

MARCH 15, 2020



**THE RESEARCH & DEVELOPMENT
TAX CREDIT REPORT to the
PENNSYLVANIA GENERAL ASSEMBLY**

Tom Wolf, Governor

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INTRODUCTION

AUTHORIZATION

Act 7 of 1997 created the Pennsylvania Research & Development (R&D) tax credit. The R&D tax credit provision became Article XVII-B of the Tax Reform Code of 1971 (TRC). The intent of the R&D tax credit was to encourage taxpayers to increase R&D expenditures within the Commonwealth in order to enhance economic growth. The terms and concepts used in the calculation of the Commonwealth's R&D tax credit are based on the federal government's R&D tax credit definitions for qualified research expenses.

Act 7 of 1997 authorized the Department of Revenue (Department) to approve up to \$15 million in total tax credits per fiscal year. \$3 million of the \$15 million was set aside for "small businesses," which are defined as a "for-profit corporation, limited liability company, partnership or proprietorship with net book value of assets totaling...less than five million dollars (\$5,000,000)."

APPLICATION

Taxpayers must submit an application to the Department by September 15th to apply for the R&D tax credit. The credit is for qualified Pennsylvania research expenditures made in the taxable year ending in the prior calendar year. The Department has until December 15th to notify taxpayers of their approved tax credit amount.

TAX CREDIT CAP

The current cap of \$55 million, of which \$11 million is set aside for "small" businesses, has been in effect since December 2011. For a history of changes in the cap, see the Legislative Changes page.

TAX CREDIT CALCULATION

The tax credit is calculated using the increase over the taxpayer's base year research expenses for qualified R&D conducted within Pennsylvania. For "not small" businesses, the tentative credit is equal to 10% of the increase in expenses. Since Act 116 of 2006, the tentative credit for "small" businesses is 20% of the increase in expenses.

TAX TYPES

The R&D tax credit may be claimed against the following taxes: the Capital Stock and Franchise Tax (CSFT), the Corporate Net Income Tax (CNIT), and the Personal Income Tax (PIT).

SALE OR ASSIGNMENT

Tax credits awarded in 2003 and later may be sold or assigned. In order to sell an unused credit, the taxpayer must file an application with DCED. The application identifies the seller and the R&D tax credit that it intends to sell, along with the buyer and the amount for which the credit is being sold or assigned. (See Legislative Changes page for more information.)

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LEGISLATIVE CHANGES

TAX CREDIT CAP LEGISLATION

LEGISLATION	AWARD YEARS	TOTAL CREDIT CAP	SMALL BUSINESS SET ASIDE
ACT 7 OF 1997	1997 - 2003	\$15.0 Million	\$3.0 Million
ACT 46 OF 2003	2004 - 2005	\$30.0 Million	\$6.0 Million
ACT 116 OF 2006	2006 - 2008	\$40.0 Million	\$8.0 Million
ACT 48 OF 2009	2009	\$20.0 Million	\$4.0 Million
ACT 48 OF 2009	2010	\$18.0 Million	\$3.6 Million
ACT 26 OF 2011	2011 FORWARD	\$55.0 Million	\$11.0 Million

OTHER LEGISLATIVE CHANGES

ACT 46 - 2003 This act allowed R&D tax credit recipients to apply to the Department of Community and Economic Development (DCED) to sell or assign an R&D tax credit if there has been no claim for allowance filed within one year from the date that the Department approved the credit. The purchaser or assignee must use the newly obtained R&D tax credit in the taxable year in which the purchase or assignment of the credit is made. The purchased or assigned R&D credit cannot be used to offset more than 75% of a tax liability for a taxable year. The purchased or assigned credit cannot be carried over, carried back, resold, or refunded. The provision to sell or assign unused R&D tax credits applies to credits awarded in December 2003 and forward, but the initial sale or assignment could not take place until at least December 2004.

Additionally, this act mandated that the Department report to the General Assembly the names of all taxpayers awarded R&D tax credits in each year starting in 2004. Appendix A at the end of this report lists the name of each taxpayer receiving the R&D tax credit from the Department in December 2017, 2018, and 2019, along with the amount of credit received and utilized.

ACT 48 - 2009 This act removed the one year holding period established by Act 46 of 2003. Credits awarded in 2009 and later can be sold immediately.

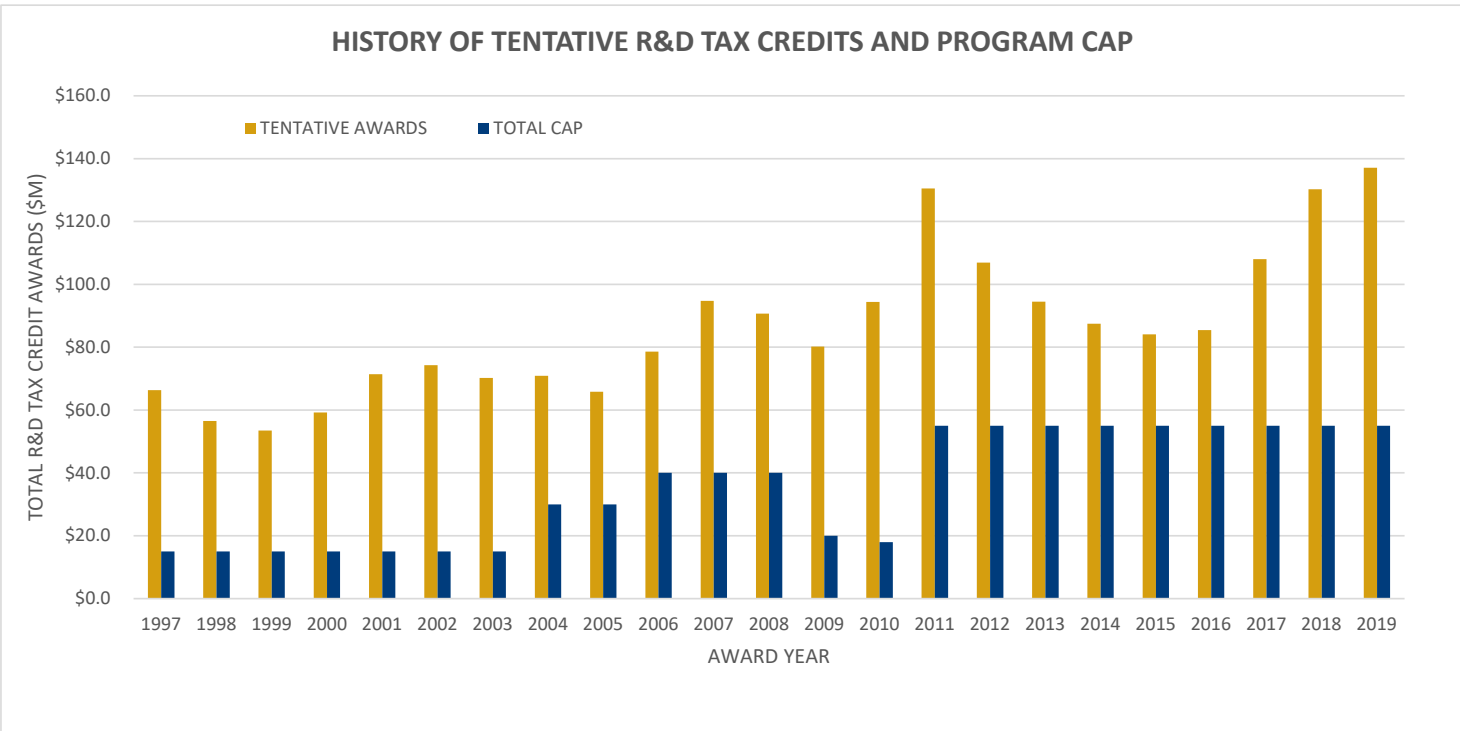
ACT 85 - 2012 This act repealed the sunset date for the R&D tax credit in Section 1712-B of the law, but left the reference to the sunset date in Section 1707-B unchanged.

ACT 85 - 2016 This act repealed the reference to the sunset date in Section 1707-B.

ACT 43 - 2017 This act authorizes the Department of Revenue to perform tax clearances on taxpayers prior to the awarding of a tax credit to ensure all taxpayers are compliant with tax payment and filing obligations.

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TENTATIVE VS. ACTUAL



Without caps on annual awards, \$1,991.4 million in R&D tax credits would have been awarded from the tax credit's inception through December 2019. Actual R&D tax credit awards have totaled \$818.0 million over that timeframe. Over the years, the varying annual credit caps have reduced the amount of R&D tax credit that would have been awarded to 41.1% of what was requested.

Since inception, "small" businesses have received \$134.5 million of the \$173.6 million in tentative R&D tax credits (77.5%). In 9 years of the credit's 23 years of existence, "small" businesses have requested more than the small business set aside including each of the past five years.

Since inception, "not small" businesses have received \$683.5 million of the \$1,817.8 million in tentative R&D tax credits (37.6%).

The table below shows tentative vs. actual credits for December 2019 awards (\$K):

ACTUAL CREDIT RANGE	APPLICANTS	TENTATIVE	ACTUAL	% OF ACTUAL	% OF TENTATIVE
\$0 - \$4.9	262	\$1,417.0	\$634.9	1.2%	44.8%
\$5.0 - \$19.9	365	\$8,512.9	\$3,923.3	7.1%	46.1%
\$20.0 - \$49.9	204	\$14,031.6	\$6,743.2	12.3%	48.1%
\$50.0 - \$99.9	87	\$13,365.0	\$5,892.2	10.7%	44.1%
\$100.0 - \$499.9	64	\$24,734.6	\$10,656.5	19.4%	43.1%
\$500.0 - \$999.9	6	\$11,651.9	\$4,216.9	7.7%	36.2%
\$1,000.0 OR GREATER	7	\$63,367.2	\$22,932.9	41.7%	36.2%
	995	\$137,080.2	\$55,000.0	100.0%	40.1%

Overall, taxpayers received 40.1% of the tentative R&D tax credit awards in December 2019.

The vast majority of taxpayers (98.7%) received less than \$500,000 in R&D tax credits in December 2019. These business received 50.6% of total R&D tax credit awards. Taxpayers receiving \$500,000 or more in R&D credits in December 2019 (1.3% of total applicants) received 49.4% of total R&D awards.

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2019 RECIPIENTS

R&D CREDITS - DECEMBER 2019 (\$M)

BUSINESS TYPE	APPLICANTS	% OF APPLICANTS	TENTATIVE	ACTUAL	% OF ACTUAL
SMALL	419	42.1%	\$15.5	\$11.0	20.0%
NOT SMALL	576	57.9%	\$121.6	\$44.0	80.0%
TOTAL	995	100.0%	\$137.1	\$55.0	100.0%

BUSINESS TYPE	APPLICANTS	% OF APPLICANTS	ACTUAL	% OF ACTUAL
MANUFACTURING	423	42.5%	\$20.9	38.0%
INFORMATION	41	4.1%	\$10.7	19.5%
SERVICES	288	28.9%	\$14.9	27.1%
MISCELLANEOUS	243	24.4%	\$8.5	15.4%
TOTAL	995	100.0%	\$55.0	100.0%

BUSINESS TYPE	2017 CNIT LIABILITY (\$M)
MANUFACTURING	\$11.7
INFORMATION	\$34.6
SERVICES	\$48.6
MISCELLANEOUS	\$14.5
TOTAL	\$109.4

"Small" taxpayers received \$11.0 million in R&D tax credits in December 2019. This is the fifth straight year that "small" taxpayers have requested more than the "small" business set-aside (\$11.0 million). "Small" taxpayers received 71.0% of their tentative award amount.

"Not small" taxpayers received 36.2% of their tentative award amount.

Manufacturers received \$20.9 million of the total \$55.0 million awarded in December 2019. The largest group of recipients in the manufacturing sector were the 12 pharmaceutical and medicine manufacturers, which received \$9.4 million.

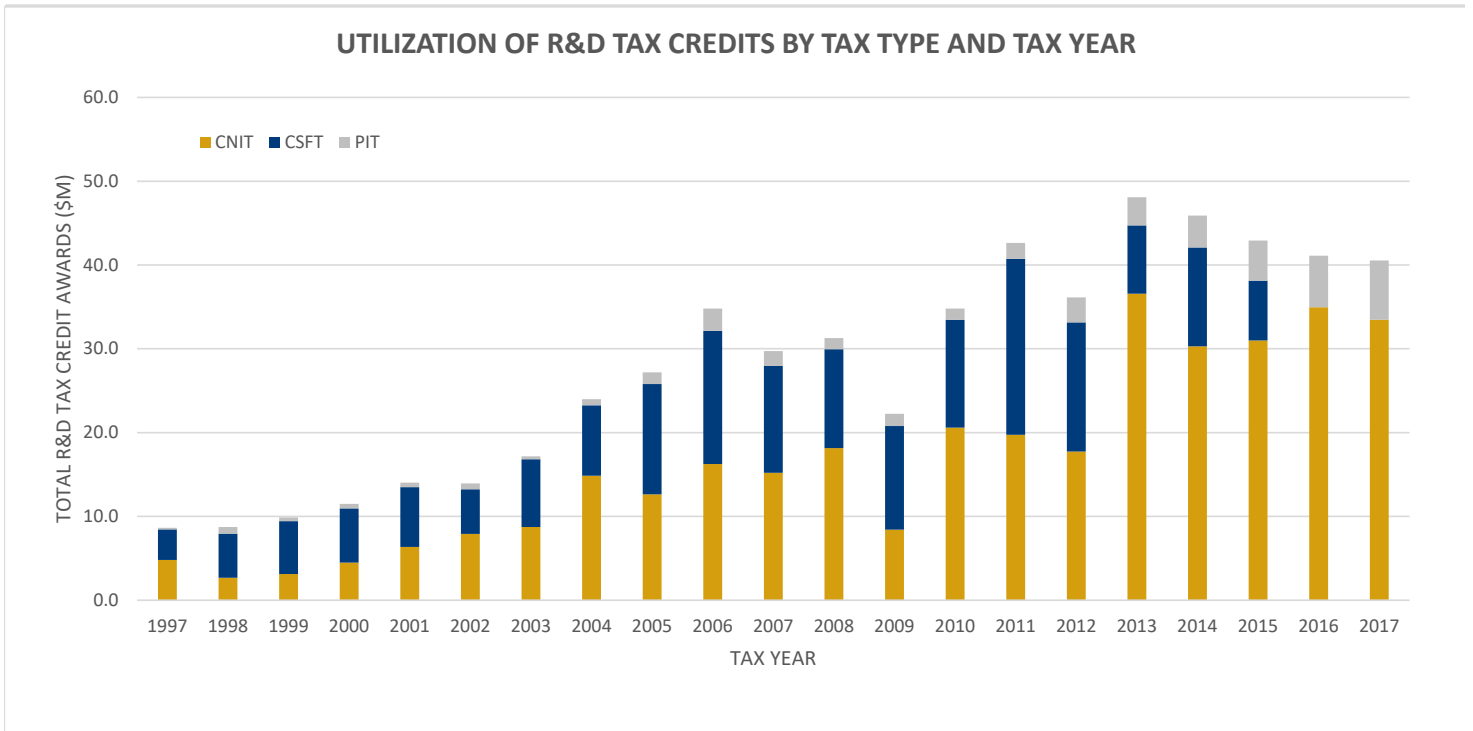
The Information sector received the largest amount of R&D tax credit per recipient - more than \$261,000.

In the Service sector, the largest group of recipients were the 91 computer system designers, which received \$7.4 million.

In order to provide an idea of the relative value of the R&D tax credit to recipients, an analysis was conducted comparing the R&D tax credit awarded in 2019 to the total tax year 2017 self-assessed CNIT, the latest year for which reports are available for all taxpayers. Of the 995 taxpayers receiving the R&D tax credit in 2019 that are subject to the CNIT, their total self-assessed 2017 tax year CNIT totaled \$109.4 million.

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UTILIZATION



The chart above shows the amount of R&D tax credit that has been applied against the Corporate Net Income Tax (CNIT), Capital Stock/Foreign Franchise Tax (CSFT), and the Personal Income Tax (PIT). The figures shown are from taxpayers that have directly received the tax credit from the Department, as well as those taxpayers that have purchased unused R&D tax credits. For PIT, individuals who received the credit directly are included, as are any individual owners of S corporations or limited liability companies (LLCs) who received the pass-through benefit. All credit amounts are as of February 2020.

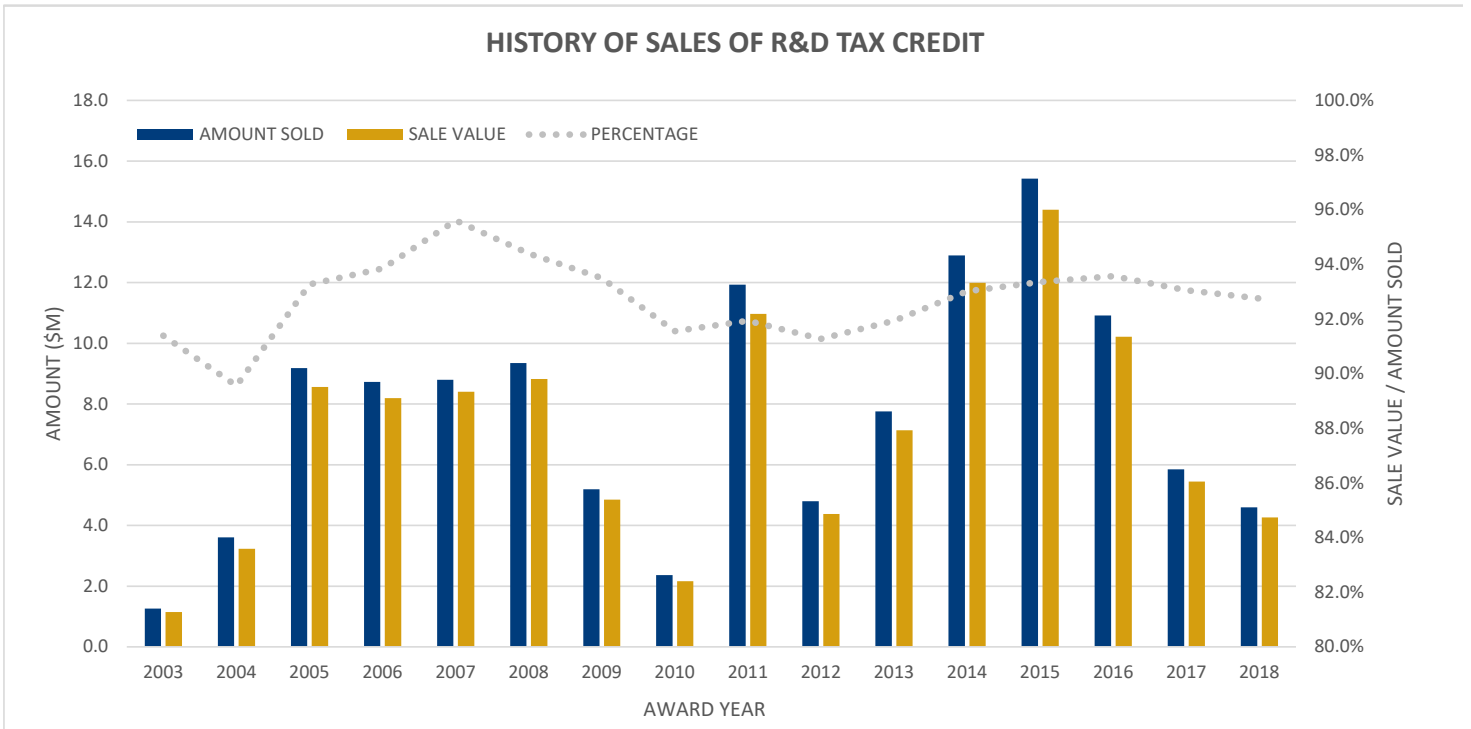
R&D tax credit utilizations by tax type for tax years 1997-2017 (\$M):

TAX TYPE	UTILIZATION	SHARE OF UTILIZATION
CNIT	348.0	59.5%
CSFT	193.0	33.0%
PIT	44.2	7.6%
	585.3	100.0%

Utilizations of \$585.3M represents 82.7% of the total amount awarded between 1997 and 2017.

In the chart above, utilizations of the R&D tax credit against CSFT stop after tax year 2015 because CSFT was repealed for tax year 2016.

Also, it is important to note that the amount of tax credit applied to a particular taxable year can vary over time as a taxpayer's taxable year liability may change due to assessment or the application of other credits.



