tax Credit	89.1
other business require- ments in return for re-	Motion Picture Production Tax Credit	28.3
ceiving tax incentives is	Major Business Facility Job Tax Credit	24.2
not readily available as it	Research and Development Expenses Tax Credit	22.2
is for grants.	Qualified Equity and Subordinated Debt Investment Tax Credit	19.3
Performance of tax in- centives will be included	Recyclable Materials Processing Equipment Tax Credit	12.2
in upcoming reports de-	Virginia Port Volume Increase Tax Credit	6.1
tailing the findings of in-	Major Research and Development Tax Credit	6.1
depth evaluations of in- dividual incentives. As	Worker Retraining Tax Credit	1.6
part of this effort, JLARC	International Trade Facility Tax Credit	1.3
staff will collect perfor-	Farm Wineries and Vineyards Tax Credit	0.9
mance data—which is	Barge and Rail Usage Tax Credit	0.6
either not currently col- lected or not readily available—on tax incen-	Telework Expenses Tax Credit	0.3
	Green Job Creation Tax Credit	0.1
tives.	Biodiesel and Green Diesel Fuels Producers Tax Credit	<0.1
	Total, all tax credits	\$437.8M

SOURCE: Weldon Cooper Center analysis of tax credit information from the Department of Taxation. NOTE: The average tax credit award per year is not reported for tax credits because several new programs were adopted during this time period and several other programs provided too few awards for disclosure purposes. The Coalfield Employment Enhancement Tax Credit was not included in prior reports because it expired January 1, 2017. It was reinstated in 2018.

Since 2014, Virginia has allowed manufacturers to use single sales apportionment—a method that could reduce their income tax liability—to help stem the decline of the industry in the state. Tax savings for manufacturers using single sales apportionment is estimated to be \$91 million between FY14 and FY18, or about \$20 million per year.

# Savings to businesses through tax incentives more than doubled FY10-FY18

Annual tax savings realized by businesses because of economic development tax exemptions and credits more than doubled between FY10 and FY18 (Figure 11). This occurred for several reasons. The Data Center Exemption became effective after FY10; by FY18 its annual tax savings to businesses are estimated to be more than \$86 million. Manufacturers single sales apportionment became effective in FY14; by FY18 its annual tax savings to businesses are estimated to be \$23 million. Gradual improvements in the economy since FY10 also led to a recovery in business spending and investment. The increase in investment magnified the fiscal impact of sales and use tax exemptions that target capital intensive industries, such as rail, air, and water transportation companies. Savings from tax credits were highest in FY13 because the Virginia Coal Production and Employment Incentive Tax Credit experienced a large

Apportionment formulas are used to ensure that states do not tax more than their fair share of income from multistate companies. Virginia's standard formula uses three factors (property, payroll, and sales) and doubleweights the sales factor.

Manufacturers use single sales apportionment to calculate their taxable income in Virginia based solely on their proportion of total sales that are in Virginia.

amount of credit redemptions (\$59.5 million). According to the Department of Taxation, a large number of carryover credits were claimed in FY13.

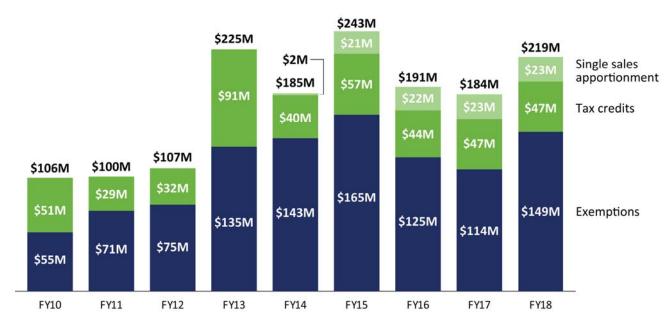


FIGURE 11 Savings to businesses through tax incentives increased (FY10–FY18)

SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: Includes Coalfield Employment Enhancement Tax Credit, which had expired but was reinstated in 2018. Includes single sales apportionment for manufacturers for which an estimate was previously not available. Exempted amounts are estimates and exclude the 1 percent sales tax for localities and the additional amounts collected in Northern Virginia and Hampton Roads. Not adjusted for inflation. The trend is nearly identical if adjusted for inflation.

# Through financing programs, businesses obtained \$43 million in loans and gap funding FY10–FY18

Virginia offers six incentive programs that are designed to assist firms in securing additional debt and equity financing. The Virginia Small Business Financing Authority (VSBFA) administers four programs that provide loan assistance to eligible businesses:

- Economic Development Loan Fund provides loan financing for eligible small businesses that create permanent full-time jobs;
- Loan Guaranty Program assists small businesses to obtain loans by reducing bank credit risk;
- State Cash Collateral Program assists small businesses that lack the necessary collateral to obtain a loan, and
- SWaM Loan Fund provides small loans to small businesses to use for working capital, financing accounts receivable and inventory, and other short-term financing needs.

Venture capital is financing that investors provide to startup companies and small businesses that are believed to have long-term growth potential. Virginia also offers several gap financing programs. The Center for Innovative Technology offers gap funding through its Growth Acceleration Program, which enables technology firms with high growth potential to obtain additional venture capital investment. The Virginia Tourism Corporation administers the Tourism Development Financing Program to large-scale tourism projects. This program was created in 2011 and allows eligible projects to keep a portion of state sales and use taxes that are generated by the project. Six projects have begun receiving state funding.

These financing programs incentivize different types of business activity than the grant programs discussed previously. Over three-quarters of VSBFA assistance was provided to small businesses in services and trade industries. Over three-quarters of Growth Acceleration Program recipients were in professional, scientific, and technical services and information industries, which include businesses in high-tech fields such as biotechnology and software development. In contrast, nearly half of grant funding was for manufacturers.

These financing programs also concentrate awards in different regions than grant programs. Thirteen percent of VSBFA assistance went to projects in non-metropolitan areas, whereas 36 percent of all grant funds went to projects in non-metropolitan areas. Over three-fourths of Growth Acceleration Program assistance went to firms in Northern Virginia, with over 55 percent to Fairfax County companies alone. A large portion of the remaining award amounts were made to firms in localities that are home to the state's major research universities.

# VSBFA programs helped businesses obtain more than \$27 million in loans and loan enhancements

Small businesses aided by the four VSBFA programs obtained \$27.4 million in loan and loan enhancement financing between FY10 and FY18 (Table 10). In most cases, state appropriations were not directly used to finance the loans or provide the obligation to secure the loans. While programs may have received appropriations in the past, they are revolving loan funds, which means they utilize interest and principal payments on old loans to issue new ones, or receive funding from other self-financing programs offered by VSBFA.

The average loan or loan enhancement to secure the loan was \$101,616, but the average varied among the four programs. The Economic Development Loan Fund provided the greatest amount of loan assistance at \$654,673 per project. The SWaM Loan Fund provided the least, at \$20,489 per project.

Loan enhancements include collateral or guaranty assistance provided to a commercial bank to help the business secure a loan.

#### TABLE 10

# VSBFA programs helped businesses secure more than \$27 million in loans or equity financing

Program	Amount awarded	# of projects	Average award	# of jobs	Loan/loan enhancement per job
Economic Development Loan Fund	\$2,618,692	4	\$654,673	284	\$9,221
Loan Guaranty Program	19,302,144	83	232,556	617	31,284
State Cash Collateral Program	1,930,000	8	241,250	132	14,677
SWaM Loan Fund	3,585,598	175	20,489	450	7,968
Total	\$27,436,434	270	\$101,616	1,483	\$18,507

SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: VSBFA programs use only a small portion of state funding to secure loan financing. Jobs reported are expected jobs.

The four programs collectively were expected to add 1,483 jobs. The average loan or loan enhancement assistance per job was \$18,507, on average. This figure is not directly comparable to the average grant award per job (\$4,010) because the cost of the programs to the state represents only a small portion of the total loan and loan enhancement amount. For example, the VSBFA Loan Guaranty Program provides the financial guarantee to secure a loan provided by a private bank on behalf of an eligible business. The program would only be required to obligate funds if an eligible business were to default on its loan. The SWaM loan is a direct loan provided by VSBFA, but funding for the loan is derived from fees from other bond financing provided by VSBFA and not state appropriations.

# Growth Acceleration Program provided businesses a total of \$15.8 million in financing

Recipients of the Growth Acceleration Program financing received \$15.8 million between FY10 and FY18 to attract venture capital investment. This program made awards to 234 projects, for an average award of \$67,325. Program expenditures reached a peak of \$3.5 million in total awards in FY14 but have not exceeded \$2.2 million since then. All 68 of the completed projects in the Growth Acceleration Program met their financing objectives for the period, according to the Center for Innovative Technology. Economic Development Incentives 2019

# **Appendix A: Study mandate**

# 2018-2020 Appropriation Act Passed as Chapter 854 of the Acts Assembly, May 2, 2019

§ 1-11 Item 31 F

F.1. The General Assembly hereby designates the Joint Legislative Audit and Review Commission (JLARC) to conduct, on a continuing basis, a review and evaluation of economic development initiatives and policies and to make such special studies and reports as may be requested by the General Assembly, the House Appropriations Committee, or the Senate Finance Committee.

2. The areas of review and evaluation to be conducted by the Commission shall include, but are not limited to, the following: (i) spending on and performance of individual economic development incentives, including grants, tax preferences, and other assistance; (ii) economic benefits to Virginia of total spending on economic development initiatives at least biennially; (iii) effectiveness, value to taxpayers, and economic benefits to Virginia of individual economic development initiatives on a cycle approved by the Commission; and (iv) design, oversight, and accountability of economic development entities, initiatives, and policies as needed.

