# Report to the Pennsylvania General Assembly on the Research and Development (R&D)

## **Tax Credit**



The Pennsylvania Department of Revenue

Bureau of Research

#### The Pennsylvania R&D Tax Credit Statute

Act 48 of 2009 reduced the total amount of R&D tax credit available in FY 2009-10 from \$40 million to \$20 million and in FY 2010-11 from \$40 million to \$18 million. Starting in FY 2011-12, the total amount of R&D tax credit the Department can award returns to \$40 million per year.

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On May 7, 1997, Act 7 of 1997 created the Pennsylvania research and 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 expense.<sup>1</sup>

Over the years, several changes have been made to the R&D tax credit statute. On December 23, 2003, Act 46 of 2003 was signed into law. Then, on July 12, 2006, Act 116 of 2006 was signed into law. Lastly, Act 48 of 2009 was signed into law on October 9, 2009. All three laws made several significant revisions to the R&D tax credit provisions.

For R&D tax credits issued from December 1997 through December 2003, the Department of Revenue (Department) could not approve more than \$15 million in total tax credits in any fiscal year. Additionally, \$3 million of the \$15 million was set aside for "small" businesses, where a "small business" is 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)."

Act 46 of 2003 doubled the total amount of R&D tax credits the Department could issue to \$30 million for tax credits awarded in December 2004 and December 2005. Act 46 of 2003 also doubled the "small" business set aside to \$6 million for R&D tax credits awarded by the Department in December 2004 and December 2005.

Act 116 of 2006 raised the total amount of R&D tax credits the Department could issue to \$40 million for tax credits awarded in December 2006 and forward. Act 116 of 2006 also raised the "small" business set aside amount to \$8 million for R&D tax credits awarded by the Department in December 2006 and forward.

Act 48 of 2009 reduced the total amount of the R&D tax credits the Department could issue by 50 percent to \$20 million in December 2009 and by 55 percent to \$18 million in December 2010. The "small" business set aside is similarly reduced for both years. Act 48 of 2009 also

<sup>&</sup>lt;sup>1</sup> Public Law 99-514, 26 U.S.C. § 41.

<sup>&</sup>lt;sup>2</sup> Subject to the provisions of Act 48 of 2009.

removed the one year holding period before an R&D tax credit can be assigned or sold. Beginning again in December 2011, the Department will issue a total of \$40 million in tax credits and the "small" business set aside will be \$8 million per year.

One of the more noteworthy features of the R&D tax credit program is the ability for R&D tax credit recipients to sell unused tax credits to other taxpayers. Act 46 of 2003 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. According to Act 48 of 2009, for R&D tax credits awarded in December 2009 and forward, the one year holding period is no longer in effect; credits awarded in 2009 and forward can be sold immediately. The purchaser or assignee must still 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 percent 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.

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). Taxpayers claiming the credit against any of these taxes may not reduce their tax liability for taxable years 2004 and earlier by more than 50 percent. Act 46 of 2003 eliminated this provision starting with tax year 2005; a taxpayer will be able to use the awarded R&D tax credit to reduce a given tax liability by up to 100 percent. Taxpayers awarded R&D tax credits by the Department may carry over and apply any unused tax credit for up to fifteen (15) succeeding taxable years.

The Pennsylvania R&D tax credit, which is calculated using the increase over the taxpayer's base year research expenses for qualified R&D conducted within Pennsylvania, originally generated a tentative credit at the rate of 10 percent. However, Act 116 of 2006 increased the rate at which the tentative R&D tax credit is calculated to 20 percent for small businesses only beginning with the credit awarded in December 2006 and forward.

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.

Under Act 7 of 1997, the R&D tax credit provisions were to sunset for taxable years ending after December 31, 2004. Act 89 of 2002 extended the sunset date for the program until December 31, 2006. Act 116 of 2006 further extended the sunset date for R&D tax credit program for taxable years ending before January 1, 2016. The Department cannot approve any R&D tax credits for any period beyond this date.

#### Major R&D Tax Credit Provisions in Act 46 of 2003

Act 46 of 2003 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 and for each year thereafter. 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 2008, 2009 and 2010, along with the amount of credit received and utilized. In an effort to control the size of the document, this report will only list the names of

taxpayers who have received the R&D tax credit in the current year and the two preceding years. Reports from earlier years will still be available that retain information on earlier years.