As noted on the Legislative Changes page, Act 46 of 2003 permits taxpayers with unused R&D tax credits to sell them for cash to other taxpayers who can use them. The earliest that unused R&D tax credits could be sold was December 2004, for credits awarded by the Department in December 2003. Taxpayers can only sell unused amounts of tax credits that exceed any collectible tax liability against which the credit may be offset. S Corporations may not apply to sell or assign any credit that has been passed-through to its shareholders. In order to sell an unused credit, the taxpayer must file an application with DCED. The application identifies the seller and the R&D tax credit that it intends to sell, along with the buyer and the amount for which the credit is being sold or assigned.

The buyer of the unused R&D tax credit can use it to offset up to 75% of a qualified tax liability. The buyer cannot carry forward, carry back, get a refund, or reassign the purchased credit. Further, the buyer must use the purchased tax credit against a qualified tax liability in the taxable year in which it was transferred. Lastly, the buyer must identify to the Department the taxpayer from which they bought the unused tax R&D tax credit.

As of February 2020, \$122.6 million of the \$673.0 million in R&D tax credits awarded between 2003 and 2018 have been sold (18.2%). Taxpayers purchasing the tax credits paid \$114.2 million (93.1% of the value of the credits).

The chart above shows the value of the tax credits sold and the sales price for each award year between 2003 and 2018. The dotted line shows the amount paid for the tax credits divided by the value of the tax credit.

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STATE COMPARISONS

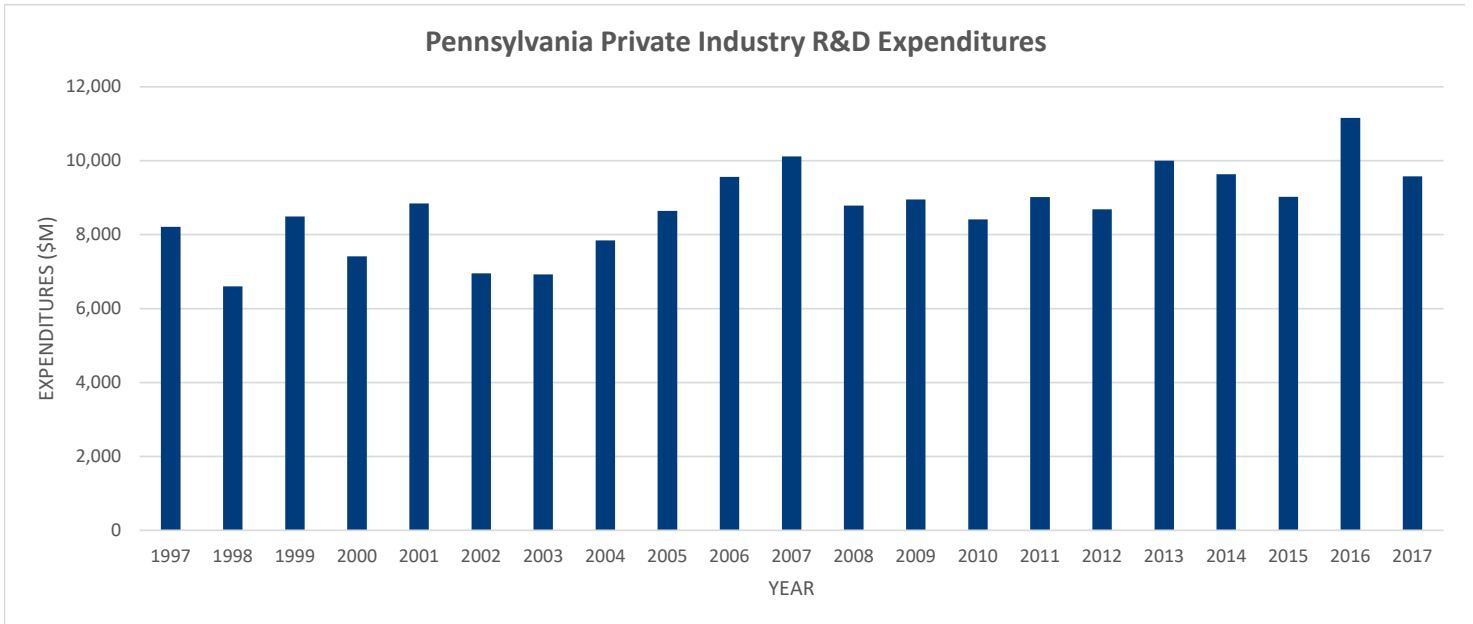
A majority of states have sought to capture the potential benefits of encouraging R&D within their state by enacting an R&D tax credit. There are 41 states, including Pennsylvania, that have provided for R&D tax credits in recent law. Credits are usually applied against either corporate net income (CNIT) tax or the personal income tax (PIT) liabilities, depending on the existing business tax structure of the state. The table below details the R&D tax credit structure of bordering states.

STATE	TAX TYPES	CREDIT CAP
DELAWARE	CNIT & PIT	None
MARYLAND	CNIT & PIT	Total credits for both the Basic R&D tax credit and the Growth R&D tax credit cannot exceed \$12 million per year.
NEW JERSEY	CNIT	None
NEW YORK	CNIT & PIT	Excelsior R&D credits are limited to Excelsior Jobs Program participants and contain multiple credit components. Credit components in the aggregate shall not exceed \$183 million in TY 2020; caps in other tax years vary.
		The Life Sciences R&D tax credit is capped at \$10 million per year. If the tax credits applied for exceed the cap, then the excess credits will be treated as having been applied for in the subsequent year.
OHIO	Commercial Activities Tax & PIT	None
WEST VIRGINIA	No Credit	N/A

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EFFECTIVENESS OF THE PENNSYLVANIA TAX CREDIT PROGRAM

The timeframe for R&D projects in the private sector can be lengthy. It is not uncommon for businesses to have R&D projects extend for 10 to 15 years or more. The Pennsylvania R&D tax credit has thus far had a potential impact on increasing research expenses in twenty-two years, 1997 through 2018. The chart below illustrates Pennsylvania private industry R&D expenditures by year.

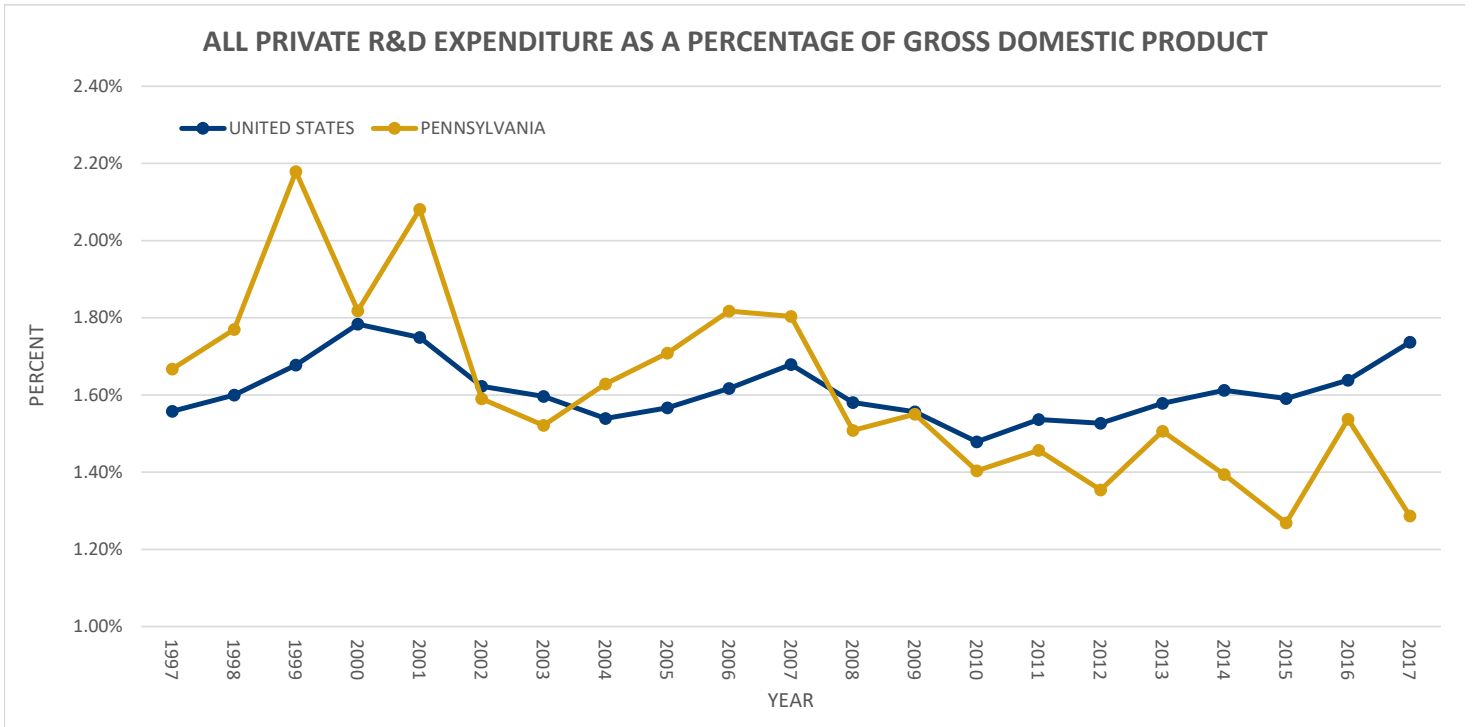


While there is not a study measuring the effects of the R&D tax credit in Pennsylvania, a study released by the Milken Institute in December 2015 could be used to gauge the effectiveness of the R&D tax credit programs in a general sense. The study measures the impact of a proposal to double the existing rate of calculation in the California R&D tax credit from 15 percent to 30 percent of the increase in California R&D expenses over the base year. The report concluded that, in the tenth year after adopting the change, the \$700 million in additional R&D credits would stimulate between \$4.5 billion and \$6.8 billion in additional R&D activity in California, with a multiplier between 6.4 and 9.7. Further, the report found that that, in the tenth year after adopting the change, the gross domestic product (GDP) of California would be higher by between \$7.7 billion and \$10.5 billion, or a maximum of about 0.4% expansion.

Pennsylvania has a very different mix of economic activity from California, and it is unclear that the same conclusions could be drawn relative to the Commonwealth. In fact, in 2017 California was home to \$120.1 billion in private R&D spending, over 1/3 of the US total, and issued between \$1.5 and \$1.6 billion in R&D tax credits. Given that massive difference in R&D infrastructure, it is likely that Pennsylvania is affected differently by research and development incentives in the tax code.

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EFFECTIVENESS OF THE PENNSYLVANIA TAX CREDIT PROGRAM (CONTINUED)



Source: 1997 through 2016 from National Science Foundation, 2017 calculated from NSF and Bureau of Economic Analysis data

As shown in the chart above, the pattern of total R&D expenditure as a percentage of GDP does not conform to the one seen in recent years on the national level. The drop in GDP during the recession does initially inflate the R&D share of the US economy, but once the recovery began in 2010, the R&D share is largely flat and resumes growth after 2015. By contrast the R&D share of the Pennsylvania economy is much more volatile, particularly from 2013 onward. An analysis of this deviation would require more data points, but the expansion of the natural gas industry and related manufacturing in Pennsylvania specifically may be related.

ADMINISTRATION AND EVALUATION

In order to fairly and equitably award credits to businesses within the Commonwealth of Pennsylvania, the Department has taken steps to establish an on-line application process that creates transparency in the application itself, assists with the evaluation of those applicants, and provides insight into the economic benefits of the R&D Credits awarded to those businesses.

Beginning with the 2018 R&D Application, the department created the online application system with each applicant creating a unique User ID and Password. Implementing the R&D Credit online application provided the opportunity to add valuable business rules. These rules can require data entry in certain key fields that if in the past left blank would have resulted in a denial or mail correspondence. The rules also create the opportunity to present only relevant fields to the applicant based on the entry of information, such as after selecting an entity type. Once completed, the applicant receives a unique confirmation number to reference when accessing the application in the future and to identify related correspondence.

The electronic application process provided a mechanism to create a workflow that tracked the status of the application for the taxpayer, indicating whether the application was received, pending, reviewed, approved, or rejected. Once verification of the initial application was complete, the approval process continued confirming that the applicant and/or 20 percent owner was in compliance filing and paying all appropriate tax returns.

As the Department is tasked with the integrity of the application process and credits awarded, the department moved toward a system designed to further substantiate the applicant's PA-Qualified Expenditures, Total Expenditures, Direct Wages, and 3rd Party/Subcontracted Labor. Data analytics were developed and incorporated to group selected applicants based on information from the application and applicant history. Selected applicants were asked to provide records to substantiate areas including that wages were incurred for an employee conducting qualified research and development activities in Pennsylvania.

This review process provides greater assurance that the claimed research and development activities met the statutory qualifications for a tax credit. For the 2019 application process, the department's detailed review of supporting records resulted in an additional \$6.2 million of R&D credits redistributed to other qualified applicants.

Act 43-2017 authorizes the Department of Revenue to perform tax clearances on taxpayers prior to the awarding of a tax credit to ensure all taxpayers are compliant with tax payment and filing obligations.

The two issues for determination are entity tax compliance and ownership tax compliance for entity owners with a 20% or greater share of ownership.

For the R&D tax credit, 10.6% of applicants were deemed noncompliant or ineligible for the credit. Approximately \$1.2 million in liabilities were cleared through either payments, error resolution, credits, or account adjustments. Additionally, over 400 unfiled returns were filed by taxpayers when prompted by Revenue during the compliance process.

The Department recommends that the General Assembly consider the following changes:

Move the due date for the application to December 1 to allow the taxpayer to have completed both state and federal returns.

Move the period in which sales and assignments may be processed by the Department to June 1 following the immediate tax year in which the credit was awarded.

Authorize the Department to require a taxpayer to hire an independent auditor to prepare audited financial statements.

Provide the Department with the authority to audit a taxpayer, business firm, or other recipient of a tax credit, including the purchaser of a tax credit.

Allow the Department to recapture credits in applicable cases.

Standardize due process rights to taxpayers denied tax credits for noncompliance or were subject to recapture within six months of the award date.

Require the brokers to be registered with the Department.

Require taxpayers to file federal Form 6765 with the PA R&D tax credit application to allow the Department to perform reconciliations on eligible expenditures and disallow submission of a pro forma statement only.

Require taxpayers to claim a federal income tax credit to qualify for the state credit.

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APPENDIX A - TAXPAYERS RECEIVING CREDIT IN EITHER DECEMBER 2017, 2018, OR 2019

NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
JANSSEN RESEARCH & DEVELOPMENT LLC	4,769.0	10,024.9	6,841.2	4,769.0	10,024.9
COMCAST HOLDINGS CORPORATION	593.5	389.7	6,466.0	593.5	389.7
UBER TECHNOLOGIES INC	3,114.9	3,354.7	3,486.8	0.0	0.0
GOOGLE LLC	586.1	1,506.9	2,360.8	0.0	0.0
EQT PRODUCTION COMPANY			1,487.1		
BOEING CO		567.4	1,247.1		567.4
CSLB HOLDINGS, INC	129.1	270.6	1,044.0	129.1	0.0
INTEL AMERICAS INC	1,768.0	1,241.7	945.6	473.9	295.8
MERCK SHARP & DOHME CORP		402.3	773.8		0.0
SAP AMERICA INC	560.9	853.7	719.9	560.9	853.7
SEI GLOBAL SERVICES INC	984.1	897.0	655.1	0.0	0.0
ARGO AI, LLC		109.5	592.3		0.0
ANSYS INC	84.0	548.6	530.2	84.0	548.6
IMMUNOCORE LLC			384.0		
TYBER MEDICAL LLC		59.5	347.8		0.0
MANITOWOC COMPANY INC		24.6	330.2		24.6
IQVIA INC		239.0	309.1		0.0
CERNER CORPORATION	141.0	150.8	268.0	141.0	150.8
SEAKEEPER INC		6.4	267.3		6.4
VELICEPT THERAPEUTICS INC	73.8	70.5	233.2	0.0	0.0
CARLISLE FLUID TECHNOLOGIES INC		135.7	231.2		135.7
ELI LILLY & COMPANY		579.3	221.8		0.0
DEACOM INC	40.7	128.0	215.8	40.7	0.0
HOLTEC INTERNATIONAL POWER DIVISION, INC	47.2	181.5	211.5	0.0	0.0
FUJIREBIO DIAGNOSTICS INC	126.5	117.5	210.7	24.5	26.0
DOW CHEMICAL COMPANY	21.8	52.1	206.7	0.0	0.0
NXGN MANAGEMENT LLC	5.2	244.2	194.3	0.0	0.0
ALLEGHENY PAPER SHREDDERS CORPORATION			192.4		
AESYNT INC			189.7		
COVESTRO LLC	213.2	105.7	188.7	213.2	105.7
JANSSEN BIOTECH INC	721.0	501.4	184.5	721.0	501.4
EXELON CORPORATION			179.7		
PETUUM INC			175.8		
DUOLINGO INC	5.4	121.1	175.3	5.4	121.1
FACEBOOK INC		121.1	174.6		121.1
CHONDRIAL THERAPEUTICS INC		94.2	170.2		94.2
COMMUNICATIONS TEST DESIGN INC	117.2	219.8	168.9	117.2	0.0
WEBPAGEFX INC	58.3	131.2	166.1	58.3	111.0
BAYER HEALTHCARE LLC	851.3	447.5	165.7	851.3	0.0
RHOADS INDUSTRIES, INC			160.6		
MATERIALS RESEARCH AND DESIGN, INC		87.7	159.8		0.0
GECKO ROBOTICS INC		32.1	158.5		32.1
ZOLL MANUFACTURING CORP	137.5	173.7	154.8	137.5	0.0
AGGREGATES EQUIPMENT INC		114.2	151.9		0.0
AURORA INNOVATION INC		116.7	151.6		0.0
CISCO SYSTEMS INC	931.1	167.5	145.1	0.0	0.0
GLOBUS MEDICAL INC	161.6	113.9	143.5	161.6	113.9
INTEL CORPORATION			143.0		

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APPENDIX A - TAXPAYERS RECEIVING CREDIT IN EITHER DECEMBER 2017, 2018, OR 2019

NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
QORTEK INC	30.0	62.5	140.4	15.7	11.0
VEEDER ROOT COMPANY			138.5		
LEHIGH CEMENT COMPANY LLC		113.2	138.4		0.0
BIOMEME INC	34.4	96.1	137.3	0.0	0.3
LUNGPACER MEDICAL USA INC			136.9		
TMNA SERVICES, LLC	100.8	140.2	134.1	100.8	0.0
BIMBO BAKERIES USA,INC		117.5	133.0		0.0
JAZZ PHARMACEUTICALS INC	83.4	28.5	132.1	83.4	28.5
EAST PENN MANUFACTURING CO	32.4	15.3	131.4	32.4	0.0
PROCESS COMBUSTION CORP	116.5	133.9	130.8	0.0	0.0
ANALYTICAL GRAPHICS INC	91.5	65.2	130.6	4.5	4.5
PLASTEK INDUSTRIES INC	80.9	35.9	129.0	80.9	35.9
CJL ENGINEERING INC		149.0	128.7		129.6
INFINERA CORPORATION	155.2	55.1	122.3	0.0	0.0
INNOVU LLC	56.1	124.8	122.1	56.1	124.8
FARMERS PRIDE INC		62.7	120.7		0.0
VENATORX PHARMACEUTICALS INC	11.8		119.7	0.0	
SHIRE HUMAN GENETIC THERAPIES INC	160.1	148.5	117.4	160.1	148.5
JOHN BEAN TECHNOLOGIES CORP	228.6	141.6	115.9	22.9	0.0
PRIMETALS TECHNOLOGIES USA LLC	112.7	86.2	115.7	83.1	86.2
BAE SYSTEMS LAND & ARMAMENTS INC			114.4		
AUGUSTINE DIE & MOLD INC			110.7		
PRODUCTION SYSTEMS ACQUISITION CO LLC			110.2		
TRI R SALES INC			106.6		
PINNACLE 21 LLC	35.8	19.4	103.8	35.8	0.0
ADVANCED TECHNOLOGY SERVICES GROUP LLC	79.8	189.3	102.4	79.8	0.0
SENSOR NETWORKS INC		12.4	100.6		12.4
ARMSTRONG WORLD INDUSTRIES INC		198.2	100.2		78.0
NUIX NORTH AMERICA INC	129.8		100.1	1.3	
COGNITION THERAPEUTICS INC	86.4		97.3	86.4	
GUIDEWIRE SOFTWARE INC			96.8		
ENERSYS DELAWARE INC		6.7	93.2		0.0
KCF TECHNOLOGIES, INC	28.4	74.2	92.1	28.4	0.0
CMT LABORATORIES INC	11.7	34.2	91.5	11.7	34.2
ADC THERAPEUTICS AMERICA INC	41.5	57.8	91.4	0.0	0.0
BURNS ENGINEERING INC			91.0		
IMMUNOME INC	83.6	61.3	91.0	0.0	0.0
EASTMAN CHEMICAL RESINS INC	179.3		89.3	179.3	
LISTRAK INC	94.7	77.4	88.7	91.8	77.4
MEI INC			87.8		
TRADEMARK VISION USA LLC	11.1	27.4	86.6	11.1	0.0
SIGMAPHARM LABORATORIES LLC	64.8	42.4	85.6	0.0	0.0
HEFNER MACHINE & TOOL, INC	6.0	29.2	84.8	6.0	0.0
SRC SOLUTIONS INC		104.3	83.2		104.3
NVIDIA CORPORATION	41.4	77.1	83.1	0.0	0.0
BPI HOLDING GROUP, LLC			81.7		
NABRIVA THERAPEUTICS US, INC	76.7	73.5	81.0	0.0	0.0
HERAEUS INC	68.0	40.3	80.9	6.4	27.4