3. For the purpose of carrying out its duties under this authority and notwithstanding any contrary provision of law, JLARC shall have the legal authority to access the facilities, employees, information, and records, including confidential information, and the public and executive session meetings and records of the board of VEDP, involved in economic development initiatives and policies for the purpose of carrying out such duties in accordance with the established standards, processes, and practices exercised by JLARC pursuant to its statutory authority. Access shall include the right to attend such meetings for the purpose of carrying out such duties. Any non-disclosure agreement that VEDP enters into on or after July 1, 2016, for the provision of confidential and proprietary information to VEDP by a third party shall require that JLARC also be allowed access to such information for the purposes of carrying out its duties.

4. Notwithstanding the provisions of subsection A or B of § 58.1-3 or any other provision of law, unless prohibited by federal law, an agreement with a federal entity, or a court decree, the Tax Commissioner is authorized to provide to JLARC such tax information as may be necessary to conduct oversight of economic development initiatives and policies.

5. The following records shall be excluded from the provisions of the Virginia Freedom of Information Act (§ 2.2-3700 et seq.), and shall not be disclosed by JLARC:

(a) records provided by a public body as defined in § 2.2-3701, Code of Virginia, to JLARC in connection with its oversight of economic development initiatives and policies, where the records would not be subject to disclosure by the public body providing the records. The public body providing the records to JLARC shall identify the specific portion of the records to be protected and the applicable provision of the Freedom of Information Act or other provision of law that excludes the record or portions thereof from mandatory disclosure.

#### Appendixes

(b) confidential proprietary records provided by private entities pursuant to a promise of confidentiality from JLARC, used by JLARC in connection with its oversight of economic development initiatives and policies where, if such records are made public, the financial interest of the private entity would be adversely affected.

6. By August 15 of each year, the Secretary of Commerce and Trade shall provide to JLARC all information collected pursuant to § 2.2-206.2, Code of Virginia, in a format and manner specified by JLARC to ensure that the final report to be submitted by the Secretary fulfills the intent of the General Assembly and provides the data and evaluation in a meaningful manner for decision-makers.

7. JLARC shall assist the agencies submitting information to the Secretary of Commerce and Trade pursuant to the provisions of § 2.2-206.2, Code of Virginia, to ensure that the agencies work together to effectively develop standard definitions and measures for the data required to be reported and facilitate the development of appropriate unique project identifiers to be used by the impacted agencies.

8. The Chairman of JLARC may appoint a permanent subcommittee to provide guidance and direction for ongoing review and evaluation activities, subject to the full Commission's supervision and such guidelines as the Commission itself may provide.

9. JLARC may employ on a consulting basis such professional or technical experts as may be reasonably necessary for the Commission to fulfill its responsibilities under this authority.

10. All agencies of the Commonwealth shall cooperate as requested by JLARC in the performance of its duties under this authority.

# **Appendix B: Research activities and methods**

JLARC contracted with the University of Virginia's Weldon Cooper Center for Public Service (Weldon Cooper Center) for this review. Key research activities performed by Weldon Cooper Center for this study included

- data collection and analysis,
- estimation of sales and use tax exemptions,
- agency staff interviews, and
- review of documents and research.

# Data collection and analysis

Weldon Cooper Center collected project data from 13 state agencies that administer Virginia economic development incentive programs. Data was provided for grant, tax credit, and loan or gap financing programs that have made awards. Among the data elements collected for the incentive programs were business identifiers, location, industry type, amount of grant approved and paid, and program performance metrics, such as number of jobs created, average wage levels, and capital investment (Table B-1). Some programs, namely the small business loan and tax incentive programs, do not collect performance data or maintain it electronically.

## TABLE B-1 Data and information were collected from 13 state agencies on incentive awards

Agencies	Types of information
Agencies Center for Innovative Technology Dept. of Housing and Community Development Department of Rail and Public Transportation Tobacco Region Revitalization Commission Virginia Department of Agriculture and Consumer Services Virginia Department of Taxation Virginia Department of Transportation Virginia Department of Small Business and Supplier Diversity	Types of informationBusiness identifiers (name, federal tax ID number)IndustryLocation (locality) of projectAmount of incentive approved and paidNumber of jobs promised and created and timingCapital investment promised and delivered and timingAverage wages promised and delivered and timingOther performance metrics as specified
Virginia Economic Development Partnership Virginia Film Office Virginia Port Authority Virginia Small Business Financing Authority Virginia Tourism Corporation	

SOURCE: Weldon Cooper Center.

# Analysis of grant programs

Grant programs were grouped for analysis purposes based on the date/year when awards were approved rather than paid. The approval date represents when a contract between the agency and the business is signed in either a memorandum of understanding or performance agreement. The time period between approval and payment varies widely by program. Some programs make award payments upon approval or soon after. For other programs, payment depends on the business meeting performance goals or other program requirements specified in the agreement and availability of program funding. The most common performance period for Virginia economic incentive programs is three to five years between approval and completion. Customized economic incentive grants, larger business incentives, and infrastructure-related grants typically have longer performance periods because of the significantly larger size and complexity of the projects.

Program expenditures by fiscal year were computed as the funds paid for completed projects and grant funds still committed toward active but unfinished projects. Some programs report program milestones to be included in the report issued by the Secretary of Commerce and Trade pursuant to § 2.2-206.2 of the Code of Virginia. However, milestone information was sometimes found to be incomplete, and the quality of reporting varied by agency and program. Thus, it was not used in computing program expenditures.

Grant program awards and amounts were categorized by location and industry using North American Industrial Classification System (NAICS) codes provided by the agency administering the grant or from information available from the Virginia Employment Commission (VEC). Several agencies did not provide NAICS codes. For these programs, project awards were matched with VEC unit-level ES202 records obtained under a confidentiality agreement with VEC. These grant records were matched with VEC records using firm name, address, and when available, taxpayer identification numbers. In many instances, matches could not be found (1,071 projects and \$212 million in total award amount). This problem was most pronounced for the Enterprise Zone Real Property Investment Grant program, affecting 906 projects or 63 percent of the total projects and \$59 million in total awards for the program. In terms of financial impact, the Tobacco Commission Megasite Grant awards were most significant with \$97 million in unassigned awards. None of the Megasite projects could be classified into a specific industry since they are made at the industrial-park level rather than at the business level.

Thirteen Governor's Motion Picture Opportunity Fund awards for a total award amount of \$6.2 million were also not assigned to localities. The filming activities for these projects occurred in multiple locations throughout the state but principally in Central Virginia.

Grant project records do not systematically include the employment of businesses receiving awards across programs. Employment of the business that received the grant was estimated by matching grant records with VEC ES202 payroll employment records that corresponded to the year of the award. Many companies have more than one location in Virginia, and only the employment levels for the specific location of the business that qualified for the grant were included in the analysis. Project records for FY10 through FY18 were matched by fiscal year of award with the corresponding VEC employment data by calendar year between 2009 and 2017 (i.e., FY18 project records were matched to calendar year 2017 VEC employment records). Using this process, 61 percent of the total number

of awards and 42 percent of the award amounts were accounted for. Since larger establishments were less likely to be represented in the matching process, project awards were weighted to account for the underrepresentation of large awards (and correspondingly large establishments) relative to their occurrence in the grant files to improve the representation of large establishments in the tabulations.

# Analysis of loan programs

For the four loan programs—the Economic Development Loan Fund, Loan Guaranty Program, State Cash Collateral Program, and SWaM Loan Fund—there were no state appropriations for the programs for the FY10–FY18 period. These programs are primarily revolving loan funds or secure funding outside the legislative appropriation process, but some have received state appropriations in the past. Since some programs have relied or continue to rely on federal funding, only those projects that could be attributed to previous state funding were included in this analysis. The costs of the programs were estimated to be the actual or projected defaults.

## Analysis of tax credits

For quantifying the revenue impact of state economic development-related tax credits, Weldon Cooper Center used corporate and individual tax credit files obtained from the Virginia Department of Taxation. These files list tax credit redemptions by fiscal year of utilization based on when the return was processed. (See Virginia Department of Taxation annual report, Table 3.1: Fiscal Year Tax Credits.)

## Incentives excluded from the analysis and report

Several programs did not make awards during the period of analysis (FY10–FY18) and are not included in this report. Two tax incentive programs are relatively new and were not available to businesses during the review period:

- Aircraft Parts, Engines, and Supplies Exemption and the
- Venture Capital Account Subtraction.

One custom grant program is not included in this report because a formal memorandum of understanding has not been filed:

• Pulp, Paper, and Fertilizer Advanced Manufacturing Grant Program.

Three grant programs have been active for over a decade but have not yet funded private business projects:

- Tobacco Commission Agribusiness Grant Program,
- Southside Economic Development Grant Program, and
- Tobacco Commission Southwest Economic Development Grant Program.

Four grant programs made awards that occurred earlier than FY10:

- Aerospace Engine Manufacturing Performance Grant Program (Rolls-Royce),
- Semiconductor Grant Program (Micron),
- Semiconductor Grant Program (Qimonda), and
- SRI custom grant.

Several tax incentives were also not included in this analysis. Information from the Department of Taxation based on individual and corporate tax forms could not be obtained and processed within the time frame for this report. These incentives include

- Data Center Single Sales Factor Apportionment,
- Qualified Business Long-Term Capital Gain Subtraction, and
- Zero G Zero Tax Act Subtractions (Parts I and II).