The other major change in the R&D tax credit program made by Act 46 of 2003 was the creation of the R&D Tax Credit Assignment Program. The program, which is primarily administered by DCED, permits taxpayers with unused R&D tax credits to sell them for cash to other taxpayers who can use them. The goal of the program is to "assist the growth and development of technology-oriented businesses, particularly small start-up technology businesses." These small start-up firms, which often do not have significant tax liabilities in their early years, receive cash for their unused R&D tax credit. The purchasers of the unused R&D tax credit are then able to partially offset their own tax liabilities with the credit.

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.<sup>5</sup>

The buyer of the unused R&D tax credit can use it to offset up to 75 percent of a qualified tax liability in a tax year. The buyer cannot carry forward, carry back, get a refund for 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 R&D tax credit.

An R&D tax credit will be considered to be unused and, therefore, available for sale as long as it is not applied against a specific tax year liability and the taxpayer does not have a collectible tax liability. As of February 2011, about \$27.4 million of the \$215 million awarded in December 2003 through 2009 has not been utilized and is, therefore, available for sale. The breakdown of unused tax credits sold or assigned by year are shown in Table 1.

Tax credit sales are often arranged by a broker, who provides a service by bringing together sellers and buyers of credits, and in return takes a portion of the tax credit as their fee. The Department does not have complete data about these arrangements. DCED staff have stated that the level of broker fees can vary widely, but the average broker fee is in the range of 5% to 6% of the value of the credit.

<sup>&</sup>lt;sup>3</sup> "Research and Development Tax Credit Assignment Program Guidelines," DCED, September 2004.

<sup>&</sup>lt;sup>4</sup> "Unused R&D tax credits" means that the taxpayer has not applied the tax credits against a specific tax year liability. Further, the taxpayer cannot sell the tax credit if it has any unpaid liabilities against which the tax credit could be used.

<sup>&</sup>lt;sup>5</sup> For more information on the application process, see "Research and Development Tax Credit Assignment Program Guidelines," DCED, September 2004, or contact DCED, Technology Investment Office, (717) 787-4147.

Table 1. Pennsylvania Research & Development Tax Credit Program Statistics on the Sale or Assignment of Unused R&D Tax Credits

(\$millions)

Year	D Credit warded	nused Tax Credits d/Assigned	Number of Taxpayers Sold/Assigned Unused Credit	 used Tax ts Sold For	Percent of Value Unused Tax Credits Sold For
2003	\$ 15.0	\$ 1.3	18	\$ 1.1	91.4%
2004	\$ 30.0	\$ 3.6	43	\$ 3.2	89.8%
2005	\$ 30.0	\$ 9.0	48	\$ 8.4	93.3%
2006	\$ 40.0	\$ 7.2	67	\$ 6.6	92.5%
2007	\$ 40.0	\$ 7.3	78	\$ 6.9	94.1%
2008	\$ 40.0	\$ 6.5	102	\$ 5.9	91.9%
2009	\$ 20.0	\$ 2.4	56	\$ 2.2	91.6%
TOTAL	\$ 215.0	\$ 37.2		\$ 34.4	92.5%

#### R&D Tax Credit Claimed and Awarded in Pennsylvania for December 2010

Table 2 shows the amount of R&D tax credit approved by the Department in 2010 for qualified research expenditures made by taxpayers in Pennsylvania in taxable year 2009. Without the \$18 million cap, just over \$94 million in credit would have been awarded to 488 taxpayers. 90 percent of approved taxpayers received an R&D tax credit of less than \$50,000, receiving 23.6 percent of the total amount of approved credit. Taxpayers with an approved R&D tax credit of \$50,000 or more claimed 76.4 percent of the approved credit amount. The 49 applicants receiving \$50,000 or more in credit represented 10 percent of the total number of applicants.

Table 2. Pennsylvania Research & Development Tax Credit Program
Tentative and Actual Credit for Tax Year 2010<sup>6</sup>

Actual Credit Range	Number of Applicants	Percent of Applicants	Tentative Credit Amount	Actual Credit Amount	Percent of Actual Credit
\$0 - \$4,999	219	44.9%	\$2,036,505	\$461,037	2.6%
\$5,000 - \$19,999	148	30.3%	\$6,222,331	\$1,524,975	8.5%
\$20,000 - \$49,999	72	14.8%	\$9,321,440	\$2,266,418	12.6%
\$50,000 - \$99,999	29	5.9%	\$10,404,612	\$2,059,283	11.4%
\$100,000 - \$499,999	15	3.1%	\$16,271,821	\$3,283,212	18.2%
\$500,000 - \$999,999	1	0.2%	\$3,787,581	\$634,631	3.5%
\$1,000,000 & greater	4	0.8%	\$46,375,271	\$7,770,444	43.2%
TOTAL	488	100%	\$94,419,561	\$18,000,000	100%

Table 3 details the tentative amount of R&D tax credit approved by the Department in the preceding 13 years, beginning with the inception of the program in December 1997.