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
AUTO SOFT INC	39.9	98.0	80.5	39.9	0.0
KROLL BOND RATING AGENCY, INC		49.2	78.8		0.0
INNOVATIVE SYSTEMS INC	11.9	24.8	77.5	0.0	0.0
REACTION BIOLOGY CORPORATION			75.2		
J D ECKMAN INC	93.3	100.5	74.3	0.0	100.5
JEANNETTE SHADE AND NOVELTY COMPANY	15.9	32.8	74.3	7.9	23.0
PRINTFLY CORPORATION	73.0	61.8	74.2	73.0	0.0
STRONG INDUSTRIES, INC			73.8		
ARAMARK SERVICES INC		33.3	73.8		0.0
NET HEALTH SYSTEMS INC	71.7	102.0	73.3	0.0	8.9
INTERACTIVE LIQUID LLC	75.0	38.4	73.0	75.0	0.0
SNIPI INC		32.5	72.8		32.5
WEST PHARMACEUTICAL SERVICES INC			72.2		
MORGAN, LEWIS & BOCKIUS LLP		65.4	71.8		0.0
LEGAL SIFTER, INC	27.4	47.4	70.9	27.4	0.0
COMPLEXA INC	27.4	178.2	69.5	27.4	178.2
VINCENT PAYMENT SOLUTIONS, INC			69.3		
BARRY ISETT & ASSOCIATES INC	13.6	11.8	69.0	9.1	11.8
YELP INC		9.2	68.5		9.2
HARBOR BUSINESS COMPLIANCE CORPORATION	16.4	40.7	68.2	16.4	0.0
BOHLER ENGINEERING PA LLC	52.1	78.0	68.2	0.0	0.0
ATHENA GLOBAL ADVISORS, INC	3.7	17.8	68.1	3.7	17.8
PROMPTWORKS, LLC			65.4		
ANSALDO STS USA INC		81.5	65.3		81.5
SEEGRID OPERATING CORPORATION	74.8	50.1	65.3	7.2	0.0
CMW HOLDCO INC	64.2	20.8	64.7	0.0	0.1
GRANUM AI LLC			63.7		
SOUTHCO INC			63.0		
ADVERTISING SPECIALTY INSTITUTE INC	96.8	76.1	62.5	0.0	0.0
PPG INDUSTRIES INC			62.4		
MOLECULAR DEVICES LLC	41.6	35.5	62.2	0.0	0.0
PHILLY SHIPYARD INC	378.6	1,546.7	61.9	378.6	1,546.7
HOUWZER LLC	12.9	37.9	61.2	12.9	37.9
GASBARRE PRODUCTS INC			61.2		
FENIX GROUP INTERNATIONAL, LLC		42.2	60.7		0.0
STREAMLIGHT INC	85.2		60.0	0.0	
FIBROCELL SCIENCE INC	70.3	75.9	59.3	70.3	0.0
BLUE MOUNTAIN QUALITY RESOURCES INC		52.8	59.0		0.0
ELSEVIER INC			58.8		
ST MARYS TOOL & DIE CO INC	24.5	43.1	58.6	24.5	43.1
EXCEL HEALTH LLC		34.6	58.4		0.0
JAVAN ENGINEERING INC	86.9	250.7	58.3	66.6	0.0
MAVEN MACHINES, INC		43.6	57.6		0.0
ARKEMA INC		123.2	57.0		123.2
PRIDE MOBILITY PRODUCTS CORPORATION	20.4	46.8	56.7	20.4	0.0
ADOBE SYSTEMS INC	18.3	10.1	55.9	18.3	0.0
PSI PUMPING SOLUTIONS, INC		3.5	55.7		0.0
FOREST DEVICES, INC	7.5	19.7	55.7	7.5	19.7

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
II VI INC	32.7	66.2	55.3	0.0	0.0
LIFE SUPPORT INTERNATIONAL INC			55.2		
WAGMAN, INC & SUBSIDIARIES	31.1	27.8	55.2	0.0	0.0
AEROTECH INC	30.0	37.2	55.0	30.0	37.2
VICTAULIC COMPANY	142.8	130.1	54.0	142.8	130.1
AVERY DENNISON CORPORATION	91.7	81.4	53.7	0.0	0.0
MANLEY HOLDINGS INC	57.2		53.2	42.5	
LARSON TEXTS INC	47.0	40.6	53.2	47.0	0.0
PHONETICS INC	12.3	65.4	52.9	11.3	65.4
JUST PLAY PRODUCTS LLC	106.8	70.5	51.8	106.8	0.0
CONFLUENCE TECHNOLOGIES INC	48.8	24.9	51.5	3.0	21.9
ADEPT GROUP HOLDINGS LLC			51.2		
JOHNSRUD & ASSOCIATES ARCHITECTS, LLC			51.1		
APPLIED CONTROL ENGINEERING, INC		53.8	51.0		53.8
FOOT LOCKER CORPORATE SERVICES INC		37.1	51.0		37.1
PREMIER AUTOMATION HOLDINGS INC	1.4	30.9	50.9	1.4	0.0
KNOPP BIOSCIENCES LLC		90.7	50.5		90.7
INTERSTATE HOLDING INC		43.3	50.5		0.0
UNION CARBIDE CORPORATION		5.6	50.3		5.6
GWYNEDD MANUFACTURING INC		52.1	50.1		0.0
ELMAGIN CAPITAL, LLC			49.6		
DATA CAP SYSTEMS INC	150.2	263.2	49.5	150.2	0.0
APPLIED SYSTEMS ASSOCS INC	29.5	63.7	49.3	29.5	20.3
JOHN R BROMILEY COMPANY INC	29.5	20.6	49.3	29.5	20.6
UNIVERSAL MACHINE CO OF POTTSTOWN INC			49.3		
PBM, INC	6.0	36.1	49.3	6.0	0.0
JETPACK WORKFLOW INC			49.2		
KRAMER-MARKS, PC			48.7		
ADVENT DESIGN CORPORATION	35.0	46.9	48.1	0.0	0.0
NEWLINK GENETICS CORPORATION	26.7		48.0	26.7	
STP INVESTMENT SERVICES LLC	27.1		47.9	0.0	
RS ENERGY GROUP, INC		30.5	47.6		0.0
KRYSTAL BIOTECH INC		81.1	47.6		0.0
GRAYBILL MACHINES INC	17.8		47.4	9.0	
AMUNEAL MANUFACTURING CORP	26.6	33.2	47.3	26.6	0.0
SHUMAKER INDUSTRIES INC		36.5	46.9		0.0
GRIFFITH CONSULTING LLC		65.7	46.6		0.0
MATRIX PDM ENGINEERING, INC	100.7	89.9	46.5	0.0	0.0
ASTROBOTIC TECHNOLOGY INC	6.2	40.6	46.5	0.0	0.0
CONTROLS SERVICE & ENGINEERING COMPANY			46.2		
CERTAINTED CORPORATION	10.5	49.2	46.1	10.5	49.2
VISTAR MEDIA INC			45.8		
ATLANTIS TECHNOLOGIES LLC			45.7		
ATOMIC DESIGN INC	0.3	35.3	45.5	0.0	0.0
KAARTA, INC		21.9	45.4		21.9
CHANNELAPE INC		28.2	45.3		28.2
CAMCO MANUFACTURING, INC		6.7	45.3		0.0
GURU TECHNOLOGIES INC	21.8	23.0	45.0	21.8	0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
ZYNERBA PHARMACEUTICALS INC		27.7	44.9		0.0
CHEMIMAGE CORPORATION		42.1	44.8		0.0
RADIAN GUARANTY INC	112.2	35.2	44.8	112.2	0.0
MEBIAS DISCOVERY INC			44.4		
COOK MYOSITE INC	18.7	41.1	44.3	0.0	0.0
SMS GROUP INC			43.9		
NCC AUTOMATED SYSTEMS INC	54.7	44.2	43.9	54.7	44.2
RECRO PHARMA INC	112.6	97.4	43.7	0.0	0.0
SJ CONSULTING GROUP INC	16.4	20.7	43.6	16.4	0.0
TRUMBULL CORPORATION	152.1	23.6	43.3	152.1	0.0
TRI-STATE TECHNOLOGY PROFESSIONALS INC	93.2	76.1	43.1	93.2	76.1
THE OTT GROUP, INC	17.7	39.6	42.5	0.0	0.0
CLEMENS FAMILY CORPORATION			42.2		
MICHELMAN STEEL ENTERPRISES LLC	40.1	48.4	42.0	40.1	48.4
INTACT VASCULAR INC	76.7	36.7	41.9	76.7	0.0
CORIELL LIFE SCIENCES, INC		6.9	41.7		0.0
ARROW INTERNATIONAL INC	62.6	52.3	41.5	62.6	52.3
SOLID STATE CERAMICS INC	10.8	1.1	41.4	0.0	0.0
ARCCA INC	10.0	6.0	41.4	10.0	6.0
FLOWMETRIC DIAGNOSTICS, INC	11.9	39.8	41.4	0.0	39.8
ERIE AVIATION INC		25.4	41.3		0.0
MULTI COLOR CORPORATION	6.2	7.8	41.1	0.0	0.0
AVERY DENNISON RETAIL INFORMATION		15.2	41.1		15.1
LANCONNECT INC	25.7	33.1	40.9	25.7	0.0
ACCUDYN PRODUCTS INC	26.5	76.8	40.7	26.5	76.5
DRUG PLASTICS & GLASS CO INC	13.0	39.9	40.6	0.0	0.0
AUGUSTINE PLASTICS INC			40.3		
AAYUNA INC			39.6		
KS TOOLING, INC	7.3	91.3	39.5	0.0	0.0
M & S CENTERLESS GRINDING INC	5.3	26.8	39.4	5.3	0.0
TITUS COMPANY			39.1		
TALEN ENERGY SUPPLY LLC			39.1		
RED HAT INC		24.6	38.9		24.6
NEUROFLOW, LLC		12.0	38.9		0.0
INFRASCAN INC	2.7		38.7	0.0	
LEIDOS, INC	33.0		38.7	33.0	
STARN TOOL & MANUFACTURING COMPANY		5.5	38.5		0.0
DMLOGIC, LLC	1.3	9.5	38.3	0.0	0.0
MENASHA CORPORATION		28.9	38.2		28.9
LEAGUESIDE		16.8	38.1		16.8
CITIZENDEVELOPER COM LLC			37.9		
PRIMEPAY LLC	23.9	26.1	37.4	23.9	0.0
CHANNELLOCK INC		10.4	37.2		0.0
PHYTOGENX INC	65.6	39.8	37.2	65.6	0.0
PHL COLLECTIVE LLC	5.4	25.7	37.0	5.4	0.0
AIRVIZ INC	13.8	30.5	36.8	0.0	0.0
DIETZ & WATSON INC	55.3		36.4	55.3	
SUBURBAN TOOL & DIE CO INC	31.3		36.3	31.3	

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
TORCHLIGHT TECHNOLOGY GROUP LLC			36.3		
ADVANCED POWDER PRODUCTS INC	11.6		36.0	11.6	
IKOS HOLDINGS INC		18.3	35.7		18.3
SAY PLASTICS INC	14.0	27.9	35.5	14.0	27.9
BURKHARDT SHEET METAL COMPANY INC	4.1	17.2	35.5	4.1	0.0
SOPHIA 1, INC			35.2		
GO2POWER LLC	9.1	25.3	35.1	0.0	0.0
COMPREHENSIVE FIRE TECHNOLOGIES	22.2	44.5	34.9	22.2	0.0
SCRUB DADDY INC	36.6	18.4	34.8	0.0	18.3
NALCO COMPANY LLC	33.1	9.3	34.7	0.0	0.0
TIGHT ROCK SOLUTIONS, LLC			34.5		
GLOBIN SOLUTIONS INC			34.5		
CIVI BIOPHARMA INC			34.5		
PAYPAL INC		32.8	34.3		0.0
KEYSTONE BIOANALYTICAL, INC			34.2		
X-NAV TECHNOLOGIES LLC			34.1		
BAINBRIDGE HEALTH INC		20.2	34.1		20.2
CRYOCONCEPTS LP	10.7	7.4	34.0	10.7	0.0
COGNISTIC LLC			33.7		
LUCAS SYSTEMS INC	40.2	31.3	33.7	40.2	0.0
CORE BUSINESS SOLUTIONS INC			33.5		
HEBI ROBOTICS INC			33.4		
GATEWAY TICKETING SYSTEMS INC		0.6	33.4		0.6
CONTAINER RESEARCH CORPORATION			33.2		
TUBE METHODS, INC	1.9	19.7	33.0	0.0	0.0
COATING & CONVERTING TECHNOLOGIES	79.6		32.5	79.6	
AUTOMATED FINANCIAL SYSTEMS, INC	69.5	45.3	31.6	69.5	0.0
SYNERGETIC SOUNDS, INC			31.6		
PRO SHOPKEEPER COMPUTER SOFTWARE COMPANY		25.4	31.6		25.4
CALIBER THERAPEUTICS INC			31.6		
V. T. GRAPHICS, INC	17.4	27.7	31.5	17.4	0.0
INDOVINA ASSOCIATES ARCHITECTS			31.3		
GRAYBILLS TOOL & DIE INC	11.5	73.3	31.2	11.5	69.3
PENN ENGINEERING & MANUFACTURING CORP	12.3	27.2	30.9	1.1	20.1
ROBERT BOSCH LLC	8.9	19.4	30.9	0.0	0.0
KUHN TOOL & DIE CO	10.9	44.7	30.8	10.9	23.5
SIEMENS PRODUCT LIFECYCLE MANAGEMENT	33.7	23.0	30.3	33.7	0.0
CLEVELAND PRICE INC			30.2		
GAP HOLDING COMPANY INC	15.8	30.3	29.9	11.0	0.0
GSM INDUSTRIAL INC		30.2	29.9		0.0
DOMTAR CORPORATION		196.0	29.9		196.0
MOBILE OUTFITTERS LLC (CURIO HOLDING CO)	8.5	10.0	29.9	8.5	0.0
PENN METAL STAMPING INC		18.0	29.5		0.0
B & H INDUSTRIES INC		22.5	29.3		0.0
GENERAL DYNAMICS MISSION SYSTEMS INC	57.4	37.6	28.9	57.4	37.6
CREEHAN & COMPANY CORPORATION			28.8		
ABBOTT ACQUISITION COMPANY, LLC	27.0	39.0	28.7	27.0	0.0
CADENCE INC		26.5	28.5		0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
OCUGEN INC	19.4	30.4	28.5	0.0	0.0
KRAEMER TEXTILES INC		20.4	28.5		20.4
E B ENDRES, INC		11.8	28.4		0.0
PENDU MANUFACTURING INC		95.5	28.1		43.2
PRINT MAIL SOLUTIONS INC	14.0	19.4	27.9	14.0	0.0
VIPER NETWORK SYSTEMS LLC	11.6	22.1	27.9	11.6	22.1
ELECTRO-TECH SYSTEMS INC	8.7	29.7	27.7	8.7	29.7
SHARP EDGE LABS INC	15.7	20.4	27.6	15.7	20.4
ANHOLT TECHNOLOGIES INC	37.3	33.5	27.5	37.3	33.5
VERTEX INC	33.9	42.0	27.4	33.9	0.0
SUSQUEHANNA CIVIL INC			27.3		
UNITED PARCEL SERVICE INC	12.8	11.0	27.3	12.8	11.0
REYNOLDS & REYNOLDS ELECTRONICS INC	32.6	15.9	27.0	29.0	0.0
FOX CHASE CHEMICAL DIVERSITY CENTER INC			26.8		
LEARNING SCIENCES INTERNATIONAL LLC	27.3	21.5	26.8	0.0	21.5
ARIEL PRECISION MEDICINE INC		16.6	26.7		16.6
BSEG LLC			26.5		
AKAS TEX LLC	8.4	15.3	26.5	8.4	0.0
ESAB GROUP INC			26.4		
CONTROL ANALYTICS INC			26.1		
ULTRAGENYX PHARMACEUTICAL INC	17.8	21.7	26.0	0.0	0.0
CERNOSTICS INC			26.0		
AEVI GENOMIC MEDICINE, INC		135.6	25.5		135.6
ADVANCED SIMULATION TECHNOLOGY INC		24.6	25.5		24.6
AQUATECH INTERNATIONAL LLC		9.3	25.2		0.0
AREA TOOL & MANUFACTURING INC			25.0		
AFP ADVANCED FOOD PRODUCTS LLC	45.8	28.7	24.5	45.8	28.7
GALERA THERAPEUTICS INC	22.4	22.1	24.4	0.0	0.0
HENRY MOLDED PRODUCTS INC	5.2	3.6	24.4	5.2	0.0
COBHAM ADVANCED ELECTRONIC SOLUTIONS INC		0.5	24.2		0.0
KINSLEY CONSTRUCTION INC	76.1	82.9	24.0	76.1	82.9
LSC DESIGN INC	8.4	9.6	24.0	8.4	9.6
THRIVE COMMERCE LLC	15.5	2.1	23.9	15.5	2.1
CORLE BUILDING SYSTEMS INC	27.6	18.4	23.8	27.6	0.0
NETBEEZ, INC	6.0	15.3	23.7	0.0	0.0
BIOSPECTRA INC	21.2	22.6	23.7	21.2	0.0
I I-VI OPTOELECTRONIC DEVICES INC			23.7		
KOMATSU MINING CORP		187.2	23.7		115.3
INGMAR MEDICAL LTD	13.9	33.5	23.6	13.9	33.5
SENTINEL PROCESS SYSTEMS INC			23.6		
INSTINCT SCIENCE LLC		11.9	23.5		11.9
ORTHOS ENTERPRISES INC	13.8	19.8	23.5	13.8	19.8
NIVO1, LLC			23.5		
SOFTERWARE INC	41.4	21.7	23.4	41.4	21.7
INTERVALA, LLC		22.7	23.4		0.0
HUBERT C JASINSKI DENTAL LABORATORY INC	9.1	37.0	23.2	9.1	37.0
PRIMBIO RESEARCH INSTITUTE LLC	17.6	10.0	23.1	17.6	10.0
LYCERA CORP	46.7	37.7	23.1	0.0	0.0