This report includes program expenditures for three economic development incentive programs that were not included in the 2018 report: GO Virginia, the Virginia Business Ready Site Program, and the Single Sales Factor Apportionment for Manufacturing. The first two programs are new. GO Virginia awarded one industrial site development grant (Wood Haven Water and Sewer) in FY18, while the Virginia Business Ready Site Program provided 11 grants to localities for industrial sites around the state in FY17. Although the Manufacturing Single Sales Apportionment Factor has been in use since 2014, tax expenditure estimates were not available until an intensive review of this incentive was conducted in 2019. (See *Data Center and Manufacturing Incentives*, JLARC, 2019.) Corporate income tax records for the period 2013–2016 were used to estimate the tax impact of the program.

# Estimation of business savings from sales and use tax exemptions

Sales and use exemptions provide relief from sales and use taxes on selected taxable goods and services for businesses in targeted industries. For most exemptions, eligible businesses obtain a sales and use exemption certificate from the Department of Taxation (available online) and present it to merchants at the point of sale to claim the exemption. Neither the merchant nor the purchaser is required to report the tax savings to the Department of Taxation outside of an audit process. Therefore, the size of these tax savings to businesses must be estimated by other means. For other exemptions, such as the data center and pollution control equipment exemptions, the department issues the exemption certificate after approving an application. The business may not have the certificate at the time of eligible purchases and can apply for a refund once the exemption certificate is obtained.

For quantifying forgone revenue because of sales and use tax exemptions, Weldon Cooper Center relied on Department of Taxation fiscal impact estimates and staff-generated estimates based on IMPLAN and other data sources (Table B-2). Department of Taxation estimates are based on a variety of approaches, including industry surveys, industry association tallies, and imputations made from secondary data sources such as federal statistical data. Some estimates rely on sales and use tax exemption estimates published as part of detailed tax expenditure studies conducted by the Department of Taxation in the early- and mid-1990s. More recent estimates are sometimes available when the Department of Taxation issues fiscal impact estimates to inform new General Assembly legislation. Weldon Cooper Center estimates were substituted for Department of Taxation estimates in three different situations:

- if the Department of Taxation estimates were based on much older estimates and credible estimates could be generated using more recent data and alternative methods;
- if Department of Taxation estimates were not available for a specific sales and use tax exemption; and

• if an alternative methodology had practical or conceptual advantages over the Department of Taxation estimates.

Weldon Cooper Center estimates for tax revenue rely primarily on IMPLAN data for Virginia. IMPLAN is a commercial economic impact model produced by MIG, Inc. It is based on input-output analysis, which requires estimates of the value of intermediate input purchase for each industry. The intermediate input purchase estimates for Virginia formed the basis of the relevant sales tax base for sales and use tax revenue impact calculations. Spending on durable and leased good inputs is estimated by multiplying industry output by gross absorption coefficients for IMPLAN commodity sectors 3111-3395 and 3442-3446, using the most recent data for 536 industries and commodities. These coefficients represent the input purchases for various commodities per dollar of output. For example, the construction machinery manufacturing industry spent \$0.00170 per dollar of output on commodity 362 (railroad rolling stock). This absorption coefficient was multiplied by the output of the construction machinery equipment industry for 2015 (\$122,220,940) to obtain the estimated expenditure on this input (\$208,000).

Because the exemptions are sometimes more narrowly targeted than the individual IMPLAN sectors available, supplemental data from EMSI, Virginia Employment Commission, Bureau of Labor Statistics, and Bureau of Transportation Statistics was used to apportion the sector purchases to narrower industry subsets. For example, the airline common carrier exemption is available for air common carriers that provide scheduled service to Virginia airports at least once per week. Eligible purchases were imputed by apportioning IMPLAN input purchase estimates by the percentage of the air transportation industry (NAICS 481) providing scheduled service (NAICS 4811---Scheduled Air Transportation) and apportioning again based on the percentage of scheduled departures performed by airlines that provide service at least once per week based on Bureau of Transportation Statistics T-100 Air Carrier Traffic Segment data.

#### TABLE B-2

Estimates of business savings from sales and use tax exemptions were based on different methods and sources

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	ustry use estimate
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Uniform Rental & Laundry Businesses Exemption IMPLAN, EM	ustry use estimate pact, HB1488 (2004)
Virginia Spaceport Users Exemption TAX fiscal im	pact, HB1488 (2004)

SOURCE: Weldon Cooper Center.

The sectors targeted vary by sales and use tax exemption, as do the categories of purchases that are eligible for exemption. Generally speaking, tangible personal property purchases and leases are covered though the specific items sometimes differ. For instance, the railroad rolling stock exemption gives Virginia manufacturing firms an exemption on purchases of rolling stock. The tax base is determined by aggregating purchases of rolling stock across all Virginia manufacturing industries.

Other adjustments are needed to convert calendar years to fiscal years. IMPLAN purchases are expressed in terms of calendar years; thus fiscal year estimates were calculated by averaging two calendar years (e.g., FY12 is the average of CY11 and CY12). The last calendar year of data available from IMPLAN is 2017. Therefore, FY18 revenue estimates were calculated by inflating the FY17 estimates by the consumer price index (CPI).

#### **Agency interviews**

In 2017, Weldon Cooper Center and JLARC staff conducted structured interviews with state agency staff that administered and/or provided research support for economic development incentive programs. The interviewees included representatives of each of the 13 agencies that administer grants, loans, and gap financing and several staff from the Department of Taxation. Topics included the purpose of each program, criteria used in selecting award recipients and amounts, and data availability and quality for tracking program performance. Additional interviews are only performed as needed, such as when new incentive programs are adopted, programs are substantially changed, or programs are selected as part of an intensive review for that year.

#### **Review of documents and research**

Weldon Cooper Center reviewed several sources of information, including documents, reports, and published or unpublished research. The purpose of this literature review was to understand the purpose and goals of Virginia economic development incentive programs, determine the best approach to quantify the revenue impacts of sales and use tax exemptions, and develop an approach for performance evaluation that draws on best practices from other states. Sources consulted included

- Virginia agency documents that describe economic development incentive program purpose, application requirements, award criteria, and other features;
- Virginia Legislative Information System documents describing grant and sales and use exemption statutes and Department of Taxation fiscal impact estimates;
- State economic development performance evaluations published by state agencies or their consultants in Virginia and other states.

## **Appendix C: Incentive program descriptions**

Seventy-nine economic development incentive programs are subject to this review. These include 32 grant programs, 16 tax credits, 19 tax exemptions, and 12 other programs.

#### Grant programs

Ten state agencies administer 32 economic development incentive grant programs. These programs reflect a variety of economic development goals and often target different activities, including development in disadvantaged regions (Tobacco Region Opportunity Fund and Enterprise Zone grants), transportation enhancements for business expansion and recruitment (Economic Development Access Program, Rail Industrial Access Program, and Transportation Partnership Opportunity Fund grants), and small business development (Small Business Investment Grant Fund and Small Business Jobs Grant Fund Program).

Programs also target particular industries such as agriculture and forestry (Agriculture and Forestry Industries Development Grant), corporate headquarters (Virginia Economic Development Incentive Grant), motion picture production (Governor's Motion Picture Opportunity Fund), and port-related industries (Port of Virginia Economic and Infrastructure Grant).

The state has also created customized grants for individual large industrial attraction and expansion projects, such as Newport News Shipbuilding (Advanced Shipbuilding Training Facility Grant Program and Advanced Shipbuilding Production Facility Grant Program) and Rolls-Royce Corporation (Aerospace Engine Manufacturing Performance Grant Program). The Major Eligible Employer Grant program likewise targets large expansions; so far both Booz Allen Hamilton and Philip Morris have received awards for expanding their state footprints.

Sixty-nine percent of total spending on economic incentive grants over the FY10 to FY18 period was administered by two state agencies, the Virginia Economic Development Partnership and Tobacco Region Revitalization Commission. The Department of Housing and Community Development and Department of Transportation also awarded large portions of total grant funding at 16 percent and 7 percent of the total, respectively.

#### TABLE C-1

#### Thirty-two incentive grant programs are administered by 10 state agencies

State agency/program (year enacted)	Purpose	Description
Center for Innovative Tec	hnology	
Commonwealth Research Commercialization Fund (2011)	Promote high technology economic development through commercialization of promising research and development.	Grants are made on the basis of scientific merit and economic development potential for technology at the proof-of-concept stage or earlier in targeted high- technology industries. Funds must be matched by recipient.