<sup>&</sup>lt;sup>6</sup> Detail may not add up due to rounding; 134 other applicants were rejected and did not receive any credit.

Table 3. Pennsylvania Research and Development Tax Credit Program
Tentative Credit Awarded for 1997-2009

Credit Awarded In	Number of Applicants	Tentative Credit Amount
December 1997	292	\$66,371,038
December 1998	270	\$56,572,339
December 1999	275	\$53,456,489
December 2000	284	\$59,207,493
December 2001	293	\$71,407,604
December 2002	254	\$74,255,800
December 2003	242	\$70,191,922
December 2004	274	\$70,932,913
December 2005	291	\$65,806,128
December 2006	379	\$78,640,025
December 2007	439	\$94,732,918
December 2008	466	\$90,712,865
December 2009	507	\$80,208,000

Table 4 presents the R&D tax credit approved in December 2010 by business type.

 Table 4. Pennsylvania Research and Development Tax Credit Program

**Actual Credits by Business Type in 2010** 

Business Type	Number of Taxpayers	Percent of Taxpayers	Amount of Actual Credit	Percent of Actual Credit
Manufacturing	266	54.5%	\$ 11,943,922	66.4%
Services	174	35.7%	\$ 5,467,294	30.4%
Misc. <sup>7</sup>	48	9.8%	\$ 588,784	3.3%
TOTAL	488	100%	\$ 18,000,000	100%

Over 54 percent of the taxpayers receiving the tax credit were manufacturers, claiming just over 66 percent of the total amount of approved credit. Pharmaceutical manufacturers claimed the largest single share; the 13 pharmaceutical manufacturers requesting credit were awarded \$6.2 million in credit. Another large group of credit recipients included 48 computer-related companies in the service sector. They claimed just over \$0.8 million in credit in 2010.

<sup>&</sup>lt;sup>7</sup> Misc. business type includes business activities associated with individuals or corporations with North American Industry Classification System (NAICS) codes for the agriculture, construction, utilities, wholesale, retail or financial, insurance and real estate sectors.

488

**TOTAL** 

100%

\$18,000,000

Table 5 provides a breakdown of the R&D tax credit claimed by "small" and "not small" businesses in December 2010. As noted earlier, "small" businesses are those with net book assets of less than \$5 million.

					Percent of
	Number of	Percent of	Tentative	Approved	Approved
Business Size	Applicants	Applicants	Credit Amount	Credit Amount	Credit
Small	213	43.6%	\$ 8,487,767	\$ 3,600,000	20.0%
Not Small	275	56.4%	\$85,931,794	\$14,400,000	80.0%

\$94,419,561

100%

Table 5. Pennsylvania Research and Development Tax Credit Program
Small and Not Small Businesses in 2010

In December 2010, "small" businesses claimed the entire \$3.6 million in R&D tax credit set aside for them; "small" businesses received 42.4 percent of the credit for which they applied. This is only the fourth year in the history of the program that the whole "small" business set aside has been claimed. Last year, "small" businesses received the entire \$4 million in R&D tax credit set aside for them; they received 46 percent of the credit amount for which they applied. The \$18 million program cap reduced the amount of credit approved for the "not small" businesses to 16.8 percent of the requested amount. Last year, "not small" businesses received 22.4 percent of the amount of credit they requested. The decrease in the cap from \$20 million to \$18 million, along with an increase of \$14.4 million in the tentative amount of credit requested in 2010 over 2009, is responsible for lowering these percentages for December 2010 versus December 2009 awards.

Table 6 shows the history of the R&D tax credit for the "small" business set aside for 1997 through 2009. The first year in which "small" businesses claimed the total amount of credit set aside for them was 1999 when the limit was \$3 million. Act 46 of 2003 increased the "small" business set aside to \$6 million for R&D tax credits awarded beginning in December 2004. Act 116 of 2006 raised the "small" business set aside to \$8 million for R&D tax credits awarded beginning in December 2006. The second year in which "small" businesses claimed the total amount of credit set aside for them was 2008 when the limit was \$8 million. The third year in which "small" businesses claimed the total amount of credit set aside for them was 2009 when the limit was temporarily lowered to \$4 million. When "small" businesses claim less than the R&D credit set aside for them, the "not small" businesses receive a pro-rated amount of the excess R&D tax credit not claimed by the "small" businesses.