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	2017	2018	2019	2017	2018
DISCOVERY ROBOTICS CORPORATION			23.0		
G-P PANEL PRODUCTS LLC			22.8		
R & D COATINGS, INC	10.7	22.6	22.8	10.7	0.0
DRUMMOND SCIENTIFIC COMPANY	11.4		22.4	11.4	
NUTEC TOOLING SYSTEMS INC	98.2		22.4	34.0	
ACUTECH PRECISION AEROSPACE, INC	24.5	16.2	22.3	24.5	0.0
CURAVI, INC		56.9	22.2		56.9
THOMPSONS CANDLE CO	12.8	5.8	22.2	6.7	0.0
NUTRISYSTEM INC	40.3	20.1	22.1	40.3	20.1
FOLLETT LLC	64.9	36.8	22.0	64.9	36.8
GREYGH, INC			22.0		
I2R NANOWAVE INC		27.7	21.9		0.0
JETSPRING LLC		1.4	21.8		0.0
APOLLO NEUROSCIENCE INC			21.8		
AMPHENOL INTERCON SYSTEMS INC		13.5	21.8		6.1
INNOVATIVE SINTERED METALS, INC	10.3	12.4	21.7	10.3	0.0
ERIE CUSTOM COMPUTER APPLICATIONS INC	16.4	28.2	21.6	16.4	28.2
ADVANCED COOLING TECHNOLOGIES INC	66.0	27.2	21.5	66.0	27.2
ONCOCEUTICS INC	56.4	108.8	21.4	56.4	108.8
CORAZON INC		7.9	21.3		0.0
PHILADELPHIA PROTECTION BUREAU INC		0.8	21.0		0.0
TRAFFICCAST INTERNATIONAL INC		10.0	20.9		0.0
WECREATE LLC	5.8	11.3	20.8	5.8	11.3
KANE INNOVATIONS INC		11.0	20.7		0.0
KELLER GROUP, INC			20.7		
AMPHENOL THEMOMETRICS, INC	33.4	29.0	20.6	33.4	29.0
ARRAY ARCHITECTS, INC			20.5		
TENEX TECHNOLOGIES, LLC			20.4		
ROBOTWITS LLC	6.0	4.9	20.4	6.0	0.0
PENN STATE CONSTRUCTION, J&D, LLC	7.1	4.7	20.3	7.1	0.0
VENANGO STEEL INC			20.2		
TURN 14 DISTRIBUTION INC	31.1	24.2	20.2	31.1	0.0
R M PALMER COMPANY	16.9	18.6	20.0	0.0	0.0
DIGITAL GRAPES LLC			20.0		
SYNERGY MEDIA GROUP LLC			19.9		
GETTLE INC	89.6	41.6	19.9	89.6	41.6
ARROW ELECTRIC INC	8.2	20.1	19.8	8.2	0.0
CLINICAL RESEARCH ASSOCIATES OF CENTRAL	11.3	17.5	19.7	11.3	0.0
NEUXCELL THERAPEUTICS INC			19.6		
REMCOR INC			19.5		
CARRIER CLASS GREEN INFRASTRUCTURE LLC	5.1	14.7	19.4	0.0	0.0
LIGHTHOUSE ELECTRIC COMPANY INC		30.8	19.3		0.0
PULSE TECHNOLOGIES, INC	42.5	32.2	19.3	42.5	0.0
INFIANA USA INC	29.4	24.4	19.3	29.4	24.4
AE DESIGN INC		8.7	19.2		8.7
ENSINGER INC		18.8	19.1		18.8
HYDAC TECHNOLOGY CORPORATION			19.0		
AVANCEON LP		22.9	18.9		22.9

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
SOCIAL STATION LLC		16.2	18.9		0.0
NICHOLSON CONSTRUCTION COMPANY	2.6		18.9	0.0	
GRANT STREET GROUP INC	3.7	6.9	18.9	0.0	0.0
PSENERGY, LLC	3.6	7.1	18.8	0.0	0.0
QUIRE LLC	9.1	12.5	18.7	0.0	0.0
A T & T SERVICES INC	85.2	32.4	18.7	85.2	32.4
IMS TECHNOLOGY SERVICES INC		22.1	18.5		22.0
CAMPUS ESP INC			18.5		
DIAMOND KINETICS, INC	18.5	18.6	18.5	18.5	18.6
ADVANCED GLASS & METAL, LLC			18.4		
LAMINAR FLOW INC		19.5	18.4		19.5
TURN 5, INC		12.6	18.4		0.0
HOLCIM US INC			18.3		
POCKET EXPERT LLC	1.4	8.0	18.2	1.4	0.0
ONEX INC	6.5	44.9	18.2	6.5	0.0
ADVANSIX INC		5.7	18.0		0.0
PROTECS LLC			18.0		
INTERNATIONAL CHEMICAL COMPANY	26.5	39.0	17.9	2.5	1.0
BOSCH REXROTH CORPORATION	14.4	31.6	17.9	14.4	31.6
DOBIL LABORATORIES INC		10.3	17.9		0.0
PYROTECHNICS MANAGEMENT INC	6.7	7.6	17.8	6.7	7.6
US SPECIALTY FORMULATIONS LLC	23.2	32.5	17.8	0.0	0.0
TELETRACKING TECHNOLOGIES INC	60.0	11.1	17.6	0.0	0.0
PROGENY SYSTEMS CORPORATION	19.2	14.8	17.6	0.0	0.0
RETURN LOGIC, INC	7.0	8.3	17.6	7.0	8.3
HANOVER FOODS CORPORATION		6.0	17.5		0.0
BELLEFIELD SYSTEMS, LLC		0.3	17.5		0.0
COLORCON INC		14.6	17.3		14.6
NUVENTIVE LLC	2.9	14.4	17.3	2.9	0.0
INVESTEDGE INC	9.7		17.2	0.0	
LANDSTUDIES, INC		37.0	17.1		37.0
BIO MED SCIENCES INC	8.3	10.8	17.1	2.4	10.0
SUPERIOR PLASTIC PRODUCTS INC	17.0	5.8	17.1	17.0	0.0
PRECISION MEDICAL INC		18.2	17.1		18.2
CUSTOM PROCESSING SERVICES INC	4.1	14.8	17.0	4.1	0.0
PROTECTIVE INDUSTRIES INC			16.9		
LINDY PAVING INC	78.0	19.3	16.8	78.0	0.0
CAPSEN ROBOTICS INC	7.4	26.6	16.8	7.4	26.6
T MOBILE USA INC	4.2	13.1	16.6	4.2	13.1
CRESCENT INDUSTRIES INC	31.3	36.5	16.5	0.0	0.0
A T & T MOBILITY SERVICES LLC	21.4	18.5	16.4	21.4	0.0
JOHNSTON MECHANICAL, LLC	5.5	12.0	16.3	5.5	0.0
OMEGA SYSTEMS CONSULTANTS INC		3.5	16.2		0.0
TRIGON INC	21.0		16.2	0.0	
MICHAEL F RONCA & SONS INC		20.2	16.0		20.2
BENTLEY SYSTEMS INC	73.7	21.1	16.0	18.7	21.1
GFS HOLDING CORP & SUBSIDIARIES			15.8		
ANDRITZ INC	36.1	22.3	15.7	36.1	22.3

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
MASCARO CONSTRUCTION COMPANY LP	74.6		15.7	0.0	
TOUCHTOWN INC	4.8	6.2	15.7	4.8	0.0
FLEXICON INC			15.4		
SPECIALTY TIRES OF AMERICA(PENNSYLVANIA)		15.6	15.4		15.6
KEYSTONE MACHINERY CORPORATION	18.7	14.3	15.4	12.8	0.0
ASSET MAP LLC	5.6	15.7	15.3	5.6	0.0
CRAZY AARON ENTERPRISES INC			15.3		
FORNEY LP	10.9	17.6	15.2	10.9	17.6
ENERGYCAP INC	12.6	51.4	15.1	12.6	51.4
CUMMINS ALLISON CORP	3.9	4.7	15.1	3.9	4.7
JAREX ENTERPRISES, LLC			15.0		
PROVIDENCE ENGINEERING CORPORATION		15.0	15.0		0.0
CLARK ASSOCIATES INC	19.7	9.8	15.0	19.7	9.8
J R PETERS INC	18.1	14.3	14.9	18.1	0.0
RKI APPS LLC	10.8	12.4	14.9	10.8	12.4
MAVERICK DENTAL SOLUTIONS			14.8		
VOCI TECHNOLOGIES INC		15.1	14.4		0.0
L & H SIGNS INC		55.3	14.4		0.0
AMETEK INC			14.3		
BENCHMARK CONSTRUCTION COMPANY INC	1.9	20.1	14.3	0.0	0.0
PHILADELPHIA D & M INC	21.1	16.4	14.2	21.1	0.0
BIG B MANUFACTURING INC			14.2		
FIBER-LINE INVESTMENT LLC		2.2	13.8		0.0
PREMIER DENTAL PRODUCTS COMPANY	23.0	12.4	13.8	23.0	0.0
REFLEXION INTERACTIVE TEHNOLOGIES, LLC			13.7		
GODSHALLS QUALITY MEATS INC	12.0	15.3	13.5	12.0	15.3
BIRDBRAIN TECHNOLOGIES LLC	4.8	9.4	13.4	4.8	9.3
LIBERTY ELECTRONICS INC			13.4		
LAMINATORS INC	13.5	10.4	13.3	13.5	10.4
PARA COAT TECHNOLOGIES INC	2.6	3.2	13.3	1.1	0.0
MARTINS FAMOUS PASTRY SHOPPE INC			13.2		
AMERICAN TURNED PRODUCTS		9.9	13.1		0.0
APTER INDUSTRIES INC	6.3	10.1	13.1	6.3	10.1
SIGNATURE DOOR INC			13.0		
BLACK KNIGHT FINANCIAL SERVICES INC			13.0		
MASON JARS COMPANY	2.3	11.6	12.9	2.3	0.0
WELLINGTON POWER CORPORATION			12.9		
KLEINSCHMIDT ASSOCIATES INC		10.7	12.9		0.4
CUSTOM METAL FABRICATING, INC	3.1	16.7	12.7	3.1	0.0
RJC MANUFACTURING SERVICES LLC			12.6		
VEGAN TREATS INC			12.5		
MEDCRYPT INC			12.5		
QUADGEN WIRELESS SOLUTIONS INC	9.8		12.5	9.8	
REXMET CORPORATION			12.4		
HAROLD BECK & SONS INC		3.6	12.4		0.0
GRAVIC INC			12.4		
ROCKLAND, INC	25.5	18.6	12.3	25.5	0.0
X CELL TOOL & MOLD INC	98.5	29.6	12.2	98.5	29.6

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
KOPPERS INC			12.2		
XACT METAL, INC			12.2		
SOLUTIA INC			12.2		
ECOTECH, INC			12.2		
SILVERTIP INC	14.5	11.9	12.1	14.5	11.9
J BAUR MACHINING INC	4.7	10.4	12.1	4.7	10.4
FINISH TECH CORP			12.0		
TRACEY MECHANICAL INC	12.3	11.5	12.0	12.3	11.5
TRACK 5 MEDIA LLC	22.2	27.9	12.0	22.2	0.0
BLUE AVIONICS INC			12.0		
CENERO LLC		29.2	12.0		29.2
CREATIVE MULTIMEDIA SOLUTIONS LLC		8.9	11.9		0.0
DOUBLE H PLASTICS INC			11.9		
RICHARDS ENERGY GROUP INC	5.4	14.5	11.9	5.4	0.0
TIRED HANDS BREWING COMPANY		28.6	11.9		28.6
HOWDEN NORTH AMERICA INC			11.8		
TL LIGHTING HOLDINGS, LLC		7.4	11.8		0.0
PROJECT EXECUTION NETWORK	12.5	9.8	11.7	12.5	0.0
STOLTZFUS STRUCTURES LLC			11.7		
HINDLE POWER INC	46.1	38.1	11.7	46.1	38.1
UNITED PARCEL SERVICE GENERAL SERVICES	1.6	5.9	11.6	0.0	0.0
GAI TRONCIS CORPORATION			11.6		
OPTOFLUIDICS INC			11.6		
J J WHITE INC		8.5	11.5		8.5
PIANO SOFTWARE INC			11.4		
SPICES INC		8.6	11.4		0.0
ONCOURSE SYSTEMS FOR EDUCATION, LLC		16.5	11.3		0.0
BORE TECH INC	5.8	4.4	11.3	0.0	0.0
CMC ENERGY SERVICES INC			11.3		
MEEKER HOLDING COMPANY INC	12.7	7.5	11.3	12.7	0.0
LEANFM TECHNOLOGIES, INC			11.2		
CHIRAL TECHNOLOGIES INC			11.2		
ATKIN OLSHIN SCHADE ARCHITECTS INC			11.1		
BCL MANUFACTURING INC			11.1		
JANDM FLUIDICS INC			11.0		
PROCESS APPLICATIONS LIMITED			11.0		
COME READY FOODS LLC		12.9	10.9		0.0
HANNA TRANSFER COMPANY NORTH	1.2	10.0	10.9	1.2	10.0
DESMONE & ASSOCIATES INC		23.0	10.9		0.0
D T DAVIS ENTERPRISES LTD	168.4	37.1	10.9	60.1	37.1
BETTS INDUSTRIES INC		6.6	10.9		6.6
THERM OMEGA TECH INC	47.4	14.2	10.9	0.0	0.0
KEMPER EQUIPMENT INC	15.5	19.2	10.9	15.5	0.0
CASUAL LIVING UNLIMITED LLC		5.6	10.9		0.0
METAPHASE TECHNOLOGIES INC	16.3	3.7	10.8	0.0	0.0
PENN AIR & HYDRAULICS CORP	14.1	9.0	10.8	14.1	0.0
S & W RACE CARS & COMPONENTS INC	1.4		10.8	0.0	
ITRCO LP	10.6	18.4	10.8	10.6	0.0

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	2017	2018	2019	2017	2018
ENCLARA PHARMACIA	11.2	18.0	10.8	11.2	18.0
HARRY J LAWALL & SON INC			10.8		
WARFEL CONSTRUCTION COMPANY			10.8		
MINE VISION SYSTEMS INC	27.0	30.0	10.7	27.0	30.0
HENRY H OTTENS MANUFACTURING CO INC		15.5	10.7		15.5
CRIMEWATCH TECHNOLOGIES INC		9.5	10.5		9.5
TYNDALE ENTERPRISES INC	27.2	30.3	10.5	27.2	0.0
VASTEX INTERNATIONAL INC	18.8	23.0	10.4	18.8	0.0
C360 TECHNOLOGIES INC		17.5	10.4		0.0
MALLET & COMPANY INC		2.0	10.3		2.0
SS INDUSTRIES LLC		1.4	10.2		0.0
WHITE OAK MILLS INC	3.4	4.3	10.2	3.4	4.3
DOSSIER SYSTEMS INC	29.8	19.9	10.2	29.8	0.0
R A WALTON & CO INC	10.5	13.5	10.2	10.5	13.5
AMERICAN MADE LLC			10.2		
HUNTER MECHANICAL INC		25.0	10.1		25.0
IOP HOLDINGS LLC	8.4	6.2	10.1	0.0	0.0
PARAGON HOLDING CORP		5.8	10.1		5.8
SAGE TECHNOLOGY SOLUTIONS INC			10.1		
SNOWDON INTERNATIONAL LIMITED	14.1	8.5	10.0	14.1	8.5
ATOPTIX, INC		5.8	10.0		0.0
VANZYVERDEN INC			9.9		
HYTECH TOOL & DESIGN CO		2.5	9.9		2.5
X CARD HOLDINGS LLC	9.2	27.3	9.9	9.2	27.3
SWEET NOTE BAKERY INC	5.1	10.5	9.8	5.1	10.5
HYDRO PAC INC		134.5	9.7		0.0
COMPOSER, LLC		16.4	9.7		0.0
G O CARLSON INC			9.7		
SIG MEDICAL CORP		2.9	9.6		0.0
CDG ENVIRONMENTAL LLC	2.8	7.8	9.6	0.0	0.0
LUNCHTIME SOFTWARE LLC		9.4	9.6		9.4
PROMINENT FLUID CONTROLS INC	10.2	8.5	9.6	10.2	8.5
KEYSTONE COMPLIANCE LLC	19.4	21.2	9.6	15.1	0.0
PENN WELD INC		0.6	9.5		0.0
SAMTEC, INC			9.5		
VASCULARSTRATEGIES, LLC	3.3	5.0	9.5	3.3	0.0
TRANSDUCERWORKS LLC		19.8	9.5		19.8
GREENWICH TERMINALS LLC	11.2	7.3	9.5	11.2	7.3
J B KINTNER & SONS INC	27.5	28.5	9.4	27.5	28.5
ROMARK LOGISTICS OF PA INC		4.0	9.4		0.0
MEDICAL PRODUCTS LABORATORIES, INC	8.1	8.9	9.3	0.0	0.0
3FX INC	27.0	29.7	9.3	0.0	29.7
WAYNE AUTOMATION CORPORATION			9.3		
KRANDO METAL PRODUCTS INC	22.5	22.3	9.2	22.5	22.3
EMINENCE ENTERTAINMENT ENTERPRISES LLC	11.1	9.6	9.1	11.1	0.0
AMPLIFIER RESEARCH CORP	20.3	18.1	9.1	0.6	0.0
LINCOLN CONTRACTING & EQUIPMENT CO INC	7.9		9.1	7.9	
WAZOODLE FABRICS LLC	6.4	2.9	9.1	6.4	0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
SNAKE CREEK LASERS LLC		15.7	8.9		0.0
SITE DESIGN CONCEPTS INC		10.7	8.9		10.7
BENEFIT ALLOCATION SYSTEMS, LLC			8.9		
VERTICAL SCREEN INC	8.4	19.4	8.9	0.0	0.0
WHITING CORPORATION			8.8		
HOUGHTON INTERNATIONAL INC		25.3	8.8		25.3
E K L MACHINE INC			8.8		
CHELSEA BUILDING PRODUCTS INC	27.4	59.5	8.8	27.4	59.5
CONCURRENT ELECTRONIC DESIGN AUTOMATION		1.6	8.8		0.0
RACESENG INC	3.6	4.7	8.8	3.6	0.0
T & M ASSOCIATES INC	3.8		8.7	3.8	
SUPERIOR TECH, INC		8.7	8.7		0.0
SHAW INDUSTRIES INC	12.3	5.4	8.7	12.3	0.0
IMPULSE TECHNOLOGY		4.8	8.7		0.0
SANDQUIST CORPORATION			8.6		
LESLEH PRECISION INC		6.1	8.6		6.1
EAFAB CORPORATION		8.1	8.6		8.1
MILLENNIUM MANUFACTURING INC	25.0	28.5	8.6	25.0	28.5
RED QUEEN GAMING LLC		7.9	8.5		0.0
PDM CONSTRUCTORS, LLC	8.3	12.4	8.5	8.3	0.0
JUST BORN, INC			8.5		
MEGAPHASE LLC			8.5		
EXH INC	1.5	5.8	8.4	1.5	0.0
MEDIUS AG, LLC		4.2	8.4		0.0
SHADOWFAX INC		7.2	8.4		0.0
WRIGHT LABS LLC		2.3	8.4		0.0
SPECTRAGENETICS INC			8.3		
PXO HOLDINGS III CORP			8.3		
ARIN TECHNOLOGIES		2.5	8.3		2.5
GRUDI ASSOCIATES INC	14.2	13.7	8.3	14.2	0.0
JUDCO MANAGEMENT INC	14.9		8.3	14.9	
READING PRECAST INC	8.9	16.5	8.2	8.9	16.5
CLIMATECH HOLDING CO		6.6	8.2		0.0
NURSE NAVIGATOR SOLUTIONS LLC		1.9	8.2		0.0
D F STAUFFER BISCUIT CO INC	26.2	19.6	8.1	26.2	0.0
PACKAGING CORPORATION OF AMERICA			8.1		
ARCWEB TECHNOLOGIES LLC			8.0		
SHOEMAKER MFG SOLUTIONS INC		5.1	8.0		0.0
ARMADA PARTNERS LP			8.0		
HANOVER IRON WORKS INC	13.2	7.5	7.9	0.0	7.5
ATRIN PHARMACEUTICALS	3.5	6.7	7.9	3.5	0.0
SIGNATURE VACUUM SYSTEMS INC	1.3	8.4	7.9	1.3	0.0
JOBBO INVESTMENTS, INC		15.6	7.9		0.0
SHOWCLIX INC	5.3		7.8	5.3	
NEWCASTLE CO INC			7.8		
INNOVATIVE CONTROL SYSTEMS INC		32.5	7.7		24.5
NEWMAN & COMPANY INC	2.8	3.1	7.7	0.0	0.0
WALL CO INC			7.7		