State agency/program (year enacted)	Purpose	Description
Department of Agricultur	e and Consumer Services	
Agriculture and Forestry Industries Development Grant (2012)	Attract new and expanding agriculture and forestry processing value-added facilities that use Virginia-grown products.	Eligible projects must produce value-added agricultural or forestry products that derive at least 30% of agricultural or forestry product inputs from Virginia. Incentive grant requests are made by the host political jurisdiction and must be locally matched.
Department of Small Busi	ness and Supplier Diversity – Virgini	a Small Business Financing Authority
Small Business Investment Grant Fund (2012)	Assist small businesses obtain investment capital.	Grant for equity or subordinated debt investment in eligible small business. Grant amount equals 10% of qualified investments made in small businesses not to exceed \$250,000 per investor.
Small Business Jobs Grant Fund Program (2010)	Support small business job creation and investment.	Grants are made to small businesses in targeted sectors that create at least five full-time positions paying at least 1.35 times the federal minimum wage and making a capital investment of at least \$100,000 within two years. Funding (\$500–\$2,000) per job is based on job characteristics.
Department of Housing a	nd Community Development	
Job Creation Grant (Enterprise Zone) (2005)	Encourage job creation in distressed communities designated as enterprise zones.	Grants are awarded to qualified businesses that create at least four permanent full-time jobs in an enterprise zone. Qualifying jobs must pay at least 1.75 times the federal minimum wage (lowered to 1.5 times for high unemployment areas) and offer health benefits.
Real Property Investment Grant (Enterprise Zone) (2005)	Encourage private investment in distressed communities designated as enterprise zones.	Grants are awarded to investors making qualified investments in industrial, commercial, or mixed-use real property in an enterprise zone. The grant is computed as 20% of the investment amount minus a base investment with a project cap of \$200,000.
GO Virginia (Virginia Growth and Opportunity Fund Grants) (2017)	Promote private-sector business and employment growth through regional cooperation.	The new grant includes FY18 funds allocated to regions on the basis of population and competitive grant funds. Performance parameters of grants are still being developed.
Department of Rail and P	ublic Transportation	
Rail Industrial Access Program (1987)	Encourage construction, reconstruction, or improvement of railroad tracks serving new or expanding industrial sites and divert truck traffic to the freight rail network.	The grant is available to businesses that seek access to a common carrier railroad. Funding is limited to 15% of the business capital investment with a cap of \$450,000. The program evaluates applicants using a project scoring system.

State agency/program (year enacted)	Purpose	Description
Department of Transporta	ation	
Economic Development Access Program (1956)	Encourage construction, improvement, or maintenance of roads serving new or expanding industrial sites.	The grant is made in support of road enhanced access for basic employers that export at least half of output outside state. Award amount is based on value of capital investment by qualifying companies who locate at the economic development site.
Transportation Partnership Opportunity Fund (2006)	Improve transportation access for business development projects.	Grants of up to \$5 million are available to companies that develop transportation facilities, such as on- and off-site road, rail, mass transit or other transportation access improvements. Projects must meet Commonwealth's Opportunity Fund or Virginia Investment Partnership Grant program criteria.
Tobacco Region Revitaliza	ation Commission	
Agribusiness Grant (2002)	Promote agricultural and agribusiness growth, development and diversification in the tobacco region to help the agricultural industry pursue market opportunities and reduce dependence on tobacco and tobacco-related business.	Awards are made to projects likely to generate new income and investment and align with targeted categories such as applied research and education, product processing, livestock and crop demonstration, local foods, multi-purpose agriculture centers, and wholesale/retail cooperatives.
Megasite Grant (2010)	Develop large, business-ready and publicly owned industrial sites across the tobacco region to attract major employer and investment projects.	Megasite funding is only available for the eight sites that have been developed to date with Tobacco Commission support. Megasite projects are defined as those that create at least 400 jobs and \$250 million in private investment.
Southside Economic Development Grant (1999)	Promote economic development in the Southside localities of the Tobacco Region.	Funds are allocated by locality. Awards fall into strategic funding categories identified as important for economic development including infrastructure improvements, workforce training, regional tourism, building industry clusters, and entrepreneurial development.
Southwest Economic Development Grant (1999)	Promote economic development in the Southwest localities of the Tobacco Region.	Awards fall into strategic funding categories identified as important for economic development, including infrastructure improvements, workforce training, regional tourism, building industry clusters, and entrepreneurial development.
Tobacco Region Opportunity Fund (1999)	Attract new jobs and investments for the Tobacco Region through business attraction and expansion.	Grant requests are initiated by the host community. Grant criteria include a minimum private capital investment of \$1 million and 10 jobs created within 36 months. Applications are evaluated using a ROI model with award amounts based on that analysis.

State agency/program (year enacted)	Purpose	Description
Virginia Economic Develo	opment Partnership	
Advanced Shipbuilding Training Facility Grant Program (Newport News) (2011)	Promote the expansion of advanced shipbuilding in Virginia. This customized performance- based grant is used to support the growth of Newport News Shipbuilding in Newport News City.	Incentive payments are based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures include employment, capital investment, and training expenditures.
Advanced Shipbuilding Production Facility Grant Program (Newport News) (2016)	Promote the expansion of advanced shipbuilding in Virginia. This customized performance- based grant is used to support the expansion of Newport News Shipbuilding in Newport News City.	Incentive payments are based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures include employment and capital investment.
Aerospace Engine Manufacturing Performance Grant Program (Rolls-Royce) <i>(2007)</i>	Attract an aerospace engine manufacturer to locate in Virginia. This customized performance- based grant is used to support the growth of the Rolls-Royce turbine plant in Prince George county and industry cluster firms.	Incentive payments are based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures include employment, capital investment, and number of trainees.
Business Ready Sites Program (2016)	Encourage the development of sites and associated infrastructure for industrial and commercial uses as tools for business attraction, retention, and expansion.	Incentive grants consist of two types. Site characterization grants fund site needs assessment. Site development grants fund site development costs. Eligible sites must have at least 100 contiguous, developable acres and meet additional criteria.
Commonwealth's Opportunity Fund (1996)	Attract new businesses and support existing business expansion.	Grant program is discretionary deal closing fund for firms exporting at least half of output outside Virginia. Funds must be matched by host locality and are used for site acquisition and improvement, infrastructure, building construction, and employee training.
Major Eligible Employer Grant (1999)	Attract new or expanding large employers to the state.	The grant is targeted to major employers that make a capital investment of at least \$100 million and create at least 1,000 jobs. This job threshold is reduced if high-paying jobs are created. The grant amount per job ranges from \$500 to \$800.
Pulp, Paper, and Fertilizer Advanced Manufacturing Performance Grant Program (2016)	Promote the expansion of pulp, paper, and fertilizer advanced manufacturing in Virginia. This customized performance-based grant was used to support the location and expansion of Shandong Tranlin, Inc. in Chesterfield County.	Incentive payments based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures include employment and capital investment. Shandong Tranlin ultimately canceled its plans to build its Virginia plant.

37

State agency/program (year enacted)	Purpose	Description
Semiconductor Custom Grant (Micron) Semiconductor Memory or Logic Wafer Manufacturing Performance Grant (2004)	Promote and expand semiconductor product manufacturing. This customized performance-based grant was used to support the expansion of Micron in Manassas.	Incentive payments were based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures included employment and capital investment.
Semiconductor Custom Grant (Qimonda) Semiconductor Memory or Logic Wafer Manufacturing Performance Grant (2004)	Promote and expand semicon- ductor product manufacturing. This customized performance- based grant was used to support the attraction of the now defunct Qimonda semiconductor plant in Henrico County.	Incentive payments were based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures included employment and capital investment.
SRI custom grant (2006)	Promote public-private R&D and commercialization activities to facilitate economic growth. This customized grant is used to support SRI Shenandoah Valley in the establishment of the Center for Advanced Drug Research in Rockingham County.	Incentive payments are based on attainment of performance milestones specified in a performance agreement between the state and the company. Performance measures include employment and capital investment.
Virginia Economic Development Incentive Grant (2005)	Encourage the location of signifi- cant headquarters, administrative, research and development, and basic service companies.	Grants are awarded to eligible companies based on ROI analysis, subject to the governor's approval. Companies must agree to create a minimum number of jobs (200–400) that pay 1.5 times the local prevailing average wage and make a capital investment of \$6,500 per job or more.
Virginia Investment Partnership Grant (1999)	Encourage Virginia manufacturer retention and expansion though new capital investment and R&D.	Grant is targeted to manufacturers that have operated in the state for at least 3 years, will make a capital investment of at least \$25 million, and face high risk of relocating elsewhere. New job creation is not required, but current employment levels must be maintained.
Virginia Jobs Investment Program (1965)	Support private business job creation and worker training and retraining.	Grants are awarded for creating new jobs or upgrading skills for existing workers. Job creation awardees must create at least 25 new jobs and make a capital investment of at least \$1 million (or 5 new jobs and \$100,000 capital investment if a small business.) Retraining awardees must retrain 10 full-time workers and make a capital investment of \$500,000 (or 5 full- time workers and \$100,000 capital investment if a small business.)
Virginia Leaders in Export Trade (VALET) Program (2002)	Help companies expand their markets and encourage the export of products and services to international markets.	The VALET program provides technical assistance, training, and reimbursement for approved expenses to help eligible businesses develop international export markets. Reimbursements of up to \$15,000 per company for approved export-related expenses. Awardees must complete a two-year program.

State agency/program

(year enacted)	Purpose	Description
Virginia Trade Show Assistance Program (2016) Virginia Film Office	Help companies expand their markets and encourage the export of products and services to international markets.	The grant reimburses company trade show attendees for up to \$10,000 of the cost of trade exhibits.
Virgina rinn Once		
Governor's Motion Picture Opportunity Fund (1999)	Support growth of the film and television industries in Virginia.	Grants are awarded to production companies that film in Virginia. Awards are made on a discretionary basis considering project expenditures in Virginia, employment, presence of any local commitment, geographic diversity, and industry or company growth potential in Virginia.
Virginia Port Authority		
Port of Virginia Economic and Infrastructure Development Grant (2014)	Encourage maritime companies to locate or expand to promote the growth of the Port of Virginia.	Grants are awarded to companies in maritime industries that create at least 25 permanent full-time jobs and are involved in maritime commerce or an import/export industry. The award per job is scaled to the number of jobs created.