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	2017	2018	2019	2017	2018
WBQ INTERMEDIATE LLC		8.7	7.7		0.0
NATIONAL MAGNETICS GROUP INC	37.5	17.4	7.7	37.5	17.4
GSI HEALTH, LLC		117.7	7.7		0.0
PITTSBURGH PLASTICS MANUFACTURING INC		0.4	7.6		0.4
REDDOG INDUSTRIES INC			7.6		
ERDMAN ANTHONY ASSOCIATES INC	5.2		7.6	5.2	
VISNETA, LLC			7.6		
STONER INC	22.9	3.5	7.5	22.9	0.0
VSI OF DELAWARE INC			7.5		
PYROTEK INC	15.0	2.7	7.5	15.0	0.0
MBF THERAPEUTICS INC			7.5		
WEB TALENT LLC	33.8		7.4	21.5	
ADRIK, LLC		4.1	7.4		0.0
SOLVAY USA, INC	104.3		7.4	0.0	
DIAMOND MT INC	0.8	8.8	7.3	0.8	0.0
SHEETZ INC		31.7	7.3		0.0
CANARY COMPLIANCE		48.6	7.3		0.0
UNIVERSAL INDUSTRIAL GASES INC	15.0	14.4	7.3	15.0	0.0
RLC ELECTRONIC SYSTEMS INC	13.9	10.0	7.2	13.9	10.0
WILSON LEGAL SOLUTIONS INC	45.7	62.6	7.2	45.7	0.0
OCTECH, LLC	4.6	7.1	7.2	4.6	0.0
GENERAL DYNAMICS SATCOM TECHNOLOGIES INC	9.0	13.3	7.2	9.0	0.0
ENVIRONMENTAL CONTROL SERVICES II INC	12.1	24.8	7.2	6.0	6.9
SERIES U OF UM PARTNERS LLC		12.4	7.1		0.0
OPTIMUS TECHNOLOGIES INC	8.1	20.1	7.1	8.1	20.1
PORT ERIE PLASTICS INC	12.1	12.2	7.1	12.1	12.2
MATERION BRUSH INC	14.0	8.5	7.0	0.0	0.0
EVOL SCIENCE LLC	0.7	4.5	7.0	0.0	0.0
SAS INSTITUTE INC	1.9	1.0	7.0	0.0	0.0
MACRON DYNAMICS INC	3.2	4.7	7.0	3.2	4.7
NSV INC			6.9		
MISKO INC		86.4	6.9		86.4
BOARDBOOKIT INC	1.8	6.5	6.9	1.8	6.5
BIMAX OF PA INC			6.8		
PLASTIKOS INC		10.1	6.8		10.1
CONSTRUCTURAL DYNAMICS, INC			6.8		
CAREL USA LLC	2.6	3.7	6.7	2.6	3.7
DUANE MORRIS LLP			6.6		
GREYSIGNAL INC		3.7	6.6		3.7
ATEECO INC	14.4	14.0	6.6	14.4	14.0
PERFICIENT INC	8.5	1.5	6.6	8.5	1.5
DELTA INFORMATION SYSTEMS INC	12.4	10.7	6.6	0.1	0.0
BLASTPOINT INC			6.6		
SRVD INC	4.8	5.9	6.5	4.8	5.9
SCISWFIT LLC			6.4		
MILLER WELDING & MACHINE CO		19.7	6.4		19.6
FAIRMOUNT FOUNDRY INC		1.9	6.4		0.0
HERMANCE & STROUSE INC	3.0	3.7	6.3	3.0	3.7

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	2017	2018	2019	2017	2018
ALLEGHENY PERFORMANCE PLASTICS LLC			6.3		
NORTHWAY INDUSTRIES INC	9.4	36.1	6.3	9.4	0.0
PARAGON ENGINEERING SERVICES INC		10.8	6.2		0.0
FINPAY HOLDINGS, LLC			6.2		
HELIUS MEDICAL, INC		13.8	6.2		0.0
BIGBEE STEEL & TANK CO			6.1		
PERPAY, INC			6.1		
ARDEX LP		10.4	6.1		10.4
WHIRLEY INDUSTRIES INC		11.7	6.0		0.0
GREINER INDUSTRIES INC			6.0		
RALPH S ALBERTS CO INC		8.0	6.0		7.9
PACKAGING PROGRESSIONS INC	17.6	40.6	6.0	17.6	0.0
RENERVA			5.9		
OGONTZ CORPORATION			5.9		
SOLAR TECHNOLOGY INC	8.8	4.3	5.9	8.8	0.0
PETERSON CARTRIDGE CO	10.8	7.4	5.9	0.0	7.4
STARKIST CO		2.3	5.9		2.3
CLOUDSHADOW, LLC	4.2	18.6	5.8	4.2	0.0
GAMRY INSTRUMENTS INC	21.2	17.2	5.8	21.2	0.0
FRES CO SYSTEM USA INC	63.1	21.1	5.7	51.5	21.1
LOWE ENGINEERING COMPANY, INC			5.7		
PROXICAST, LLC	3.2		5.6	3.2	
STARLITE DIVERSIFIED INC			5.6		
UNITED METAL FABRICATORS INC		2.7	5.6		2.7
PENN COLOR INC	14.1	6.6	5.6	14.1	6.6
IVIEW THERAPEUTICS, INC			5.6		
1DA CORPORATION	15.6	32.9	5.6	15.6	0.0
MESHNET, INC			5.6		
GARDNERS CANDIES INC	2.6	4.3	5.5	2.6	0.0
SB GLOBAL FOODS INC	4.1	8.8	5.5	4.1	8.8
PHOTONIS DEFENSE, INC	3.8	10.2	5.5	0.0	0.0
ROSENBERGER USA CORP	1.0	6.1	5.5	1.0	6.1
MGS INC		4.5	5.5		0.0
ZENTIS BETEILIGUNGSVERWALTUNGS GMBH & CO			5.5		
GATTER & DIEHL INC			5.5		
CASTLE MOLD & TOOL INC	11.2	22.1	5.4	11.2	0.0
COLORFIN, LLC			5.4		
F & S TOOL INC		7.6	5.4		7.5
416 JOHNSON PROPERTIES, LTD		6.3	5.4		0.0
LIFESTYLE FOODS INC	0.4	2.6	5.4	0.4	0.0
CORRY MICRONICS INC	12.8	22.8	5.4	12.8	22.8
PDQ INDUSTRIES INC			5.4		
MEPUSH INC	19.3	4.0	5.4	0.0	0.0
POLYK TECHNOLOGIES LLC			5.3		
J & R ACQUISITION CORP		3.6	5.3		0.0
SPECTRUM CONTROL INC			5.3		
ABERDEEN ROAD COMPANY	2.1		5.3	2.1	
NATIONAL REFRIGERATION AND AIR CONDI			5.3		

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
ACS INTERNATIONAL RESOURCES INC			5.3		
INOLEX CHEMICAL COMPANY	40.6	11.2	5.2	40.6	11.2
CARGAS SYSTEMS INC	26.1	21.1	5.2	26.1	21.1
FEDEX GROUND PACKAGE SYSTEM INC		43.3	5.2		0.0
YARDS BREWING COMPANY LLC	10.2	9.7	5.2	0.0	0.0
INSTEEL WIRE PRODUCTS COMPANY			5.2		
FLUITRON, INC	0.4	8.0	5.2	0.4	8.0
LORNE G. SEIFERT, LLC		5.8	5.2		0.0
WAMPOLE MILLER INC	109.4	38.4	5.1	109.4	38.3
KIERAN TIMBERLAKE	6.9	2.7	5.1	6.9	0.0
DYNAMET INC		3.6	5.1		0.0
FRAMKAT LP			5.0		
WEAVER COMPANIES INC	8.4	6.6	5.0	0.0	0.0
CONTEC SYSTEMS INDUSTRIAL CORPORATION	5.1		4.9	5.1	
DIVERSIFIED TRAFFIC PRODUCTS INC	6.4		4.9	6.4	
SFS GROUP USA INC	6.8	5.7	4.9	6.8	5.7
TRAVELWITS LLC	1.5	5.6	4.9	1.5	0.0
FINISH THOMPSON INC	5.4	6.3	4.9	5.4	0.0
COLUMNTEK LLC		2.1	4.9		0.0
REMEDY SIMULATION GROUP, INC	8.0	13.2	4.9	8.0	0.0
SYANDUS INC		4.5	4.8		4.5
FINISAR CORPORATION	25.4		4.8	0.5	
SKINJECT, INC			4.8		
ARRAY ANALYTICS INC			4.8		
HERSHEY ENTERTAINMENT & RESORTS COMPANY			4.8		
DUCK DUCK GO INC		7.2	4.7		7.2
BRIO DESIGNS PARTNERS LLC	10.5		4.7	9.1	
EASTMAN CHEMICAL COMPANY		1.6	4.7		1.6
LCR EMBEDDED SYSTEMS, INC	6.2	13.6	4.6	6.2	0.0
ELECTRON ENERGY CORP		8.3	4.6		0.0
SECURITY RISK ADVISORS INC	2.7	2.5	4.6	2.7	0.0
PEQUEA MACHINE INC	3.4	3.2	4.5	3.4	0.0
COMPOSITE PANELS INNOVATIONS, LLC	1.6	3.3	4.5	1.6	0.0
VIRONIKA LLC			4.5		
CORRY MANUFACTURING COMPANY	20.0		4.5	20.0	
NORTHPORT DISTRIBUTION LLC	2.2	4.4	4.5	2.2	4.4
SHEA & LATONE INC		3.6	4.4		0.0
MAXX ORTHOPEDICS INC	6.1	0.9	4.4	6.1	0.9
HIGHWOOD USA LLC	42.9	22.0	4.4	0.0	0.0
VELOCITY ROBOTICS, INC			4.4		
ENTASIS, INC			4.3		
KERITON INC		13.2	4.3		13.2
JETNET CORPORATION	2.0	1.9	4.3	2.0	1.9
REARICK TOOLING INC		2.9	4.3		0.0
STRAIGHT ARROW PRODUCTS, INC	12.5	9.0	4.2	12.5	0.0
CARNEGIE SPEECH			4.2		
SIMPLE ORIGIN			4.2		
G E M MECHANICAL SERVICES INC	11.7	21.9	4.2	11.7	0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
GLOBAL METAL POWDERS LLC	17.3	15.2	4.1	17.3	0.0
STRADOS LABS LLC		5.3	4.1		0.0
SUPERIOR TIRE & RUBBER CORP	8.4	7.7	4.1	0.0	0.0
KEYSTONE SPORTING ARMS LLC			4.1		
RINOVUM WOMEN'S HEALTH, LLC			4.0		
J & A TOOL COMPANY INC			4.0		
SCHEERER BEARING CORPORATION	5.1	2.4	4.0	0.0	0.0
SUNNY DELL FOODS INC		5.8	4.0		5.8
COMPETITION TIRE EAST INC	20.1	5.7	4.0	20.1	0.0
GARTNER BURDICK BAUER NILSEN INC			4.0		
KONGSBERG PROTECH SYSTEMS USA CORP		2.0	4.0		2.0
S J A CONSTRUCTION INC		0.6	4.0		0.6
LEECH INDUSTRIES INC	0.9	6.0	4.0	0.9	6.0
BERK INTERNATIONAL LLC	24.6	7.7	3.9	24.6	0.0
TECH TUBE INC	13.4	27.1	3.9	0.0	0.0
BLAIR STRIP STEEL COMPANY	3.3	1.7	3.9	0.0	0.0
B J TERRONI CO INC			3.9		
MCM ELEMENTS LLC			3.8		
COMMONWEALTH FIRE PROTECTION CO		4.2	3.8		0.0
BOSTOCK COMPANY INC	22.0		3.8	22.0	
ADVANCED COMPOSITE PRODUCTS INC	17.5	12.7	3.8	17.5	12.7
LOAD RITE CORP	3.7	1.8	3.8	3.7	1.8
BEAVER STEEL SERVICES INC	5.3	3.4	3.8	5.3	0.0
PANTHER LEARNING SYSTEMS INC	0.3	1.8	3.7	0.3	1.8
SKILL SURVEY INC	18.4	7.1	3.7	18.4	7.1
ADIAON LLC	0.3		3.7	0.3	
VENTANA USA			3.7		
EDU LINK INC	26.7	0.3	3.6	26.7	0.0
MUSIC EVERYWHERE, INC			3.6		
APTAGEN, LLC	12.0	2.7	3.6	12.0	0.0
MICRO MOLD CO INC	29.0		3.6	29.0	
WILD MEADOW FARMS LLC		6.8	3.6		0.0
FRONT STREET REFRIGERATED SERVICES LLC		0.9	3.6		0.9
ALCOM PRINTING GROUP, INC			3.6		
CKJK, LLC	1.7		3.6	1.7	
HRANEC SHEET METAL INC		6.0	3.6		0.0
VISTA METALS INC			3.5		
AUDIA INTERNATIONAL, INC	21.4	18.4	3.5	21.4	0.0
DEASEY MACHINE TOOL & DIE WORKS INC			3.5		
WEAVER INDUSTRIES INC	1.9	0.9	3.5	1.9	0.0
LEE INDUSTRIES INC	13.5	7.0	3.5	13.5	0.0
ARCHITECTURAL PRECAST INNOVATIONS INC	13.4	6.0	3.5	13.4	0.0
MINTEQ INTERNATIONAL INC	20.1	3.3	3.4	20.1	3.3
TALBAR INC	9.8	21.0	3.4	1.6	0.0
LAMTEC CORPORATION	29.7	22.8	3.4	29.7	0.0
RADIUS CORPORATION	7.2	10.4	3.4	7.2	0.0
NURSERY SUPPLIES INC			3.4		
PASCO TOOL & PLASTICS INC			3.4		

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
OPTIMIZED MARKETS INC			3.4		
GRAPHIC PACKAGING INTERNATIONAL INC			3.4		
SUSSEX WIRE INC	8.1	4.5	3.3	0.0	0.0
SPECIALTY SEAL GROUP, INC	9.8	9.0	3.3	9.8	0.0
GOLDEN BROTHERS INC	38.7	10.6	3.3	38.7	10.6
SENTINEL HOLDING INC			3.2		
HILLSIDE ACQUISITION GROUP LLC	3.6	1.7	3.1	3.6	0.0
PRESCIENT WEATHER LTD			3.1		
POLYMER MOLDING INC		0.4	3.1		0.4
SEA PHARMACEUTICALS, LLC	14.4	11.3	3.1	0.0	0.0
LEVIS BUILDING COMPONENTS LLC			3.0		
INDUSTRIAL VISION SYSTEMS, INC	2.5	10.8	3.0	2.5	10.8
NEWAGE INDUSTRIES INC	16.7	4.5	3.0	16.7	0.0
SPECTRUM MICROWAVE INC			3.0		
GROVARA, LLC			3.0		
FEDERAL CARBIDE COMPANY		0.7	2.9		0.7
PRIMAXX ACQUISITION CORP			2.9		
LEHIGH DEFENSE LLC	3.8	5.9	2.9	3.8	0.0
JERSEY SHORE STEEL CO			2.9		
KOLLMORGEN CORPORATION			2.9		
TIMBERLANE INC		1.3	2.9		0.0
BOOSE AT CORNWALL INC	11.5	5.8	2.9	11.5	0.0
3GTMS, INC	51.3	109.7	2.8	51.3	109.7
PENNLAKE CORPORATION	3.3	0.1	2.8	3.3	0.1
DASSAULT SYSTEMES AMERICAS CORP			2.8		
MICROCHIP TECHNOLOGY INC			2.8		
CRABTREE, ROHRBAUGH & ASSOCIATES, INC			2.8		
SOMERSET WELDING & STEEL INC			2.7		
SPECIALTY COATED PRODUCTS INC	11.6	7.9	2.7	0.0	0.0
WOLF TECHNOLOGIES LLC			2.7		
HERKULES USA CORPORATION	18.8	14.0	2.7	0.0	0.0
VALLEY INSTRUMENT CO INC	0.4	3.0	2.7	0.4	3.0
METCO INDUSTRIES INC			2.7		
SIGNAL TECHNOLOGIES INC			2.7		
THE LACKNER GROUP, INC	15.5	8.9	2.6	15.5	0.0
CIVIC MAPPER LLC		2.6	2.6		0.0
IMPERIAL CARBIDE INC		2.5	2.6		0.0
OLIVER M DEAN INC			2.6		
GREAT COASTERS INTERNATIONAL INC			2.6		
GREAT LAKES AUTOMATION SERVICES INC	0.1	1.8	2.6	0.0	0.0
TIW TECHNOLOGY INC	12.3	4.6	2.5	0.0	4.6
PROJECT VIVE LLC	1.2		2.5	1.2	
ACCESS SECURITY CORP	13.4	17.7	2.5	13.4	11.0
BRIGHTBYTES, INC			2.5		
NELSON		3.3	2.5		0.0
LITTLESTOWN FOUNDRY INC	3.6	3.4	2.5	3.6	0.0
BRACALENTES MANUFACTURING CO INC			2.5		
GGS INFORMATION SERVICES INC			2.5		

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	2017	2018	2019	2017	2018
BEHAVIOR LLC			2.5		
CROMPCO, LLC	6.4	6.2	2.4	6.4	0.0
MODERN CABINET AND CONSTRUCTION INC	1.9	1.9	2.4	1.9	1.9
GRIFF & ASSOCIATES LP	11.1	5.9	2.4	0.0	0.0
J.A.C.K. WOOD PRODUCTS LLC	0.2	0.7	2.3	0.2	0.0
TEKRESULTS LTD	0.0	1.4	2.3	0.0	0.0
VIDEO DIRECTIVES LLC			2.3		
NOVATECH, LLC	5.7	4.2	2.2	0.0	0.0
NEW STANDARD CORPORATION			2.2		
IPEG INC			2.2		
STATE OF THE ARC WELDING AND FABRICATING	7.0	10.3	2.2	7.0	0.0
PHOSPHOLUTIONS, LLC			2.2		
K12SYSTEMS INC		1.8	2.2		0.0
ANDRITZ ASKO INC		4.5	2.2		1.5
PERFIDO, WEISKOPF, WAGSTAFF & GOETTEL			2.1		
RUE ENVIRONMENTAL LLC			2.1		
XYNTEK INC	44.9	110.7	2.1	44.9	0.0
ADVANCED MANUFACTURING TECHNOLOGIES INC		6.5	2.1		6.5
GET WIRELESS INC			2.1		
JORDAN ACQUISITION GROUP LLC	2.9	1.4	2.1	0.0	0.0
EFS NETWORKS INC	10.6	13.2	2.0	0.0	0.0
CHANT ENGINEERING CO INC	18.0	4.7	2.0	18.0	0.0
TECHNOTECTS, INC	4.4		2.0	4.4	
C W E INC			2.0		
UNIVERSAL PROTECTIVE PACKAGING INC			2.0		
HOMELAND MANUFACTURING SERVICES INC		0.9	2.0		0.9
NOVASEPAMERICASINC		9.9	2.0		0.5
ERNST CONSERVATION SEEDS INC			1.9		
ADVANCED ALLOY PROCESSING CORPORATION			1.9		
RICHARDSAPEX INC			1.9		
DFT INC			1.9		
CODY COMPUTER SERVICES, INC			1.8		
GARMAN BUILDERS, INC			1.8		
C.J. ROBINSON COMPANY	5.3		1.8	5.3	
FRENCHCREEK PRODUCTION INC	2.6		1.8	2.6	
PECA LABS INC			1.7		
PRACTICEMATCH CORPORATION		11.4	1.7		11.4
BEILER HYDRAULICS INC	1.0	2.4	1.7	1.0	2.4
MCS INDUSTRIES INC	2.8	2.3	1.7	2.8	2.3
VIDEORAY LLC		13.4	1.7		0.0
WISE TELEMETRY LLC	2.2	4.4	1.6	2.2	4.4
REDLAND QUARRIES NY INC			1.6		
INDUSTRY WEAPON INC	0.8	7.1	1.6	0.8	7.1
MCADOO & ALLEN INC	8.7	6.2	1.6	8.7	0.0
LOBAR SITE DEVELOPMENT CORPORATION	3.9	1.3	1.6	3.9	0.0
SHANKS EXTRACTS INC	5.8	5.2	1.6	0.0	5.2
BLAIR TOOL AND PLASTICS COMPANY LLC			1.6		
KEYSTONE MANUFACTURING INC	2.9	2.0	1.5	2.9	0.0

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	2017	2018	2019	2017	2018
AES ASSET ACQUISITION CORPORATION	1.1	4.1	1.5	1.1	4.1
KIEWIT ENGINEERING GROUP INC		2.8	1.5		2.8
VULCAN SPRING & MFG CO			1.5		
TEKGARD INC			1.5		
HIGHLAND TANK & MFG. CO.			1.4		
DELSERRO ENGINEERING SOLUTIONS INC	1.5	3.3	1.4	1.5	3.3
KUNZLER & COMPANY INC	3.0	4.6	1.4	3.0	4.6
GRIFFITH BROTHERS WHITETAIL RIDGE, INC	1.3	0.2	1.4	1.3	0.0
STATE OF THE ART INC		0.4	1.4		0.0
RIVERSIDE MATERIALS INC		1.3	1.4		1.3
VIKING TOOL & GAGE INC	2.8	3.5	1.3	2.8	0.0
BACKFLIPS INC	0.5	1.0	1.3	0.5	0.0
PMC ORGANOMETALLIX, INC	1.5	1.8	1.3	1.5	1.8
NEAR EARTH AUTONOMY INC			1.3		
THE DOYLE GROUP, INC		1.3	1.3		0.0
EARTH SHAPERS LLC		2.3	1.2		0.0
FEDEGARI TECHNOLOGIES INC		2.9	1.2		2.9
TREATSPACE INC	14.9		1.2	14.9	
A & H SPORTSWEAR CO INC	14.1	12.1	1.2	14.1	0.0
COMBUSTION SERVICE & EQUIPMENT COMPANY		11.3	1.2		11.2
LABELPACK AUTOMATION INC		1.8	1.1		0.0
DESTINATION KNOWN	0.4		1.1	0.4	
EASTHILL GROUP INC	2.5	3.2	1.1	0.0	0.0
ALL FILL CORP			1.1		
YNOT DISTRIBUTING LLC			1.1		
INSTITUTE ON HEALTHCARE DIRECTIVES		2.9	1.0		0.0
PRETZEL PETE INC		0.2	1.0		0.2
ACOUSTICSHEEP LLC			1.0		
WALSH GRANITE JV		9.1	0.9		0.0
DYNAMIC ENERGY SOLUTIONS LLC	8.9	8.1	0.9	0.0	8.0
BASHLIN INDUSTRIES INC			0.9		
ZIPCORP INC	9.9	10.2	0.9	9.9	0.0
MISCO PRODUCTS CORPORATION	0.5		0.9	0.0	
PENN WOOD PRODUCTS INC	1.8		0.8	1.8	
BLAIR COMPANIES	3.5		0.8	3.5	
MATRIX OPERATIONS COMPANY LLC	21.9		0.8	21.9	
COCALICO DISTRIBUTION LLC	0.7	0.4	0.8	0.0	0.0
NEU DYNAMICS CORP	6.4	3.7	0.8	6.4	3.7
PLASTECH CONTAINER SYSTEMS INC	5.7	4.8	0.7	3.6	0.0
SARRIS CANDIES INC	28.9	6.8	0.7	28.9	0.0
SPECTRUM CONTROL TECHNOLOGY INC			0.7		
MICHELS BAKERY INC	5.4	3.5	0.7	5.4	0.0
SNYDER DISTRIBUTORS INC	2.1	1.8	0.7	0.8	0.0
SENTIENT INVESTMENT CORPORATION	0.2		0.7	0.2	
JAMES J ANDERSON CONSTRUCTION COMPANY			0.7		
ACTUATED MEDICAL INC		0.5	0.7		0.5
CRYSTAL INC PMC	2.9	2.9	0.7	2.9	2.9
ACCIPITER SYSTEMS INC		35.7	0.6		0.0

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	2017	2018	2019	2017	2018
PB HEAT LLC		6.4	0.6		0.0
GENERAL TRANSERVICE INC	2.0	0.6	0.6	2.0	0.0
DURAWOOD PRODUCTS INC	23.0	33.5	0.6	0.0	0.0
QUANTUM SOFTWARE SOLUTIONS INC	0.1	1.3	0.6	0.1	1.3
ERP ESSENTIALS LLC	1.2	0.8	0.6	1.2	0.0
SCHOOL GATE GUARDIAN INC	4.0	4.0	0.6	4.0	4.0
CERTES NETWORKS INC		15.7	0.5		15.7
NORTHEAST INDUSTRIAL MANUFACTURING INC	0.5	5.0	0.5	0.0	0.0
NESSCO ENTERPRISES LLC			0.5		
CENTRAL HYDRAULICS INC			0.5		
S & S X RAY PRODUCTS INC	0.4	0.0	0.5	0.0	0.0
CIRCADIANCE LLC	1.2		0.5	0.0	
LOZIER CORPORATION			0.5		
HUSTON INC		7.6	0.5		7.6
LOST TAVERN BREWING, LLC		1.2	0.5		0.0
EAGLE METALS INC	6.1	0.5	0.4	6.1	0.0
MCCOURT LABEL CABINET COMPANY		0.2	0.4		0.0
KEYSTONE ABRASIVES CO	0.2	0.2	0.4	0.2	0.2
CANTO TOOL CORPORATION			0.4		
MEDICO INDUSTRIES INC			0.4		
COATINGTECH, LLC	2.0	1.3	0.3	2.0	0.0
QRONO INC	0.1	0.3	0.3	0.0	0.0
OLIVER TOLAS HEALTHCARE PACKAGING INC	2.9	10.4	0.3	2.9	10.4
INTEGRATED FABRICATION & MACHINE INC	0.2	0.8	0.3	0.2	0.0
GLENN O HAWBAKER INC	7.9		0.3	7.9	
SP ACQUISITION COMPANY, LLC	1.1	2.0	0.3	0.0	0.0
STRASBURG RAILROAD COMPANY		1.7	0.3		0.0
ACME CORRUGATED BOX CO		0.2	0.2		0.2
RAPID REACTION INC	0.7	1.6	0.2	0.7	0.0
SPRING CITY ELECTRICAL MANUFACTURING	1.4	0.7	0.2	1.4	0.0
L T L WHOLESALE INC	4.5	1.8	0.2	4.5	0.0
SPECIALTY FABRICATION & POWDER COATING	2.9	2.6	0.1	0.0	0.0
T M INDUSTRIAL SUPPLY INC			0.1		
RUNABOUT MEDIA GROUP LLC			0.1		
LIGHTWEIGHT MANUFACTURING INC		1.7	0.0		0.0
INCYTE CORPORATION		1,156.6			1,156.6
GLAXOSMITHKLINE, LLC		772.5			769.5
THE VANGUARD GROUP, INC	190.5	624.9		190.5	624.9
ARCONIC, INC	265.7	494.1		265.7	362.7
PRECISION PIPELINE, LLC		485.8			0.0
BAE SYSTEMS LAND & ARMAMENTS, LP	108.9	315.9		108.9	0.0
HONEYWELL INTERNATIONAL, INC	260.2	279.7		260.2	0.0
BMH, LLC		256.1			256.1
ARGAN, INC		249.8			249.8
THE HERSHEY COMPANY	445.0	237.1		445.0	237.1
YORK INTERNATIONAL CORPORATION	247.9	214.5		0.0	0.0
INTERNATIONAL BUSINESS MACHINES CORPORATION	134.2	195.0		0.0	0.0
SAVANA, INC	74.9	158.5		74.9	158.5

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	2017	2018	2019	2017	2018
HOLTEC MANUFACTURING DIVISION	530.1	157.6		103.4	6.1
NOKIA OF AMERICA CORPORATION		140.6			0.0
LUTRON ELECTRONICS CO, INC	306.1	140.0		264.8	140.0
A. I. LABS, LLC		135.9			135.9
GRAYMONT PA, INC		126.7			0.0
EMONEY ADVISOR HOLDINGS, LLC	261.0	116.9		0.0	0.0
DART CONTAINER CORP OF PENNSYLVANIA		114.3			114.3
GENUS LIFESCIENCES, INC	518.3	109.7		281.0	109.7
AERZEN USA CORPORATION	166.5	104.9		166.5	19.0
PENTEC HEALTH, INC	49.0	103.9		49.0	33.2
CARPENTER TECHNOLOGY, CORPORATION		95.3			0.0
DAVID MICHAEL CO, INC		92.2			91.0
OKNA WINDOWS CORP		86.7			0.0
SPD ELECTRICAL SYSTEMS, INC	107.8	81.8		107.8	0.0
SECO/WARWICK CORPORATION	41.2	81.8		41.2	0.0
SANOFI PASTEUR, INC	1,113.1	75.8		1,113.1	75.8
NEVERWET, LLC		72.0			0.0
MARS INC		70.7			70.7
MATHWAY, LLC	52.3	69.0		52.3	0.0
ENSEMBLE HOLDING II, INC		65.9			0.0
DGI-MENARD, INC		65.3			11.6
BLACKNEY-HAYES ARCHITECTS, P.C.		63.1			0.0
HENNECKE, INC	125.2	62.9		125.2	8.8
P H GLATFELTER COMPANY		62.5			0.0
ZSX MEDICAL, LLC	16.1	60.3		16.1	0.0
EFE LABORATORIES, INC	10.1	60.1		10.1	60.1
ACADEMYONE, INC	47.1	59.9		21.2	59.9
KNOLL, INC	306.4	59.8		112.5	59.8
PDC MACHINES, INC		59.7			22.8
CITIZENDEVELOPER.COM, LLC		55.0			0.0
SWIFT FINANCIAL CORPORATION		54.3			0.0
QUEST DIAGNOSTICS CLINICAL LABORATORIES	40.6	54.2		40.6	54.2
RJP CONSULTING GROUP, LLC		54.0			0.0
TREVENA, INC	1,494.1	52.2		1,494.1	0.0
FABRICATED COMPONENTS, INC	4.6	51.6		0.0	0.0
IDENTIFIED TECHNOLOGIES CORPORATION	30.3	50.8		30.3	50.8
INTERNATIONAL SOS ASSISTANCE, INC		47.4			0.0
JOHNSON MATTHEY, INC	125.5	47.0		99.8	0.0
SSM INDUSTRIES, INC	17.8	46.5		17.8	46.5
GENTEX CORPORATION		45.1			29.3
DENTAL IMAGING TECHNOLOGIES CORP	50.5	45.1		38.8	0.0
PROFESSIONAL STAFFING SOLUTIONS, LLC	31.0	44.4		31.0	0.0
AVANTOR PERFORMANCE MATERIALS HOLDINGS,	7.4	44.2		0.0	0.0
CONTROLLED MOLDING, INC	25.8	44.1		25.8	25.8
FORGE LIFE SCIENCES, LLC	25.7	43.7		25.7	0.0
HEAVYWATER, INC		41.3			0.0
CARMELL THERAPEUTICS CORPORATION		40.9			40.9
ARCADIS US, INC		40.4			40.4

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
RE 2, INC		39.6			0.0
INTERDIGITAL COMMUNICATIONS, INC	145.1	39.0		145.1	39.0
INTEGRA YORK PA, INC	62.1	37.6		57.5	37.6
EISAI, INC		36.3			0.0
DRV, INC		36.2			0.0
WESTERN ONCOLYTICS, LTD		35.3			0.0
WABTEC CORP		34.9			34.9
OBERG INDUSTRIES, INC AND QSS	52.3	34.8		52.3	0.0
SPARKS MARKETING CORP		34.5			34.4
LIVEGENIC, INC	23.2	34.1		23.2	34.1
AUTOMAP, LLC	9.5	34.1		9.5	0.0
CARDIAC ASSIST, INC		33.7			0.0
O'NEAL INDUSTRIES, INC	9.5	33.7		9.5	0.0
PPG ARCHITECTURAL FINISHES, INC	48.4	33.5		0.0	0.0
LASER TOOL, INC		33.1			0.0
GELEST, INC	112.2	32.9		0.0	8.6
WEIS MARKETS, INC	15.8	32.9		0.0	0.0
GENEX HOLDINGS, INC	25.1	32.7		25.1	32.7
AXALTA COATING SYSTEMS, LLC	32.8	32.6		0.0	0.0
TELEOSOFT, INC		32.4			0.0
HIGHPOINT TOOL AND MACHINE, INC	4.3	32.1		0.0	0.0
VOCOLLECT, INC	17.6	32.1		17.6	0.0
KOVATCH MOBILE EQUIPMENT CORP		31.4			0.0
NEAR-MISS MANAGEMENT, LLC	19.6	31.2		19.6	0.0
IMCARE BIOTECH, LLC		31.0			31.0
PASS AND SEYMOUR, INC	31.7	30.9		31.7	30.9
HUMAN MOTION TECHNOLOGIES, LLC	12.0	30.6		0.0	0.0
SAVAGE VISUAL EFFECTS, LLC	16.6	30.1		16.6	0.0
JIG, INC		29.9			0.0
CVS PHARMACY, INC	183.5	29.5		183.5	29.5
MEBIAS DISCOVERY, LLC		29.4			0.0
FEDERAL HEARINGS & APPEALS SERVICES, INC		29.0			0.0
ESSENT CORPORATION	13.5	28.5		0.0	0.0
MALLINCKRODT, INC		28.5			0.0
ARCHITECTURAL POLYMERS, INC		28.0			0.0
VOIPSTREET, INC	18.4	28.0		18.4	0.0
C & J INDUSTRIES, INC		27.9			0.0
GERG TOOL AND DIE, INC		27.8			0.0
POWERLINK VALUATIONS, LLC		27.8			0.0
TMUNITY THERAPEUTICS, INC		27.6			0.0
AKUSTICA, INC	20.2	27.5		20.2	0.0
MAGUIRE PRODUCTS, INC	59.1	27.3		59.1	0.0
UNIVERSAL ELECTRIC CORPORATION	55.9	26.3		55.9	26.2
YORK IMPERIAL PLASTICS, INC	7.5	26.0		0.0	0.0
PHOENIX TECHNICAL SOLUTIONS, INC	158.7	25.7		158.7	0.0
CUSTOM MOLDS/PLASTICS		25.7			0.0
TARGET PRECISION, LLC		25.4			8.5
C&R DIRECTIONAL BORING, LLC	10.5	25.2		10.5	25.2

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	2017	2018	2019	2017	2018
LIGHT TOOL & MACHINE, INC	1.5	25.0		1.5	25.0
EPIC WEB STUDIOS	14.1	24.8		14.1	0.0
CURRY SUPPLY CO		24.6			24.6
PRECISION MEDICAL PRODUCTS, INC	23.4	24.5		23.4	0.0
MATTHEWS INTERNATIONAL CORPORATION	46.6	24.1		0.0	0.0
VERYAPT, INC	16.6	24.0		16.6	24.0
SHOP VAC CORPORATION		23.4			23.4
CAGENT VASCULAR, LLC	7.1	23.0		0.0	0.0
IT ASSIST, LLC	22.1	22.9		22.1	0.0
NORIA TECHNOLOGIES, LLC		22.9			0.0
ABUWALA & COMPANY, LLC		22.4			0.0
INDUSTRIAL RESOLUTION, LLC	23.9	22.3		23.9	22.3
EPICOR SOFTWARE CORP		22.1			0.0
MICHAEL BAKER INTERNATIONAL, INC		21.4			21.4
SOCIAL MEDIA INFORMATION, LLC	2.7	21.0		2.7	21.0
SOLAR INNOVATIONS, INC	11.5	20.7		0.0	0.0
HAVPAK, INC	29.0	20.6		29.0	0.0
RECLAMERE, INC	14.3	20.5		14.3	20.5
KW, INC	31.6	20.4		31.6	0.0
INSPIRAFS, INC	8.2	20.4		2.7	0.0
EDGEMATE, INC	15.6	20.3		15.6	0.0
MODERN WALL SYSTEMS, LP		20.1			0.0
SHARP INNOVATIONS, INC		19.9			0.0
GEORGEKO INDUSTRIES, INC		19.8			0.0
STANDARD OFFSET PRINTING COMPANY		19.5			19.5
THE MILNES CO, INC	8.3	19.5		8.3	0.0
SMITHWISE, INC	28.1	19.5		28.1	0.0
INVERSE PARADOX, LLC	20.8	19.4		20.8	19.4
JWF HOLDINGS, INC	31.7	19.3		31.7	0.0
AVERE SYSTEMS, INC	38.9	19.3		0.0	0.0
ARRIS GLOBAL SERVICES, INC		19.1			19.1
TRIUMPH CONTROLS, LLC	10.5	19.0		0.0	0.0
WACKER CHEMICAL CORPORATION		18.9			7.2
CUTANEA LIFE SCIENCES, INC	243.8	18.8		0.0	0.0
FIVE ELEVEN PHARMA, INC	22.6	18.6		22.6	18.6
IMET CORPORATION	21.9	18.6		0.0	0.0
G ADASAVAGE, LLC		18.4			0.0
MARKETING G2, LLC		18.3			0.0
IRENE'S BAKERY & GOURMET KITCHEN, INC	12.0	18.2		12.0	18.2
BARTONPARTNERS ARCHITECTS PLANNERS	38.4	18.2		38.4	18.2
UNILOG CONTENT SOLUTIONS, LLC	48.4	18.2		0.0	0.0
BLENDPRO, INC		18.1			0.0
LAKE TOOL, INC		17.8			0.0
SMARTYPAL, INC	15.4	17.7		15.4	17.7
CYBERSONICS, INC	14.8	17.7		14.8	0.0
SOFT GENETICS, LLC		17.6			17.6
INSECTARIUM & BUTTERFLY PAVILION		17.6			0.0
ADVANCED CONSTRUCTION ROBOTICS, INC		17.4			0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
GEORGIA PACIFIC CONSUMER OPERATIONS, LLC		17.1			0.0
NEURO KINETICS, INC	17.6	17.1		17.6	0.0
DUN & BRADSTREET, INC	107.7	16.6		0.0	0.0
ACTCO TOOL & MANUFACTURING COMPANY, INC	7.4	16.3		7.4	16.3
TRS TECHNOLOGIES, INC	36.5	16.2		36.5	16.2
PIEZO ENERGY, INC		16.2			0.0
THE RAINMAKER GROUP VENTURES, LLC	14.5	16.1		14.5	0.0
SCHENCK ACCURATE, INC		16.1			16.1
FORBO FLOORING, INC		16.0			6.0
TSE, INC	9.3	15.6		0.0	0.0
PENN MANUFACTURING INDUSTRIES, INC		15.6			0.0
JOHN ROCK, INC	16.2	15.2		0.0	0.0
JARUS TECHNOLOGIES INC	13.7	15.2		1.2	1.2
MARS INFORMATION SERVICES, INC		15.1			0.0
QUAKER MAID MEATS, INC		15.1			0.0
INTERTEK USA, INC	127.5	15.1		0.0	0.0
HEAT EXCHANGE AND TRANSFER, INC		15.0			0.0
FXI, INC		14.8			14.8
VEYKO, INC	4.5	14.8		4.5	0.0
PARKER HANNIFIN CORPORATION		14.6			0.0
PROBLEM SOLUTIONS, LLC	10.8	14.5		8.6	0.0
HYDROSPRAY WASH SYSTEMS, INC	1.0	14.4		1.0	0.0
AMERICAN INTERNATIONAL FORWARDING, INC	23.8	14.4		23.8	0.0
TELEFACTOR ROBOTICS, LLC	19.9	14.3		19.9	0.0
PIK-RITE, INC		14.3			0.0
CLEAVERSOFTE		14.2			0.0
B&B DESIGNED SYSTEMS, INC	11.6	14.2		11.6	0.0
INTUIDEX, INC	6.4	14.1		6.3	0.0
BLOOM ENGINEERING COMPANY, INC		14.0			0.0
APPCOVE, INC		14.0			0.0
ECOPAX, LLC		13.6			0.0
MOREFRAMES ANIMATION, LLC	2.2	13.5		2.2	0.0
JBS SCIENCE, INC		13.0			0.0
M.H. EBY, INC	29.0	12.9		29.0	0.0
DEVELOPMENT DIMENSIONS INTERNATIONAL, IN	25.1	12.8		0.0	0.0
NICHOLSON KOVALCHICK ARCHITECTS, INC		12.7			12.7
SLOAN BROTHERS COMPANY		12.7			0.0
HALLER ENTERPRISES, INC	10.5	12.5		0.0	12.5
TECHKNOWSERV CORPORATION	7.7	12.4		7.7	12.4
ZEPHYR ALUMINUM, LLC	10.3	12.4		10.3	0.0
QUALARIS HEALTHCARE SOLUTIONS, INC	10.8	12.4		10.8	12.4
SILBERLINE MANUFACTURING CO, INC	5.0	12.4		5.0	0.0
CIW ENTERPRISES, INC	13.1	12.0		0.0	0.0
WFE HOLDINGS, LLC	18.0	11.9		11.8	0.0
PHASEBIO PHARMACEUTICALS, INC	33.2	11.9		0.0	0.0
SPECIALTY MINERALS, INC	11.0	11.9		11.0	0.0
OAT FOUNDRY, LLC	3.8	11.8		3.8	11.8
TOWERSTAR PETS, LLC		11.8			0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
FORMS AND SURFACES, INC	23.9	11.6		23.9	11.6
PENN STATE INDUSTRIES, INC	29.3	11.6		29.3	11.6
INTEGRATED MANAGEMENT SOLUTIONS, INC	11.7	11.5		11.7	0.0
CHROMALOX, INC	3.4	11.4		3.4	0.0
K2 KINETICS, LLC		11.3			11.3
DEIBLER MACHINING, LLC	5.5	11.2		5.5	11.2
GLOBAL DATA MANAGEMENT SYSTEMS, LLC	35.7	11.1		0.0	0.0
STEIN SEAL COMPANY	12.6	11.1		0.0	0.0
BROTHERS, INC		11.0			0.0
OHM LABS, INC		10.9			10.9
EVOLENT HEALTH, INC		10.9			0.0
DATAFORMA INC	34.9	10.8		34.9	0.0
NEUTRONICS, INC	27.4	10.7		1.3	6.8
MIMEDX GROUP, INC	13.3	10.6		13.3	0.0
MECO CONSTRUCTORS, INC	16.6	10.6		16.6	0.0
WIZEHIVE, INC	20.6	10.6		20.6	10.6
PHOTOSONIX MEDICAL, INC	19.2	10.5		19.2	10.5
CALUMET SPECIALTY PRODUCTS PARTNERS, LP		10.5			0.0
NOVELTY MANUFACTURING CO	14.4	10.4		14.4	10.4
LUZERNE FARM, LLC	7.9	10.3		7.9	0.0
BRAYMAN HOLDING COMPANY, INC	1.4	10.2		0.0	0.0
QUEST DIAGNOSTICS OF PENNSYLVANIA INCORP	86.3	10.1		86.3	10.1
CHEMCUT HOLDINGS, LLC	3.8	10.1		3.8	0.0
LOOP SOFTWARE, LLC		9.9			0.0
DENTAL MARKETING INSIGHTS, LLC		9.9			0.0
TEAM TEN, LLC	22.5	9.8		22.5	9.8
RB DISTRIBUTION, INC	98.5	9.8		98.5	9.8
KORE MART LIMITED	9.4	9.7		9.4	0.0
CLOUD CHEMISTRY, LLC		9.6			0.0
ABEC, INC		9.6			0.0
GRUE & BLEEN, LLC	4.7	9.6		4.7	0.0
WTW ARCHITECTS, INC		9.3			0.0
VS NETWORKS, LLC		9.2			0.0
AP THERMOFORMING, LLC	5.4	9.2		0.0	0.0
INTEGRA LIFESCIENCES CORPORATION	9.2	9.1		9.2	9.1
PARKER WHITE METAL COMPANY	16.6	9.0		16.6	9.0
INNOVAGE, LLC		9.0			0.0
ALPINE SALES & RENTAL CORP	5.6	9.0		5.6	0.0
MECO DEMOLITION, INC	6.5	9.0		0.0	0.0
NICUSA, INC		8.9			8.9
VELOCITY.NET COMMUNICATIONS, INC	22.6	8.8		22.6	8.8
SECURESTRUX LIMITED, LLC		8.7			8.7
WOLFGANG OPERATIONS, LLC		8.6			0.0
MAGNETIC WINDINGS CO, INC	7.0	8.6		7.0	0.0
CENTER HARDWOOD, LLC	9.2	8.5		9.2	0.0
TRIGON HOLDING, INC		8.5			0.0
ASHLEY FURNITURE INDUSTRIES, INC		8.5			0.0
DAGOSTINO ELECTRONIC SERVICES, INC	15.8	8.5		15.8	8.5