#### **Tax credits**

Sixteen economic development tax credits are available to eligible applicants when filing income tax forms. The state offers three types of credits: transferable, refundable, and non-refundable and non-transferable. Most economic development tax credits in this report are the latter two types. In most cases, non-refundable and non-transferable tax credits can be credited against a company's tax liability over a designated "carryover" period. For these programs, carryover periods vary from a low of three years to a high of 15 years. Three of the economic development tax credit programs offer refundable credits: Coalfield Employment Enhancement Tax Credit, Motion Picture Production Tax Credit, and Research and Development Expenses Tax Credit. A refundable tax credit allows taxpayers to be reimbursed by the difference between the credit amount and tax liability.

#### TABLE C-2

# Sixteen economic development tax credits are available through the state corporate and individual income tax

Program (year enacted)	Purpose	Description
Barge and Rail Usage Tax Credit (2011)	Encourage use of rail and waterway transportation and decrease Virginia road congestion.	Tax credit for facilities engaged in port-related activities utilizing barge and rail rather than motor transportation. Credit is awarded on basis of amount of increased cargo shipped by barge and rail over previous tax year.
Biodiesel and Green Diesel Fuels Producers Tax Credit (2008)	Promote biodiesel and green diesel production.	Tax credit for biodiesel and green diesel fuel producers making up to 2 million gallons of fuel per year. The credit amount is \$0.01 per gallon but cannot exceed \$5,000 per year.
Coalfield Employment Enhancement Tax Credit (1996)	Encourage production of Virginia metallurgical coal and coalbed methane.	Tax credit for metallurgical coal and coalbed methane producers that is based on mining method and seam thickness.
Farm Wineries and Vineyards Tax Credit (2011)	Promote the growth of the Virginia wine industry.	Tax credit for eligible vineyards and winery qualified expenditures such as equipment and supplies used in winemaking. Credit is 25% of all qualified expenditures.
Green Job Creation Tax Credit (2010)	Promote creation of jobs in renewable and alternative energy industries.	Tax credit for creating green jobs during the taxable year. The credit amount is \$500 per green full-time job created that pays at least \$50,000 per year in wages.
International Trade Facility Tax Credit (2011)	Encourage port-related economic activity by increasing capital investment or new hiring connected to international trade facilities.	Tax credit for international trade facilities that show at least 5% increase in Virginia port shipments. Employee credit is equal to \$3,500 per job. Capital investment credit is equal to 2 percent of capital investment.
Major Business Facility Job Tax Credit (1995)	Promote growth of company headquarters; manufacturing, agricultural, and transportation businesses; and export-oriented service industries such as legal and financial services. Retail industries are excluded.	Tax credit of \$1,000 per job for creation of new, full- time jobs in excess of threshold of 50 jobs or 25 jobs for enterprise zone/economically distressed areas.

Program (year enacted)	Purpose	Description
Major Research and Development Expenses Tax Credit (2016)	Promote research and development activities.	Tax credit for qualified R&D expenses greater than \$5 million. Credit is based on difference between R&D expenses during taxable year and 50% of the average expenses incurred during previous 3 years.
Motion Picture Production Tax Credit (2011)	Encourage motion picture production and use of Virginia resident labor and merchants in production	Tax credit for qualifying expenses of eligible productions that complete a motion picture. Tax credit is equal to 15% of qualifying expenses, with bonus rates for Virginia resident payroll and production in economically distressed areas.
Qualified Equity and Subordinated Debt Investments Tax Credit (1999)	Encourage investment in high-tech small business ventures.	Tax credit for equity or subordinated debt investment in qualified small businesses engaged in technology- related fields. Credit amount is equal to 50% of qualified investments during the taxable year but may not exceed tax liability or \$50,000.
Recyclable Materials Processing Equipment Tax Credit (1991)	Encourage recycling of waste and pollution control.	Tax credit for qualifying purchases of equipment to produce items from recyclable materials. Credit is equal to 20% of the purchase price of the recycling equipment. The allowable credit cannot exceed 40% of tax liability.
Research and Development Expenses Tax Credit (2011)	Promote research and development activities.	Tax credit for qualified R&D expenses. Credit is equal to 15% of first \$300,000 of expenses or 20% if conducted with Virginia higher education. Alternatively, credit may be computed as 10% of difference of expenses and 50% of previous 3-year average.
Telework Expenses Tax Credit (2012)	Encourage telework to ease road congestion.	Tax credit for eligible expenses incurred for permitting employees to telework. Credit was equal to up to \$1,200 per teleworking employee or \$20,000 for conducting a telework assessment. Maximum credit is \$50,000 per employer per year. This credit expired January 1, 2019.
Virginia Coal Production and Employment Incentive Tax Credit (2001)	Encourage use of Virginia coal by Virginia power generators to increase Virginia coal production and employment.	Tax credit for Virginia coal that is both purchased and consumed by Virginia electricity generator. Credit is equal to \$3-per-ton.
Virginia Port Volume Increase Tax Credit (2011)	Promote use of state port facilities.	Tax credit for qualified agricultural, manufacturing, or mining entities that use Virginia port facilities and increase cargo volume by at least 5%. Credit is \$50 per 20-foot equivalent unit.
Worker Retraining Tax Credit (1999)	Encourage worker retraining to improve productivity and employment retention.	Tax credit for training costs of providing eligible worker retraining for qualified employees. The retraining must occur with a pre-designated program such as a noncredit course or apprenticeship. Tax credit is up to 30% of qualified training costs. Modified in 2018 to allow manufacturers that conduct qualifying orientation, instruction, or other programs to claim a credit equal to 35% of the direct cost of the program not to exceed \$2,000 for any year.

#### Sales and use tax exemptions

Nineteen sales and use tax exemptions reduce taxes for eligible firms that purchase or lease selected tangible personal property. Sales and use tax exemptions are generally realized at the point of sale when eligible items are purchased. Eligible firms must complete Department of Taxation forms (Commonwealth of Virginia Sales and Use Tax Certificate of Exemption) and present them to merchants at time of sale. Two exemptions require additional authorization before use. The data center exemption statutorily requires qualifying firms to meet minimum employment, capital investment, and wage requirements and enter into a memorandum of understanding with VEDP. The MOU requires data centers to provide annual reports to VEDP to demonstrate that the minimum requirements were met. Companies using the pollution control equipment and facilities exemption must first obtain certification from a state monitoring agency (i.e., Department of Environmental Quality, Department of Mines, Minerals, and Energy) before applying for the exemption. For these exemptions, the certificate may not have been issued at the time of eligible purchases, but the business can request a refund once the certificate is obtained.

Exemption (year enacted)	Purpose	Description
Airline Common Carriers Exemption (1966)	Encourage commercial airline service to and from Virginia airports.	Tax exemption for tangible personal property sold or leased to an airline operating in intrastate, interstate, or foreign commerce as a common carrier. The airline must provide scheduled air service on a continuing basis to one or more Virginia airports at least one day per week.
Aircraft Parts, Engines, & Supplies Exemption (2018)	Encourage growth of aviation sector, including unscheduled common carriers, private planes, and unmanned aviation systems.	Tax exemption for parts, engines, and supplies used for maintaining, repairing, or reconditioning aircraft.
Certain Printed Materials for Out-of-State Distribution Exemption (1976)	Encourage out-of-state business purchases of printing materials from state firms.	Tax exemption for catalogs, letters, brochures, reports, and similar printed materials, and paper furnished to a printer for fabrication into such printed materials, when stored for 12 months or less in Virginia and distributed outside the state.
Contractor Temporary Storage Exemption (1989)	Promote competitiveness of state construction material supply firms.	Tax exemption for personal property purchased by a contractor for use solely in another state or in a foreign country and temporarily stored in Virginia pending shipment, if such property could be similarly purchased free from sales tax in such other state or foreign country.
Data Center Exemption (2010)	Promote the establishment of large-scale data centers.	Tax exemption for Virginia data centers and tenants meeting certain minimal investment, employment, and wage-level criteria. Exemption is for processing, storage, retrieval, and communication equipment.

#### TABLE C-3 Nineteen sales and use tax exemptions reduce taxes at point of sale

Exemption (year enacted)	Purpose	Description
Electrostatic Duplicators Exemption (1986)	Promote small-scale printing businesses by providing exemption comparable to industrial printers.	Tax exemption for high-speed electrostatic duplicators or any other duplicators having a printing capacity of 4,000 impressions or more per hour purchased or leased by persons engaged primarily in the printing or
Film, Television, & Audio Production Inputs Exemption (1995)	Promote motion picture production and sound recording industries.	Tax exemption for audiovisual works acquired for licensing, distributing, broadcasting, commercially exhibiting, or reproducing, or production services or fabrication connected with such production. The exemption applies to purchases and leasing of tangible personal property.
Media Provider Equipment Exemption (1966)	Promote radio and television broadcasting, cable television, and broadband media industries.	Tax exemption for broadcasting equipment, parts and accessories used by radio, television, cable, and broadband media companies. The exemption also applies to amplification, transmission, and distribution equipment used by cable television systems or other video systems.
Out-of-State Nuclear Facility Repair Exemption (2000)	Promote nuclear maintenance and repair industry by exempting purchases of supplies used for the purpose of providing services to out-of-state buyers.	Tax exemption for tangible personal property purchased for use or consumption in the performance of maintenance and repair services at Nuclear Regulatory Commission-licensed nuclear power plants located outside the state.
Pollution Control Equipment & Facilities Exemption (1972)	Encourage business adoption of pollution control equipment and technologies by reducing capital costs.	Tax exemption for pollution control equipment and facilities used for air and water pollution abatement certified by a state certifying authority.
Railroad Common Carriers Exemption (1978)	Promote maintenance and expansion of state railroads.	Tax exemption for tangible personal property sold or leased to a public service corporation that is a common carrier of property or passengers by railway.
Railroad Rolling Stock Exemption (2007)	Encourage capital investment in railroad rolling stock.	Tax exemption for railroad rolling stock when sold or leased by the manufacturer.
Research & Development Exemption (1966)	Encourage research and develop- ment of new and improved products and processes.	Tax exemption for tangible personal property purchased for use or consumption directly and exclusively in basic research or research and development in the experimental or laboratory sense.
Semiconductor Manufacturers Exemption (2006)	Promote semiconductor manufacturing industry.	Tax exemption for semiconductor cleanrooms or equipment, fuel, and supplies used in the process of designing, developing, manufacturing, or testing semiconductor products or equipment.
Semiconductor Wafers Exemption (2006)	Promote semiconductor manufacturing industry.	Tax exemption for semiconductor wafers for use or consumption by a semiconductor manufacturer.