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GILBERT ARCHITECTS, INC		8.5			8.5
MORGAN ADVANCED MATERIALS AND TECHNOLOGY		8.4			8.4
DIGITAL DREAM LABS, LLC	4.7	8.4		4.7	0.0
MONTGOMERY BROS. PLUMBING & HEATING, LLC	6.1	8.2		6.1	0.0
JAMESTOWN PAINT COMPANY		8.2			0.0
DIEHL CO, LLC		8.2			0.0
ROBINSON FANS, INC	11.6	8.1		0.0	0.0
THE ADEPT CORPORATION	1.8	8.1		1.8	0.0
MIKROS SYSTEMS CORPORATION		8.0			0.0
BIOHYBRID SOLUTIONS, LLC		7.9			0.0
SCIENCE APPLICATIONS INTERNATIONAL CORP	4.7	7.9		4.7	7.9
FILMTRONICS, INC		7.8			0.0
HAVPAK INTERNATIONAL, INC		7.8			0.0
DEMPSEY UNIFORM & LINEN SUPPLY, INC		7.8			0.0
ARMADA SUPPLY CHAIN SOLUTIONS, LLC		7.8			5.9
VAXFORM, LLC	19.6	7.7		0.0	0.0
GHD, INC		7.5			0.0
WORLD ELECTRONICS SALES AND SERVICE, INC		7.5			0.0
CARNEGIE ROBOTICS, LLC	24.8	7.5		0.0	0.0
ARTSKILLS, INC	13.3	7.5		0.0	0.0
THREERIVERS 3D, INC	16.0	7.5		10.6	0.0
BIOCHEM INSIGHTS, INC	5.9	7.3		0.0	0.0
FLEXSYS AMERICA, LP	22.9	7.3		0.0	0.0
CHARGEITSPOT, LLC	6.7	7.3		0.0	0.0
J K TOOL, INC		7.3			0.0
RUSHABH INSTRUMENTS, LLC		7.1			0.0
FOREVER, INC	23.2	7.1		23.2	7.1
NEVILLE CHEMICAL COMPANY	10.8	7.0		0.0	0.0
SIEMENS INDUSTRY, INC		7.0			0.0
COMMUNICATION SYSTEMS, INC	5.4	6.9		5.4	6.9
PLAN A, INC		6.9			0.0
SIMONA AMERICA, INC		6.8			6.8
BLATEK, INC		6.7			6.7
BALD EAGLE PRECISION, LLC	4.4	6.6		4.4	0.0
CLEAN EARTH, INC	10.9	6.6		10.9	6.6
TIMOTHY HAAHS & ASSOCIATES, INC	15.7	6.6		15.7	0.0
MAINSTREAM SWIMSUITS, INC	11.9	6.6		8.2	0.0
R&B LABORATORY, INC		6.5			6.5
KADCO CERAMICS, LLC	7.5	6.4		7.5	0.0
WOODWARD MCCOACH, INC		6.3			0.0
HOSLER CORP	0.8	6.2		0.8	0.0
FOXHOLE TECHNOLOGY, INC		6.2			6.2
LABORATORY TESTING, INC	18.6	6.2		8.0	0.0
JLS AUTOMATION, LLC		6.2			0.0
BULK CHEMICALS, INC	1.9	6.0		1.9	6.0
GEN7, INC		6.0			0.0
MIRIA SYSTEMS, INC	6.4	5.9		6.4	0.0
SAGE SOFTWARE, INC		5.9			0.0

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	2017	2018	2019	2017	2018
LUXTECH, LLC	21.0	5.9		0.0	5.9
AGR INTERNATIONAL, INC		5.8			0.0
OTREVA, LLC	3.2	5.8		0.0	5.8
ACROBATIQ, INC		5.7			5.7
DIVERSIFIED PACKAGING CONCEPTS, INC	1.4	5.6		1.4	0.0
ARMSTRONG UTILITIES, INC	7.2	5.6		7.2	0.0
HARRY MILLER CORPORATION	7.9	5.5		7.9	0.0
DELSTAR TECHNOLOGIES, INC		5.5			5.5
STUBHUB, INC	9.6	5.5		9.6	5.5
TRIGON PLASTICS, LLC		5.4			0.0
BETTWY ELECTRIC, INC	10.6	5.4		10.6	5.4
BLUE RIDGE PRESSURE CASTINGS, INC	13.3	5.3		0.0	0.0
ANTHONY FOLINO CONSTRUCTION, INC		5.3			0.0
ALTOONA ROOFING & SHEET METAL, INC		5.3			5.3
STRUCTURED MINING SYSTEMS, INC		5.3			0.0
MATRIX TOOL, INC		5.2			5.2
AETNA LIFE INSURANCE COMPANY	39.0	5.2		39.0	0.0
CREATIVE BENDING SYSTEMS, INC	1.9	5.0		1.9	0.0
STANDARD PRECISION MANUFACTURING INC		4.9			0.0
RICHTER PRECISION, INC	21.5	4.9		21.5	4.9
AMERICAN MANUFACTURING & ENGINEERING CORP	2.4	4.9		2.4	0.0
DVCC, INC AND SUBSIDIARIES	1.0	4.6		1.0	0.0
THREE M TOOL AND DIE CORP		4.6			4.6
DOUTT TOOL, INC	5.8	4.6		2.0	0.0
JCR SALES MFG., LLC	0.7	4.5		0.0	0.0
DYCO, INC	3.7	4.5		3.7	4.5
GEORGIA PACIFIC CORRUGATED, LLC		4.4			0.0
ARTSANA USA, INC	6.6	4.4		6.6	4.4
EDWARD MARC BRANDS, INC		4.3			0.0
QUAD GRAPHICS MARKETING, LLC	3.3	4.3		3.3	4.3
ACCUSOURCE, LLC	14.9	4.3		14.9	4.3
DEFIANCE METAL PRODUCTS OF PA, INC	4.0	4.2		4.0	4.2
SKC, INC	1.5	4.1		1.5	4.1
SEALSTRIP CORPORATION	4.5	4.1		4.5	0.0
GHD SERVICES, INC		4.0			0.0
R.G. STEEL CORP		3.9			0.0
EXECUTIVEPULSE, INC	1.4	3.9		0.0	0.0
HEETER PRINTING COMPANY	22.9	3.8		22.9	3.8
MISSION CRITICAL PARTNERS, INC	10.4	3.7		10.4	0.0
THE DIAL CORPORATION		3.7			0.0
FISHUSA, INC	2.8	3.7		2.8	0.0
RICHARDSON COOLING PACKAGES, LLC	2.5	3.7		2.5	0.0
FARO TECHNOLOGIES, INC	122.8	3.6		22.6	3.6
CELERO COMMERCIAL SOLUTIONS, LLC		3.6			3.6
STEWART & TATE, INC	9.4	3.5		9.4	3.5
ACOPIAN TECHNICAL COMPANY		3.5			3.5
HEALTHPLANCRM, LLC		3.5			0.0
ACCEL DIAGNOSTICS, LLC		3.4			3.4

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
HONEYWELL SAFETY PRODUCTS USA, INC	13.2	3.4		13.2	3.4
GEORGIA PACIFIC PANEL PRODUCTS, LLC		3.4			0.0
GOLDEN PROPORTIONS MARKETING, INC	44.1	3.4		0.0	0.0
ENGAGED PROSPECT, LLC		3.4			0.0
PITTSBURGH TECHNOLOGIES GROUP, INC		3.3			3.3
RIGHT REASON TECHNOLOGIES, LLC	7.5	3.3		7.5	0.0
ELLINGSON DRAINAGE, INC		3.2			0.0
M3 USA CORPORATION		3.1			3.1
ESTENDA SOLUTIONS, INC	35.6	3.1		35.6	0.0
TRICE MEDICAL, INC	19.5	3.0		0.0	0.0
MYACCLAIM, LLC		3.0			0.0
OATH AMERICAS, INC		2.9			2.9
SHIRLEYS COOKIE CO, INC		2.9			0.0
POSITEK RFID, LP	11.9	2.8		11.9	0.0
BALDWIN PUBLISHING, INC	6.6	2.8		0.0	0.0
E.A. FISCHIONE INSTRUMENTS, INC	7.1	2.8		7.1	0.0
DAWAR TECHNOLOGIES, INC	6.1	2.8		6.1	0.0
REAXIS, INC		2.7			0.0
TURNKEY TAXES, INC		2.7			0.0
DENTAL DESIGN LABS, INC	1.3	2.6		1.3	2.6
MILTON STEEL CO	0.7	2.6		0.7	1.9
X MATERIAL PROCESSING, LLC		2.5			2.5
C B P ENGINEERING CORP		2.5			0.0
SWING KINGDOM, LLC		2.5			2.5
SINTERFIRE, INC	6.4	2.5		1.4	2.5
TAMINCO CORPORATION		2.4			2.4
MORRIS KNOWLES & ASSOCIATES, INC		2.4			2.4
MICHELE LUCIEW		2.4			0.0
WINTER GARDENS QUALITY FOODS, INC	3.3	2.3		3.3	0.0
PENN STATE MECHANICAL CONTRACTORS, INC	6.6	2.3		6.6	2.3
ANDRITZ METALS, INC		2.3			0.0
SCHLOUCH INC	3.1	2.2		3.1	2.2
DASSAULT SYSTEMES BIOVIA CORP		2.2			2.2
DIVERSIFIED COATINGS, INC	6.0	2.0		6.0	0.0
PITTMOSS, LLC	1.7	2.0		1.7	0.0
APEXDROP, LLC		2.0			0.0
VICTAULIC FIRE SAFETY COMPANY, LLC		2.0			0.0
QUINN & ASSOCIATES, INC	2.7	2.0		2.7	2.0
INDECK KEYSTONE ENERGY, LLC		2.0			0.0
MATREYA, LLC		2.0			0.0
SPARK CURES, LLC	1.2	2.0		1.2	2.0
CHARLES BESELER COMPANY	6.4	1.9		6.3	1.9
NOVOTECH CONSTRUCTION, INC	9.5	1.9		9.5	1.9
YORK ICE CO., INC	2.2	1.9		2.2	1.9
SAMUEL STRAPPING SYSTEMS, INC		1.9			0.0
GULDEN OPHTHALMICS, INC		1.8			0.0
LOANLOGICS, INC		1.8			1.8
THE BEISTLE COMPANY		1.6			1.6

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
ATLAS MOLDING, LLC		1.6			1.6
EVEREST SOFTWARE, LP		1.6			0.0
PETCO ANIMAL SUPPLIES STORES, INC		1.6			1.6
TRINITY PLASTICS, INC		1.5			1.5
LEISTERS FURNITURE, INC		1.5			0.0
AMERICAN TEXTILE COMPANY, INC	2.0	1.5		2.0	0.0
READEEMING BEAUTY, INC	17.7	1.5		17.7	0.0
L.F. LAMBERT SPAWN COMPANY, INC	1.5	1.4		0.0	0.0
TYRONE MILLING	2.9	1.4		2.9	1.4
ANDURIL, INC		1.4			0.0
STOLTZ MFG, LLC	0.8	1.4		0.8	0.0
DARYL G. STANLEY		1.4			0.0
POLYMER PRODUCTS COMPANY, INC		1.3			1.3
DOCUMENT SOLUTIONS GROUP, INC		1.3			0.0
VERIZON SERVICES ORGANIZATION, INC		1.2			0.0
ANRO, INC	4.9	1.2		4.9	0.0
JACOB A. WEAVER COMPANY		1.2			0.0
TRY TEK MACHINE WORKS INC	3.7	1.2		3.6	1.2
CUSTOM LAMINATING CORPORATION	15.8	1.2		15.8	1.2
BLILEY TECHNOLOGIES INC	6.7	1.2		6.7	0.0
DRINKWORKS CORPORATION		1.2			0.0
CARPENTER POWDER PRODUCTS, INC	3.3	1.1		3.3	0.0
ARMSTRONG ACCUSPEC, LLC	2.6	1.1		0.0	0.0
WAWA, INC		1.1			0.0
BOYSEN, INC	2.9	1.1		2.9	1.1
GUARDIAN PROTECTION SERVICES, INC	5.3	1.1		5.3	0.0
GREINER EXTRUSION US, INC		1.0			1.0
NATIONAL GLASS AND METAL CO, INC	1.5	1.0		1.5	1.0
SMITH PROVISION CO, INC		1.0			1.0
IMG MIDSTREAM, LLC	37.1	1.0		0.0	0.0
SHIFT COLLABORATIVE, LLC	0.5	0.9		0.0	0.0
AQUAPHOENIX SCIENTIFIC, INC	8.0	0.9		8.0	0.0
RPM INDUSTRIES, LLC		0.9			0.0
UNI-TEC CONSULTING ENGINEERS, INC	4.4	0.9		4.5	0.0
HIREKU, INC	17.7	0.8		17.7	0.0
PRECISION SOLUTIONS, INC		0.8			0.0
INTEGRATED POWER DESIGNS, INC	4.5	0.8		4.5	0.8
X-F ENTERPRISES, INC	1.7	0.8		0.0	0.0
PRESSURE TECHNOLOGY		0.8			0.0
UNIQUE PRETZEL BAKERY, INC		0.7			0.0
TROY GROUP, INC		0.7			0.0
MIGHTY HOLDINGS, INC	4.9	0.7		4.9	0.0
MICHAEL & ASSOCIATES, INC		0.6			0.0
MCC INTERNATIONAL, INC	7.5	0.6		7.5	0.0
VERIZON PENNSYLVANIA, LLC		0.6			0.0
COYOTELIGHT, INC		0.6			0.6
PEACOCK LABORATORIES		0.6			0.0
NEATCAP MEDICAL, LLC		0.5			0.0

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
FORMTECH ENTERPRISES, INC		0.5			0.0
CHOITEK, LLC		0.5			0.0
PHB, INC		0.4			0.4
ONLINE STORES, LLC	0.9	0.4		0.0	0.0
WEBSTAIRANT STORE, INC		0.4			0.4
RAILROAD CITY BREWING COMPANY	0.1	0.4		0.1	0.0
INTERPHASE MATERIALS, INC		0.4			0.0
SWITCHEROO, LLC		0.4			0.0
GIORGIO FOODS, INC		0.3			0.0
CUSTOM MILLING & CONSULTING, INC	0.0	0.3		0.0	0.3
ACTON TECHNOLOGIES, INC		0.3			0.0
CRONAN SHEET METAL, INC	0.6	0.3		0.0	0.0
INTERSTACKS, INC	22.3	0.2		0.0	0.0
SEASONS EVOO HOLDINGS, LLC		0.2			0.0
JDV ROBOTICS, INC		0.2			0.0
BOOSE ALUMINUM FOUNDRY CO, INC	5.3	0.2		0.1	0.0
COMMERCE SERVICES, LLC	0.4	0.2		0.4	0.2
CARDINAL SYSTEMS, INC	3.1	0.1		0.0	0.0
TOLEDO FURNITURE, INC		0.1			0.0
QUINN ANALYTICS, LLC		0.1			0.0
SENTINEL CAMERA SYSTEMS, LLC		0.1			0.0
COSMOS TECHNOLOGIES, INC		0.0			0.0
SPARK THERAPEUTICS, LLC	790.7			0.0	
VITAE PHARMACEUTICALS, INC	726.8			726.8	
NOVARTIS PHARMACEUTICALS CORPORATION	693.5			693.5	
WINDTREE THERAPEUTICS, INC	600.8			0.0	
MERCK, SHARP & DOHME CORP	506.5			506.5	
ARMSTRONG FLOORING, INC	438.0			0.0	
MARINUS PHARMACEUTICALS, INC	405.7			0.0	
DATAWORKS ANALYTIC, INC	398.6			0.0	
BGFP GOOGLEDATACENTER, INC	384.6			0.0	
OPTIONALITY DIGITAL DATA CENTER, INC	364.5			0.0	
WHLRC ELECTRONIC OPTION AND FUTURE TRADING	357.6			0.0	
GREENE, TWEED & CO, INC	321.3			2.7	
ACCU MEASUREMENT TESTING, INC	279.5			0.0	
LASKO PRODUCTS, INC	266.0			0.0	
EDIGITAL DATA CENTER, INC	262.5			0.0	
ARAMARK	260.6			0.0	
COGNIZANT TECHNOLOGY SOLUTIONS US CORPORATION	233.7			233.7	
HAMILL MANUFACTURING COMPANY	198.6			38.6	
JLG INDUSTRIES, INC	196.7			196.7	
OPTIONBOTIC ALGORITHM SYSTEM, INC	184.2			0.0	
GLOBAL TECHNOLOGY ENTERPRISE	181.6			0.0	
AMERICAN FINANCIAL & TRADING RESEARCH, INC	167.1			0.0	
SCIENTIFIC SOFTWARE INTERNATIONAL	165.8			0.0	
QVC, INC	150.9			150.9	
PJ DICK INC	150.5			150.5	
CHERRY PICK, INC	148.3			0.0	