Exemption (year enacted)	Purpose	Description
Ships & Vessels Exemption (1966)	Promote maritime shipping industries, including commercial ship building, repairing, supplying, and dredging.	Tax exemption for ships or vessels used or to be used exclusively or principally in interstate or foreign commerce. The tax exemption also applies to fuel and supplies for use or consumption aboard ships or vessels plying the high seas, either in intercoastal trade or in foreign commerce.
Taxi Parts & Radios Exemption (1984)	Encourage commercial taxi operations and prevent their further decline.	Tax exemption for parts, tires, meters, and dispatch radios sold or leased to taxicab operators for use in their services.
Uniform Rental & Laundry Businesses Exemption (1980)	Promote the commercial uniform rental industry by providing a tax exemption similar to other industrial manufacturers and processors.	Tax exemption for machinery and tools, supplies and materials used directly in maintaining and preparing textile products for renting or leasing by an industrial processor engaged in commercial leasing or renting of laundered textile products.
Virginia Spaceport Users Exemption (1997)	Promote spaceport operations at facilities owned, leased, or operated by the state and the commercial space industry.	Tax exemption for space facilities and hardware, including inputs, components and supplies such as special fuels, machinery and equipment, and other goods and services for activities undertaken at a Virginia Commercial Space Flight Authority facility.

#### Other incentive programs

Twelve other incentive programs included in this report fall into a "miscellaneous" category. These incentives include tax preferences such as corporate income tax apportionment methods and income tax subtractions as well as gap and loan financing programs that are difficult to classify elsewhere. The latter programs are administered by the Virginia Small Business Financing Authority and the Center for Innovative Technology and are designed to provide alternative funding sources for business startups and established small businesses that face financing constraints. Based on current estimates, the Manufacturing Single Sales Apportionment Factor is the largest of these miscellaneous incentives. The single sales formula allows manufacturers to calculate their taxable income in Virginia based solely on the proportion of total sales that are in Virginia rather than a weighted average of sales, property, and payroll. This creates tax savings for multistate firms that have sizeable operations within the state but ship substantial amounts of products outside the state.

#### TABLE C-4

Twelve other tax incentives	s, loan, and gap financing program	ns target economic development

Program (year enacted)	Purpose	Description
Income tax apportionmen	t methods and subtractions	
Data Center Single Sales Factor Apportionment (2017)	Promote the establishment and growth of data centers.	This tax rule allows eligible multistate corporations that make a capital investment of at least \$150 million in a data center to use the single sales factor method of apportionment to reduce tax liability. Companies that choose to use this apportionment method must enter into an MOU with VEDP.
Manufacturing Single Sales Factor Apportionment (2009)	Incentivize the state's manufacturing industry and slow the decline of manufacturing jobs.	This tax rule allows manufacturing companies to choose single sales factor apportionment to reduce tax liability. Companies must certify that full-time employee average wages are above the state industry average and that employment is at least 90 percent of base-year employment for three years.
Qualified Business Long- Term Capital Gain Subtraction (2010)	Promote high technology business investment.	Tax subtraction for income attributable to an investment in certain high technology businesses that is taxed as long-term capital gain. Qualified businesses must have gross revenues of less than \$3 million and received less than \$3 million in equity or debt investments.
Venture Capital Investment Subtraction (2018)	Promote investment in early- stage companies in Virginia.	Tax subtraction on certain income attributable to an investment in a Virginia venture capital account, which is an investment fund certified by TAX. The account must intend to invest at least 50% of its capital in qualified portfolio companies and employ at least 1 investor with at least 4 years of professional experience in venture capital investment or substantially equivalent experience. A qualified portfolio company has its principal place of business in Virginia; has a primary purpose of production, sale, research, or development of a product or service; and provide equity in the company to the account in exchange for capital investment.

Program (year enacted)	Purpose	Description
Zero G Zero Tax Act (Part I) Subtraction (2009)	Encourage the location and expansion of companies at a Virginia airport or spaceport involved in flying or training humans in suborbital flight.	Tax deduction for gains realized from the sale of launch services to space flight participants or launch services intended to provide individuals the training or experience of a launch, without performing an actual launch.
Zero G Zero Tax Act (Part II) Subtraction (2009)	Encourage the location and expansion of companies at a Virginia spaceport involved in resupplying the space station.	Tax deduction for gains realized from resupply services contracts for delivering payload entered into with the Commercial Orbital Transportation Services division of the National Aeronautics and Space Administration or other space flight entity.
Loan and gap financing pr	ograms	
CIT Gap Funds (2005)	Promote expansion of early stage high-science and technology companies in targeted fields with rapid growth potential.	Seed-stage equity investments in Virginia-based tech- nology, green technology, and life science companies with a high-growth potential. The Center for Innovative Technology holds an ownership position in the company while the company grows operations and value.
Economic Development Loan Fund <i>(2007)</i>	Promote small business job creation and retention by providing gap financing.	Loans are targeted to small businesses in technology, tourism, manufacturing, and services that generate a majority of sales outside the state. Project must create permanent full-time jobs that pay a minimum of \$10 per hour. Maximum loan available is 40% or \$1 million, whichever is less.
Loan Guaranty Program (1985)	Promote small business capital investment.	This program helps small businesses obtain loans by reducing bank credit risk. The maximum guarantee is the lessor of \$750,000 or 75% of the loan amount. The program does not have job creation requirements but considers job creation in financing decisions.
State Cash Collateral Program <i>(2013)</i>	Promote small business capital investment.	This program assists small businesses obtain loans by reducing bank credit risk. The maximum guarantee is the lessor of \$500,000 or 40% of the loan amount. The program does not have job creation requirements but considers job creation in financing decisions.
SWaM Business Microloan Fund (2012)	Promote small, women-owned, and minority-owned business capital investment and expansion.	This fund provides a maximum of \$10,000 to eligible businesses, or \$25,000 if business received counseling from a Small Business Development center. Loans are allocated on a credit score basis. Loans may be used for working capital, financing accounts receivable and inventory, and other purposes.
Tourism Development Financing Program (2012)	Promote tourism and economic development in Virginia.	The program provides gap financing for tourism development projects otherwise unable to access capital. The locality must make application, demonstrate a tourism deficiency, and provide tax incentives or regulatory flexibility for a designated tourism zone where the project occurs.

TABLE D-1 State spending on incentive grant payments (\$ millions)

Incentive	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
Advanced Shipbuilding Training Facility Grant Program (Newport News)	ł	\$32.8	1	1	1	1	1	1		\$32.8M
Advanced Shipbuilding Production Facility Grant Program (Newport News)	ł	1	ł	1	1	ł	1	46.00	0.00	46.0
Aerospace Engine Manufacturing Performance Grant Program (Rolls Royce)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tobacco Commission Agribusiness Grant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agriculture and Forestry Industries Development Grant	1	1	1	1	0.9	0.4	1.0	1.6	0.9	4.9
Virginia Business Ready Sites Program	1	1	ł	ł	ł	ł	!	1.2	0.0	1.2
Commonwealth's Opportunity Fund	3.2	8.7	11.5	7.7	8.7	24.3	25.0	17.7	11.2	118.1
Commonwealth Research Commercialization Fund	1	ł	1.9	2.5	0.9	1.0	1.5	1.3	0.9	10.1
Economic Development Access Program	0.6	2.0	3.4	1.1	2.1	1.3	1.0	4.3	2.5	18.2
GO Virginia	-	}	ł	1	1	ł	!	0.00	0.2	0.2
Governor's Motion Picture Opportunity Fund	0.3	2.1	2.4	0.6	1.7	2.9	12.1	0.8	1.7	24.6
Job Creation Grant (Enterprise Zone)	1.3	2.7	3.0	2.9	2.9	3.1	2.7	1.8	2.2	22.5
Major Eligible Employer Grant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tobacco Commission Megasite Grant	ł	25.0	27.2	21.0	12.8	6.3	0.0	0.0	4.9	97.1
Port of Virginia Economic and Infrastructure Development Grant	ł	1	ł	ł	0.5	0.0	0.3	2.2	0.5	3.5
Pulp, Paper, and Fertilizer Advanced Manufacturing Performance Grant Program	1	1	ł	1	1	!	1	1	1	0.0
Rail Industrial Access Program	0.9	1.5	1.2	0.5	2.1	0.3	0.9	0.0	1.3	8.9
Real Property Investment Grant (Enterprise Zone)	10.6	9.5	11.2	11.2	11.3	9.1	9.3	10.9	10.7	93.7

47

Incentive	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
Semiconductor Custom Grant (Micron)	ł	1	1	1	ł	ł	ł	ł	1	0.0
Semiconductor Custom Grant (Qimonda)	ł	1	ł	ł	ł	ł	ł	ł	ł	0.0
Small Business Investment Grant Fund	ł	1	ł	ł	0.0	0.1	0.2	1.0	0.5	1.9
Small Business Jobs Grant Fund Program	0.0	0.2	0.4	0.8	1.2	0.3	0.0	0.7	0.2	3.8
Southside Economic Development Grants	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southwest Economic Development Grants	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SRI custom grant	ł	ł	1	1	ł	ł	ł	ł	ł	0.0
Tobacco Region Opportunity Fund	8.8	12.2	8.8	16.0	27.4	6.2	9.8	4.2	5.2	98.7
Transportation Partnership Opportunity Fund	0.0	3.3	10.0	10.2	0.7	6.0	3.0	0.0	2.0	35.2
Virginia Economic Development Incentive Grant	0.0	10.0	5.0	0.0	5.0	6.0	0.0	9.3	4.0	39.3
Virginia Investment Partnership Grant	1.1	2.8	2.0	13.4	2.2	10.3	6.7	1.6	4.4	44.3
Virginia Jobs Investment Program	6.7	8.1	5.3	5.6	7.4	4.4	8.9	11.4	9.3	67.1
VALET Program	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.8	3.5
Virginia Trade Show Assistance Program	ł	-	-	-	-	-	-	0.6	0.5	1.1
SOURCE: Weldon Cooper Center analysis of economic development incentives	ent incentive	SS.								

NOTE: Adjusted for canceled projects, recaptures, and award reductions. Not adjusted for inflation. Numbers may not add because of rounding. -- indicates no awards were made by the program in that year, either because they had not been adopted yet or because it was a custom grant that made only a one-time award.

TABLE D-2 Tax savings to businesses because of tax cre	credits (\$ millions)	illions)								
Incentive	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
Barge and Rail Usage Tax Credit	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	\$0.6M
Biodiesel and Green Diesel Fuels Producers Tax Credit	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coalfield Employment Enhancement Tax Credit	44.1	27.3	25.0	21.8	21.5	28.4	23.4	18.9	15.2	225.5
Farm Wineries and Vineyards Tax Credit	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.9
Green Job Creation Tax Credit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
International Trade Facility Tax Credit	0.0	0.0	0.0	0.2	0.2	0.1	0.3	0.3	0.3	1.3
Major Business Facility Job Tax Credit	3.2	-0.9	4.3	2.8	1.3	4.1	0.8	6.8	1.8	24.2
Major Research and Development Tax Credit	:	-	1	;	;	;	-	!	6.1	6.1
Motion Picture Production Tax Credit	0.0	0.0	0.0	0.0	3.0	7.2	5.5	6.6	6.1	28.3
Qualified Equity and Subordinated Debt Investment Tax Credit	1.9	1.6	2.1	1.9	2.4	2.1	2.4	2.2	2.8	19.3
Recyclable Materials Processing Equipment Tax Credit	1.2	0.6	0.7	2.7	1.2	0.6	2.1	1.7	1.4	12.2
Research and Development Expenses Tax Credit	0.0	0.0	0.0	1.5	3.4	4.2	4.7	4.2	4.2	22.2
Telework Expenses Tax Credit	!	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.3
Virginia Coal Production and Employment Incentive Tax Credit	0.4	0.0	0.0	59.4	6.7	8.9	3.1	3.7	6.8	89.1
Virginia Port Volume Increase Tax Credit	0.0	0.0	0.0	0.1	0.4	0.7	0.9	2.2	1.8	6.1
Worker Retraining Tax Credit	0.0	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	1.6
SOURCE: Weldon Cooper Center analysis of the Department of Taxation's Annual Reports for Fiscal Years 2010–2018. NOTE: Crodisc wave claimed for the Biodiacal and Group Diacal Eucle Bacducare Tay Crodit: but amounts wave main Mot adjusted for inflation. Numbers wave add bacaves of	axation's An	nual Reports	for Fiscal Ye	ars 2010–20	18. Minimul	Not adii istos	tor inflatior	- Sheredon		jo osircoq

NOTE: Credits were claimed for the Biodiesel and Green Diesel Fuels Producers Tax Credit, but amounts were very minimal. Not adjusted for inflation. Numbers may not add because of rounding. -- indicates no credits were claimed in that year because they had not been adopted yet.

49

Estimated tax savings to businesses on sales	les and use tax exemptions (\$ millions)	tax exen	nptions (	\$ million	S)					
Incentive	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
Airline Common Carriers Exemption	\$12.0	\$7.1	\$6.7	\$7.8	\$8.6	\$10.7	\$11.6	\$11.2	\$11.4	\$87.0M
Aircraft Parts, Engines, and Supplies Exemption	ł	1	1	ł	ł	ł	ł	1	1	0.0
Certain Printed Materials for Out-of-State Distribution Exemption	3.4	3.5	3.6	3.7	4.0	4.0	4.0	4.1	4.2	34.5
Contractor Temporary Storage Exemption	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.0
Data Center Exemption	3.0	23.1	23.1	76.2	75.0	92.2	53.9	53.6	86.5	486.7
Electrostatic Duplicators Exemption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Film, Television, & Audio Production Inputs Exemption	0.9	1.1	1.1	0.8	0.7	0.8	0.9	6.0	0.9	8.2
Media Provider Equipment Exemption	3.7	3.9	4.0	4.1	4.4	4.5	4.5	4.6	4.7	38.4
Out-of-state Nuclear Facility Repair Exemption	0.4	0.4	0.3	0.4	0.5	0.6	0.6	0.6	0.6	4.4
Pollution Control Equipment & Facilities Exemption	4.0	3.1	2.6	3.1	2.3	4.2	4.1	3.2	3.2	29.8
Railroad Common Carriers Exemption	15.9	17.4	21.0	21.3	24.6	25.7	24.2	17.7	18.1	185.9
Railroad Rolling Stock Exemption	1.3	1.8	2.0	1.9	3.0	5.3	6.1	4.3	4.4	30.0
Research & Development Exemption	3.8	3.9	4.0	4.1	4.5	4.5	4.5	4.6	4.7	38.5
Semiconductor Manufacturers Exemption	0.8	1.1	1.3	1.3	1.2	0.8	0.6	0.6	0.6	8.4
Semiconductor Wafers Exemption	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	1.2
Ships and Vessels Exemption	4.4	3.6	3.6	8.8	12.1	10.1	8.3	7.3	7.5	65.7
Taxi Parts & Radios Exemption	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.8
Uniform Rental & Laundry Businesses Exemption	0.5	0.5	0.5	0.7	0.8	0.9	1.0	1.0	1.0	7.1
Virginia Spaceport Users Exemption	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9
SOURCE: Weldon Cooper Center analysis of economic development incentives.	nent incentiv	es.								

50

ntions (¢ millions) ć uct por pue calac 200 0000 . -4 . TABLE D-3 Ectimated tay NOTE: Exempted amounts exclude the 1 percent sales tax for localities and, in most cases, the additional amounts collected in Northern Virginia and Hampton Roads. Not adjusted for inflation. Numbers may not add because of rounding. -- indicates exemption had not been adopted yet.

TABLE D-4 State spending on other incentives (\$ millions)	s)									
Incentive	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17		Total
Income tax apportionment methods and subtractions										
Data Center single sales factor apportionment	ł	ł	ł	ł	1	1	ł	ł	1	\$0.0M
Manufacturing single sales factor apportionment	ł	ł	ł	ł	1.9	20.9	22.3	22.7	23.3	91.0
Qualified Business Long-Term Capital Gain Subtraction		ž	o data colle	cted; estim	ates will be	calculated	during in-o	No data collected; estimates will be calculated during in-depth review.		
Venture Capital Account Subtraction		ž	o data colle	cted; estim	ates will be	calculated	during in-o	No data collected; estimates will be calculated during in-depth review.		
Zero G Zero Tax Act (Part I) Subtraction		ž	o data colle	cted; estim	ates will be	calculated	during in-o	No data collected; estimates will be calculated during in-depth review.		
Zero G Zero Tax Act (Part II) Subtraction		ž	o data coll€	cted; estim	ates will be	calculated	during in-o	No data collected; estimates will be calculated during in-depth review.		
Loan and gap financing programs										
CIT Gap Fund	0.3	0.4	2.1	2.1	3.5	1.6	1.6	2.0	2.1	15.8
Economic Development Loan Fund	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loan Guaranty Program	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.4
State Cash Collateral Program	-	1	ł	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SWaM Loan Fund	-	1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2
Tourism Development Financing Program	0.0	0.0	0.3	1.3	0.0	8.4	0.0	6.0	0.6	11.5
SOURCE: Weldon Cooper Center analysis of economic development incentives.	int incentives	SS.	-	-				-	-	

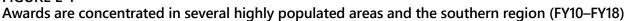
NOTE: Not adjusted for inflation. Virginia Small Business Financing Authority loan program amounts listed are legislative appropriations since these revolving loan program costs are not equal to the loan award amount. -- indicates incentive had not been adopted yet.