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
SWAPFORMORE, INC	147.4			0.0	
TEVA PHARMACEUTICALS USA, INC	137.2			137.2	
ABELLA, INC	117.5			0.0	
ONLINE STORE BUILDER, INC	116.9			0.0	
G&W LABORATORIES, INC	116.2			0.0	
ORANGE INNOVATION, INC	115.1			0.0	
MINITAB, INC	112.1			112.1	
AMERICAN COMPUTING, INC	110.7			0.0	
AINSWORTH PET NUTRITION, LLC	110.7			0.0	
AIROOLUTION, LLC	107.7			0.0	
AMERICAN MEASUREMENT AND QUANTITATIVE METHOD	106.1			0.0	
FAIRCHILD SEMICONDUCTOR CORPORATION	102.7			0.0	
LEHIGH CEMENT COMPANY, LLC	101.3			0.0	
THORLEY INDUSTRIES, LLC	94.8			0.0	
ACLARIS THERAPEUTICS, INC	93.6			0.0	
AMERICAN HIGH FREQUENCY TRADING, INC	90.2			0.0	
IPIPELINE, INC	87.4			53.1	
FIRE ENGINE RED, INC	87.3			87.3	
SIDECAR INTERACTIVE, INC	85.1			85.1	
VERIZON SERVICES CORP	83.4			83.4	
ALGORITHM EXPERT	75.0			0.0	
SWEET STREET DESSERTS, INC	71.7			0.0	
THE DIRECTV GROUP, INC	69.4			69.4	
CAMBER SPINE TECHNOLOGIES, LLC	67.7			67.7	
SCIQUEST, INC	67.2			27.2	
CONTEXT THERAPEUTICS, LLC	66.7			0.0	
LIQUENT, INC	65.8			37.0	
AIP/BI HOLDINGS, INC	65.6			65.6	
EXPRESS DYNAMICS, LLC	65.2			65.2	
STELKAST, INC	60.8			0.0	
ARC APPLICATIONS, INC	59.5			59.5	
BTG INTERNATIONAL, INC	58.1			58.1	
PHARMACEUTICAL MANUFACTURING RESEARCH SERVICES	57.9			0.0	
CONEWAGO ENTERPRISES, INC	56.7			0.0	
INTERNATIONAL MANAGEMENT CONSULTANTS, INC	55.2			0.0	
DURA-BOND INDUSTRIES	54.3			54.3	
CLUTCH HOLDINGS, LLC	54.0			54.0	
CONDUIT TECHNOLOGY, LLC	53.5			53.5	
US PIPELINE, INC	52.6			37.0	
TONIC DESIGN CO	52.0			52.0	
CLOUDMINE, INC	50.2			0.0	
RONDO-PAK, LLC	48.1			0.0	
MANAGEMENT SCIENCE ASSOCIATES, INC	47.8			0.0	
INDUSTRIAL SCIENTIFIC CORPORATION	47.8			25.5	
ADVANCED PLASMA SOLUTIONS, INC	47.8			47.8	
CERNER HEALTH SERVICES, INC	45.8			45.8	
IB ABEL, INC	45.3			45.3	
VEKA, INC	44.3			40.7	

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
GE HEALTHCARE IITS USA CORP	43.1			43.1	
ASHLEY HOLDINGS, INC	42.7			0.0	
MOMENTUM DYNAMICS CORPORATION, INC	40.4			40.4	
NORTH AMERICAN HOGANAS COMPANY	40.1			0.0	
INTERSTATE RESOURCES, INC	39.6			0.0	
BRANDING BRAND, INC	39.0			39.0	
MELIOR DISCOVERY, INC	38.0			38.0	
VECTR RESEARCH, LLC	37.5			0.0	
ALMAC CLINICAL TECHNOLOGIES, LLC	37.4			37.4	
CELLCO PARTNERSHIP	36.9			0.0	
LOBAR ASSOCIATES, INC	36.9			36.9	
VESUVIUS USA CORPORATION	36.3			36.3	
REFRIGERATION DESIGN & SERVICE, INC	34.4			34.4	
LEAF PHARMACEUTICALS, LLC	34.3			0.0	
RALEXAR THERAPEUTICS, INC	33.0			0.0	
MAGNESITA REFRACTORIES COMPANY	32.9			32.9	
TECHNISERV, INC	32.8			32.8	
ENVIRONMENTAL CONSTRUCTION SERVICES, INC	32.8			9.1	
SHELL GAMES, LLC	32.0			32.0	
CYTOVAS, LLC	31.8			31.8	
EAGLET US, INC	31.7			0.0	
STITCH, INC	29.9			29.9	
POWER CONVERSION TECHNOLOGIES, INC	29.5			29.5	
QUINTILES, INC	29.4			29.4	
LANGAN ENGINEERING ENVIRONMENTAL SURVEYING	28.3			0.0	
DVSPORT, INC	28.2			0.0	
USA TECHNOLOGIES, INC	27.3			0.0	
MICROMECHATRONICS, INC	26.9			5.1	
ASSETWORKS, INC	26.7			0.0	
HERBERT ROWLAND & GRUBIC, INC	26.6			26.6	
KWANTERA INC	25.6			25.6	
FIRST INSIGHT, INC	25.3			1.6	
ENERSYS DELAWARE, INC	24.7			0.0	
RENICK BROTHERS CONSTRUCTION COMPANY	23.7			23.7	
GENESIS MACHINERY PRODUCTS, INC	23.3			23.3	
CRAYOLA, LLC	23.0			0.0	
NEW ERA TECHNOLOGY, INC	22.5			22.5	
LIA DIAGNOSTICS, INC	22.2			0.0	
CROSSCURRENT BUSINESS ANALYTICS, LLC	22.1			22.1	
BIOMAGNETIC SOLUTIONS, LLC	22.1			22.1	
STANTEC CONSULTING SERVICES, INC	21.6			21.6	
CEWA TECHNOLOGIES, INC	21.5			21.5	
MACHINED METALS MANUFACTURING GROUP, INC	21.4			21.4	
HAVACO TECHNOLOGIES INC	21.2			21.2	
BERRY PLASTICS SP, INC	20.9			6.4	
CHROMATAN, INC	20.3			20.3	
ECOTECH MARINE, LLC	20.1			20.1	
NOWAIT, INC	19.5			19.5	

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	2017	2018	2019	2017	2018
ASTELLAS PHARMA GLOBAL DEVELOPMENT, INC	19.0			2.1	
WEBBER SMITH ASSOCIATES, INC	18.9			18.9	
PHOENIX CONTACT DEVELOPMENT MANUFACTURING, INC	18.9			18.9	
INNAVENTURE, LLC	18.7			18.7	
COINCO, INC	18.3			18.3	
MELIOR PHARMACEUTICALS I, INC	18.2			18.2	
OSHKOSH CORPORATION	17.6			17.6	
GECKO ROBOTICS, LLC	17.3			17.3	
WATSON STANDARD COMPANY	17.1			0.1	
VIDEON CENTRAL, INC	16.9			16.9	
WM J. DONOVAN CO	16.9			0.0	
FCI USA, LLC	16.9			16.9	
LUBBERING CORP	16.0			16.0	
THE EXONE COMPANY	15.4			0.0	
CONESTOGA WOOD SPECIALTIES CORPORATION	15.1			0.0	
ADVANCED RESEARCH SYSTEMS, INC	15.1			15.1	
TECH MOLDED PLASTICS, INC	15.0			15.0	
GOLBEHEALER, INC	14.8			0.0	
E CITY INTERACTIVE, INC	14.6			14.6	
PTR GROUP, LP	14.4			0.0	
RAJANT CORPORATION	14.3			14.3	
SATURN DESIGN GROUP, LLC	14.2			14.2	
AMERICAN MILLWORK AND CABINETRY, INC	14.2			14.2	
POWEREX, INC	14.2			14.2	
VERIZON BUSINESS NETWORK SERVICES, INC	14.2			0.0	
QUALITY TOOL AND DIE, INC	14.2			14.2	
O3 WORLD, LLC	14.2			14.2	
IMPACT APPLICATIONS, INC	13.9			13.9	
INGREDION INC	13.5			13.5	
RDC DESIGN GROUP, LLC	13.4			13.4	
J.B. POINDEXTER CO, INC	13.3			13.3	
CRYSTALPLEX CORPORATION	13.2			13.2	
KICKUP, INC	13.0			0.0	
RICHMOND ENGINEERING WORKS, LLC	12.9			0.0	
WEI HOLDING, INC	12.9			0.0	
READING ALLOYS, INC	12.8			12.8	
HENDRICK MANUFACTURING CO	12.7			12.7	
SPIRALGEN, INC	12.6			12.6	
BILLMELATER, INC	12.2			12.2	
SYNERGY ADVANCED PHARMACEUTICALS, INC	12.0			0.0	
N. HARRIS COMPUTER CORPORATION	11.8			8.4	
L&W APPAREL COMPANY, INC	11.7			11.7	
SUNBURY TEXTILE MILLS, INC	11.7			0.0	
WOODWARD MCOACH, INC	11.6			11.6	
CDC SOFTWARE, LLC	11.6			11.6	
EDOCS TECHNOLOGIES	11.5			11.5	
MARINE ACQUISITION US INC	11.5			0.1	
CLAIR BROS. AUDIO ENTERPRISES, INC	11.5			11.5	

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	2017	2018	2019	2017	2018
CORE DESIGN GROUP, LLC	11.3			11.3	
GROUSE RIDGE CAPITAL, LLC	11.1			11.1	
STOCK, GARBER AND ASSOCIATES, INC	10.9			10.9	
PHILADELPHIA TRAMRAIL ENTERPRISES, INC	10.9			0.0	
EDWARD MARC, INC	10.8			10.8	
BASIC CARBIDE CORPORATION	10.6			10.6	
INSTRUMENTATION INDUSTRIES, INC	10.3			0.0	
THE LANE CONSTRUCTION CORPORATION	10.3			10.3	
AP EXHAUST HOLDINGS, LLC	10.2			0.0	
CUSTOM PROCESSING SERVICES, LLC	10.1			0.0	
GRAPHENE FRONTIERS, LLC	10.1			0.0	
TBJ INC	10.0			10.0	
JAKO ENTERPRISES, LTD	10.0			0.0	
VISTACOM, INC	9.9			9.9	
CONNECTION ENERGY, LLC	9.7			9.7	
STAHL SHEAFFER ENGINEERING, LLC	9.7			9.7	
ENVIRONMENTAL ENERGY SOLUTIONS, LLC	9.6			9.6	
GO GREEN APU, LLC	9.5			9.5	
LONGEVITY BIOTECH, INC	9.2			9.2	
SUMITOMO CRYOGENICS OF AMERICA	9.1			9.1	
R-V INDUSTRIES, INC	9.0			9.0	
AKZO NOBEL COATINGS, INC	9.0			9.0	
MPP HOLDINGS, LLC	8.9			0.0	
NANOVISION DIAGNOSTICS, INC	8.8			8.8	
CONNEXUS TECHNOLOGY, LLC	8.8			0.0	
CRC INDUSTRIES, INC	8.7			8.7	
COOK, INC	8.7			0.0	
P-O SUBSIDIARY, INC	8.5			0.0	
MILKCRATE, LLC	8.5			8.5	
BRASKEM AMERICA, INC	8.5			8.5	
L3 TECHNOLOGIES, INC	8.2			8.2	
RED NUCLEUS SOLUTIONS, LLC	8.2			0.0	
HEALTH SCIENCES CONSTRUCTION GROUP LTD	8.0			0.0	
HORIZON SIGNAL TECHNOLOGIES, INC	8.0			8.0	
INFOMC, INC	8.0			0.0	
H.B. FRAZER COMPANY - PENNSYLVANIA	7.9			0.0	
PILOT AIR FREIGHT CORP	7.9			0.0	
DIAMONDBACK AUTOMOTIVE ACCESSORIES	7.8			7.8	
SPINWORKS INTERNATIONAL CORPORATION	7.7			0.5	
NASCENT DEVICES, LLC	7.6			7.6	
FUTURE POS, INC	7.6			7.6	
LIBERTY FOX TECHNOLOGIES, LLC	7.5			7.5	
RENDRFX, INC	7.4			7.4	
INNOVATIVE SUPPLY SOLUTIONS, LLC	7.4			7.4	
MEDIDATA SOLUTIONS, INC	7.4			7.4	
EMBEDDED ENERGY TECHNOLOGY, LLC	7.2			0.0	
ROCHLING MACHINED PLASTICS, LP	7.1			0.0	
SPARTAN MOTORS USA, INC	7.1			7.1	

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NAME	AWARDS (\$K)			UTILIZATIONS (\$K)	
	2017	2018	2019	2017	2018
INDIAN RIDGE PROVISIONS, INC	7.0			0.0	
APPERSON LABS, LLC	7.0			7.0	
LUNAMETRICS, LLC	6.9			6.9	
TWO MITTS, INC	6.8			6.8	
DR MARTIN FABRICATING	6.7			6.7	
PLEDGEPLATFORM, LLC	6.7			0.0	
MXL INDUSTRIES, INC	6.6			3.5	
NIELSEN-KELLERMAN, CO	6.6			0.0	
M-MECH DEFENSE, INC	6.5			4.5	
R&B LABORATORY, INC	6.4			6.4	
TRUCK-LITE CO., LLC	6.4			0.0	
IRA G. STEFFY & SON, INC	6.4			0.0	
RETTEW ASSOCIATES, INC	6.4			6.4	
GLOBALPOPS, INC	6.2			6.2	
COVEY, LLC	6.1			0.0	
GIFT CARD GRANNY, LLC	6.1			6.1	
THE STORK IB2C, INC	6.0			6.0	
TLC NORTH, LLC	6.0			6.0	
SAFRAN PUBLISHING COMPANY	6.0			0.0	
LEVEL INTERACTIVE, INC	5.9			0.0	
ON SEMICONDUCTOR CORPORATION	5.9			0.0	
CARBON FREIGHT COMPANY	5.9			0.0	
ASI TECHNOLOGIES, INC	5.8			0.0	
MESH, INC	5.7			0.0	
SAUCON TECHNOLOGIES	5.6			0.0	
RUBITECTION, INC	5.5			5.5	
DATTO, INC	5.4			0.0	
DEELOCAL, INC	5.2			5.2	
FRAGRANCE MANUFACTURING, INC	5.2			5.2	
DGNY, LLC CO. GOVBERG JEWELERS	5.2			0.0	
SOUTHWARK METAL MANUFACTURING COMPANY, INC	5.1			5.1	
UCOMPLI, LLC	5.1			5.1	
ADVANCED TEXTILE COMPOSITES, INC	5.0			0.0	
GOOD IDEAS, INC	4.9			0.0	
PRL INDUSTRIES, INC	4.7			0.0	
NEW METRO DESIGN, LLC	4.7			4.7	
ORBWEAVER SOURCING, LLC	4.7			0.0	
PREFERRED SECURITY COMPONENTS, INC	4.6			4.6	
JOSEPH BARBATO ASSOCIATES, LLC	4.6			4.6	
PAUL B. ZIMMERMAN, INC	4.5			4.5	
GLUZDOVCOM, INC	4.5			0.0	
LEVOLTA PHARMACEUTICALS, INC	4.4			0.0	
JAY FULKROAD AND SONS, INC	4.4			0.0	
UNIVERSAL ATLANTIC SYSTEMS, INC	4.4			0.0	
YAVI, LLC	4.3			0.0	
WHEELER BROS., INC	4.3			4.3	
BOSCH SECURITY SYSTEMS, INC	4.3			4.3	
VIDEOJET TECHNOLOGIES, INC	4.3			4.3	

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	2017	2018	2019	2017	2018
BAZOOKA JANE, INC	4.1			0.0	
TOASTER CREATIONS, LLC	4.0			0.0	
PHRQL, INC	3.9			3.9	
ROSS TECHNOLOGY CORPORATION	3.8			3.8	
Z-AXIS CONNECTOR COMPANY	3.7			0.0	
WIGGINS SHREDDING, INC	3.6			0.0	
TORVIAN, INC	3.6			0.0	
BEN PEOPLES INDUSTRIES	3.6			3.6	
PAPETTI HYGRADE EGG PRODUCTS, INC	3.6			0.0	
BELDEN, INC	3.6			3.6	
K-FAB, INC	3.5			3.5	
RORUS, INC	3.4			0.0	
VITRIUS TECHNOLOGIES, LLC	3.4			0.0	
GIRTON MANUFACTURING, INC	3.4			0.0	
PATRIOT SENSORS AND CONTROLS CORPORATION	3.1			3.1	
JONAS SOFTWARE USA, LLC	3.0			0.0	
SOLENOID SOLUTIONS, INC	2.9			2.9	
ROBERT P. LEPLEY ELECTRICAL CONTRACTOR, INC	2.8			0.0	
MARTIN ENERGY GROUP SERVICES, LLC	2.7			0.0	
IN THE STIX BROADBAND, LLC	2.7			2.7	
HAVIS, INC	2.7			2.7	
MATRIC LIMITED	2.6			0.0	
AGILESWITCH, LLC	2.6			2.6	
ANALYTICAL DESIGN SOLUTIONS, INC ADSI	2.6			2.6	
ST. MARYS BOX COMPANY	2.6			2.6	
SIEMENS MEDICAL SOLUTIONS USA, INC	2.5			0.0	
RANBAR ELECTRICAL MATERIALS, INC	2.5			2.5	
THREAD INTERNATIONAL PBC, INC	2.5			2.5	
II VI OPTICAL SYSTEMS, INC	2.5			2.5	
APPLIED EDUCATIONAL SYSTEMS, INC	2.4			2.4	
HCC/KPM, LLC	2.4			0.0	
LANCASTER OIL COMPANY	2.2			0.0	
WRIGHT LABS, INC	2.2			0.0	
ALDUS BREWING COMPANY	2.1			0.0	
WARNERS INNOVATIONS SOLUTIONS	2.1			2.1	
FLOWSERVE US, INC	2.1			2.1	
SOKOLIS TRANSPORTATION GROUP, INC	2.1			0.0	
TECHPRO BUILDING SERVICES, INC	2.0			0.0	
CUROTEC, LLC	2.0			0.0	
NE FOODS, INC	2.0			2.0	
LUMACLEAN, LLC	2.0			0.0	
WORKDESQ, LLC	2.0			2.0	
MODERN INDUSTRIES, INC	2.0			0.0	
XYVID, INC	2.0			0.0	
ACKER DRILL COMPANY INC	1.9			1.9	
QMAC - QUALITY MACHINING, INC	1.9			0.0	
GENUS TECHNOLOGIES, LLC	1.8			0.0	
NCA TECHNOLOGIES, INC	1.7			1.7	

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	2017	2018	2019	2017	2018
NETZSCH USA HOLDINGS, INC	1.7			1.7	
EPIDARUS THERAPEUTICS	1.7			0.0	
ROBAR INDUSTRIES, INC	1.5			1.5	
NOVA 6, LLC	1.5			1.5	
BRAYMAN PRECAST SOLUTIONS, LLC	1.4			1.4	
BLACKBAUD, INC	1.3			1.3	
TRIMETRIC ENTERPRISES, INC	1.1			1.1	
WARRIOR STRENGTH, LLC	1.1			0.0	
LORD CORPORATION	1.1			0.0	
EEME, LLC	1.1			0.0	
ASI BUSINESS SOLUTIONS, INC	1.1			1.1	
UNITED CHEMICAL TECHNOLOGIES, INC	1.1			1.1	
VASCOR, INC	1.1			0.0	
STRAHMAN VALVES, INC	1.0			1.0	
PENNFLEET CORP	1.0			1.0	
MOTORS DRIVES & CONTROLS, INC	0.9			0.0	
ENVIRONMENTAL MONITORING TECHNICAL	0.9			0.9	
HAMILTON PRECISION METALS, INC	0.9			0.9	
TRAIN CONTROL SYSTEMS, INC	0.8			0.0	
HEBI ROBOTICS, INC	0.8			0.0	
ATOPTIX, LLC	0.8			0.8	
GREENLEAF CORPORATION	0.8			0.0	
CALEDONIAN DYE WORKS, INC	0.8			0.0	
CROWS HEAD OUTFITTERS, LLC	0.7			0.7	
GJRPH, LP	0.7			0.0	
SEKISUI POLYMER INNOVATIONS, LLC	0.7			0.0	
C.U.E., INC	0.7			0.7	
TURNKEY TAXES, INC	0.7			0.7	
HGSI INVESTMENT SOFTWARE, LLC	0.6			0.0	
ROYSE GREEN TECHNOLOGIES, INC	0.6			0.0	
WAFFATOPIA, LLC	0.6			0.6	
FORTNA, INC	0.6			0.6	
JACOB A. WEAVER COMPANY	0.5			0.0	
NOVAPROBE INC	0.5			0.0	
GLEN CARBIDE, INC	0.5			0.5	
HARBOR STEEL, INC	0.5			0.0	
REGAL CAST, INC	0.5			0.0	
EDGE ROBOTICS, INC	0.5			0.0	
EXPII, INC	0.4			0.4	
HACH COMPANY	0.4			0.4	
SINKING VALLEY WOODWORKS, LLC	0.3			0.3	
MASHUP TECHNOLOGIES, LLC	0.3			0.1	
AIR MANAGEMENT TECHNOLOGY, INC	0.3			0.0	
WESANDA DESIGN, INC	0.3			0.3	
ERIE BEARINGS CO.	0.2			0.0	
GENERAL MACHINE PRODUCTS CO, INC	0.2			0.0	
ROBERT MAZZA, INC	0.2			0.2	
CONIDIO TEC, LLC	0.2			0.0	

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	2017	2018	2019	2017	2018
NEWAGE TESTING INSTRUMENTS, INC	0.2			0.2	
ROBINSON VACUUM TANKS, INC	0.2			0.0	
BECKMAN COULTER, INC	0.1			0.1	
HILLSIDE EQUITY, INC	0.1			0.0	
LCM TECHNOLOGIES, INC	0.1			0.0	
TAIT FARM FOODS, INC	0.1			0.1	
	55,000.0	55,000.0	55,000.0	31,288.2	28,374.0