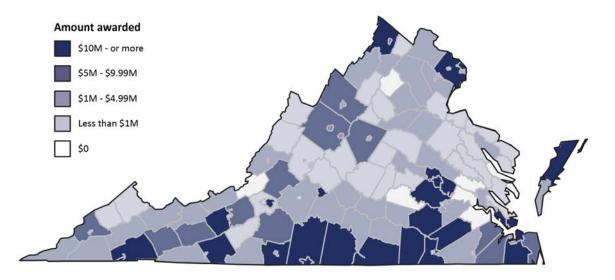
51

# **Appendix E: Regional distribution of grant awards**

The largest amount of grant awards went to highly populated localities such as Newport News, Fairfax County, and Richmond City and to rural localities in the Tobacco Region and on the Eastern Shore (Figure E-1). Adjusted for population size, awards are concentrated in southern and rural localities (Figure E-2).

#### **FIGURE E-1**

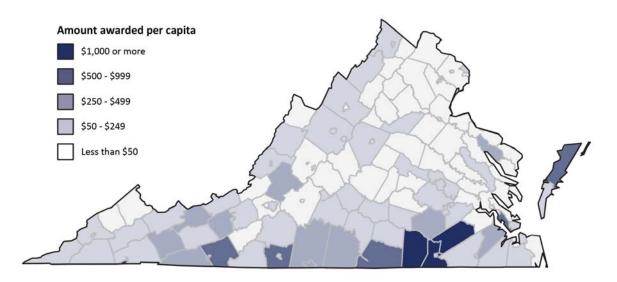




SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: Localities were not assigned to 13 Governor's Motion Picture Opportunity Fund projects because filming occurred in multiple localities.

#### FIGURE E-2 Awards are concentrated in southern and southwestern localities, adjusted for population size (FY10–FY18)



SOURCE: Weldon Cooper Center analysis of economic development incentives.

NOTE: Localities were not assigned to 13 Governor's Motion Picture Opportunity Fund projects because filming occurred in multiple localities.

# Appendix F: Average employment size of grant recipients by program

The average establishment size of a grant recipient was 160 employees across all programs. However, the average size varied widely by program (Figure F-1). The largest average sizes were for the Transportation Partnership Opportunity Fund (1,118 employees), the Virginia Investment Partnership Grant (521), and the Virginia Economic Development Incentive Grant (498). The smallest average employee sizes were for finance programs for startups—the Commonwealth Research Commercialization Fund (four employees) and the Small Business Investment Grant Fund (11).

#### Figure F-1

# Average employment size of business location at time of award varies widely by program (FY10–FY18)



SOURCE: Weldon Cooper Center analysis of economic development incentive grants and VEC data. NOTE: Employment records were matched with 2,705 of the 4,461 awards (61%) and \$358M of \$903M in total awards.

# **Appendix G: Project-specific goals used by grant programs**

Some programs award grants or make award commitments before projects begin. These programs require projects to achieve specific goals to obtain or keep the full award promised. Job creation, capital investment, and average wages paid are the most common goals, but several programs establish other goals that are more aligned with the purpose of the program.

Job creation, average wages, and capit	Job	ent ale m	Capital	benonnance measures
Grant program	creation	Wages	expenditures	Other
Advanced Shipbuilding Production Facility Grant Program (Newport News)	х		х	
Advanced Shipbuilding Training Facility Grant Program (Newport News)	х	х	x	Number of apprentices, training expenses
Aerospace Engine Manufacturing Performance Grant Program (Rolls-Royce)	х	Х	x	
Agriculture and Forestry Industries Development Grant	х	Х	х	Value of Virginia agricultural products
Commonwealth Research Commercialization Fund				Capital attracted from other sources
Commonwealth's Opportunity Fund	Х	Х	X	
Economic Development Access Program			X	
Governor's Motion Picture Opportunity Fund	х			Total Virginia spending, value of advertising
GO Virginia	Х		Х	
Growth Acceleration Program				Capital attracted from other sources
Major Eligible Employer Grant	Х	Х	X	
Port of Virginia Economic & Infrastructure Development Grant	х			Port user
Pulp, Paper, and Fertilizer Advanced Manufacturing Performance Grant Program	х		х	
Rail Industrial Access Program			X	Carloads
Semiconductor Custom Grant (Micron)	Х		Х	
Semiconductor Custom Grant (Qimonda)	Х	Х	Х	
Small Business Investment Grant Fund	Х			Private equity investment
Small Business Jobs Grant Fund Program	Х	Х	Х	
SRI custom grant	Х	Х		
Tobacco Commission Megasite Grant				
Tobacco Region Opportunity Fund	Х	Х	Х	
Transportation Partnership Opportunity Fund	Х		Х	
VALET Program				International sales
Virginia Business Ready Sites Program				
Virginia Economic Development Incentive Grant	Х	Х	X	
Virginia Investment Partnership Grant	Х	Х	X	
Virginia Jobs Investment Program	Х	Х	X	Job retraining
Virginia Trade Show Assistance Program				International sales

#### TABLE G-1 Job creation, average wages, and capital investment are most common performance measures

SOURCE: Weldon Cooper Center analysis of agency documents.

### **Appendix H: Agency responses**

As part of an extensive validation process, the state agencies and other entities that are subject to a JLARC assessment are given the opportunity to comment on an exposure draft of the report. JLARC staff sent an exposure draft of this report to the Virginia Economic Development Partnership, Virginia Department of Taxation, Secretary of Commerce and Trade, and Secretary of Finance.

Appropriate corrections resulting from technical and substantive comments are incorporated in this version of the report. This appendix includes response letters from the Virginia Economic Development Partnership and the Virginia Department of Taxation.



December 9, 2019

Mr. Hal E. Greer, Director Joint Legislative Audit & Review Commission 919 East Main Street, Suite 2101 Richmond, VA 23219

# Re: VEDP response to the draft JLARC report, *Economic Development Incentives 2019: Spending and Performance*

Dear Mr. Greer:

Thank you for providing an opportunity for us to comment on the Joint Legislative Audit & Review Commission's (JLARC's) draft report, *Economic Development Incentives 2019: Spending and Performance.* 

The report provides a helpful overview of economic development incentive spending and performance in the Commonwealth. Among other things, we appreciate your analysis showing that projects that received grant awards between FY10 and FY18 and completed their location or expansion project collectively created an estimated 70,000 jobs and \$14.9 billion in capital investment or other spending in Virginia.

Your report demonstrates the impact of some of VEDP's most important economic development incentive programs. Notably, completed projects that received Virginia Jobs Investment Program (VJIP) grants accounted for the largest share of jobs (45,340) and capital investment and other spending (\$7.2 billion) associated with Virginia's economic development grant programs during this time period. Similarly, projects funded through the Commonwealth's Opportunity Fund (COF) ranked second in job creation (15,320 jobs) and business spending (\$5.0 billion).

Furthermore, Table 7 on page 17 shows that several economic development grant programs collectively outperformed their aggregate performance goals for job creation, spending/investment, and/or the average wage. In particular, the COF program outperformed on all three measures, exceeding its collective total goals on job creation (104% of goal), spending/investment (132%), and average wage (113%). The footnote of that same table indicates that the Virginia Leaders in Export Trade (VALET) program helped participating Virginia companies increase their international sales by 126 percent of their collective goal.

The side bar on page 13 characterizes the effectiveness (or lack thereof) of economic development incentive programs in sweeping terms. In practice, the effectiveness of economic development grant programs in influencing a company location decision varies by program design and amount of incentives offered relative to job creation and investment, among other factors. Some programs are more effective than others. In this context, the reference to the 2012 JLARC report's estimate ("approximately 10 percent of location and expansion decisions, on average, are swayed by typical economic development incentives") suggests considerably more analytical precision than actually exists.

We understand that finding common definitions among different types of incentives for comparison purposes is challenging. However, we think that the definition of VJIP funds spent in Appendix D, Table D-1 (p. 47) would be better represented by the actual funds paid/disbursed during each fiscal year, versus a blend of

Mr. Greer Page 2 of 2

funds paid and projected award amounts reported in the years the funds were awarded. In reality, VJIP has disbursed a total of about \$59 million over FY10 through FY18, averaging about \$6.5 million per year.

As usual, we appreciated the professionalism of JLARC staff during the project, as well as compliment your team on its insightful analysis and reporting.

Sincerely,

Stephen Moret President & CEO



# **COMMONWEALTH of VIRGINIA**

#### Department of Taxation

December 9, 2019

Mr. Hal E. Greer, Director Joint Legislative Audit and Review Commission 919 East Main Street, Suite 2101 Richmond, Virginia 23219 Hal Dear Mr. Greer:

Thank you for the opportunity to review and comment on the exposure draft report: *Economic Development Incentives 2019.* We believe the report is very well done and will be useful to the members of the General Assembly going forward. We also appreciate you incorporating our comments and suggestion into the final report draft.

Thank you again for the opportunity to review the draft report. Should you have any additional questions, please feel free to contact me.

Sincerely raig M. Burns Tax Commissioner

C: The Honorable Aubrey L. Layne, Jr., Secretary of Finance



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 $\tilde{U}(x) = \left\{ c_{1,1}, c_{1,2}, c_{1,2} \right\}$ 

(1) Inside Science, A. B. Berger, A. Banny, Origonitz and Strate Segment Standithm (Science) (Science) (Science and the sciences (1994) (1975) (2004) (1975).

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