Table 6. Pennsylvania Research and Development Tax Credit Program History of the Small Business Set Aside, 1997-2009

Credit Awarded In	Number of Applicants	Tentative Credit Amount	Approved Credit Amount
December 1997	67	\$ 889,054	\$ 889,054
December 1998	85	\$1,821,354	\$1,821,354
December 1999	82	\$3,001,986	\$3,000,000
December 2000	83	\$1,545,359	\$1,545,359
December 2001	75	\$1,373,382	\$1,373,382
December 2002	79	\$1,615,602	\$1,615,602
December 2003	81	\$1,082,263	\$1,082,263
December 2004	94	\$1,419,845	\$1,419,845
December 2005	108	\$2,268,046	\$2,268,046
December 2006	173	\$7,081,079	\$7,081,079
December 2007	193	\$6,845,879	\$6,845,879
December 2008	205	\$8,052,975	\$8,000,000
December 2009	211	\$8,688,383	\$4,000,000

Table 7 shows the amount of R&D tax credit that has been applied to CNIT, CSFT and PIT for taxable years 1997 through 2008. The data in Table 7 are only for taxpayers that have directly received the tax credit from the Department. Taxpayers that have purchased an unused tax credit are not included in this table.

The first taxable year against which the credit could be used was 1997. 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 2011.

Table 7 shows the distribution of the R&D tax credits that have been applied to specific tax years. As of February 2011, about 76 percent of the \$285 million in R&D tax credit that has been awarded for 1997 though 2008 has been applied to specific tax periods. About 47.8 percent of the credit awarded has been applied to the CSFT; 47.8 percent has been applied to the CNIT. Approximately 4.5 percent of the credit awarded that has been applied has been applied to the PIT. 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 settlement, resettlement or the application of other credits.

Table 7. Pennsylvania Research and Development Tax Credit Program
Application by Tax Type and Taxable Year, 1997-2008

Taxable Year			Capital Stock & Franchise Tax		Personal Income Tax	Number of Taxpayers
1997	\$ 4,808,403	93	\$ 3,572,614	182	\$ 187,863	91
1998	\$ 2,785,282	90	\$ 5,187,915	189	\$ 791,636	195
1999	\$ 3,333,375	100	\$ 6,249,500	224	\$ 439,671	162
2000	\$ 4,495,931	77	\$ 6,410,798	189	\$ 523,087	201
2001	\$ 6,364,344	82	\$ 7,021,941	202	\$ 534,126	173
2002	\$ 7,919,918	48	\$ 5,179,615	207	\$ 487,586	169
2003	\$ 8,733,454	62	\$ 8,139,696	208	\$ 337,985	154
2004	\$ 14,764,303	64	\$ 8,151,332	256	\$ 709,007	166
2005	\$ 12,123,216	64	\$ 14,201,226	279	\$1,067,880	176
2006	\$ 10,511,961	80	\$ 14,599,967	309	\$1,602,996	231
2007	\$ 12,587,324	94	\$ 13,288,813	352	\$1,764,727	233
2008	\$ 14,593,669	88	\$ 10,993,272	401	\$1,169,376	276
TOTAL	\$103,021,179		\$102,995,685		\$9,615,940	

It should be noted that it is possible that some portion of the R&D tax credit awarded by the Department might never be used against a tax year liability, particularly those credits not affected by the provisions of Act 46 of 2003. One possible reason for non-use is a reorganization in which a taxpayer claiming the credit goes out of existence or merges with another business before applying the credit against a tax liability. Another observation about usage of the tax credit is that, for taxable years prior to 2005, the amount of credit a taxpayer could claim against a tax type in one tax year was limited to 50 percent of the tax liability. This provision had ensured that a taxpayer could not totally eliminate a tax liability using only the R&D tax credit. However, Act 46 of 2003 eliminated the 50 percent limit. This fact, combined with the 15-year carryover, should allow taxpayers to receive most, if not all, of the tax benefit of the credit. Further, the provision in Act 46 of 2003 allowing the sale or assignment of any unused R&D tax credit awarded in December 2003 and after should minimize how much R&D tax credit is not utilized.

Current law reduces the CSFT rate each year until the tax is completely eliminated for taxable years beginning on or after January 1, 2014. Once the CSFT is eliminated, the R&D tax credit can no longer be claimed against it. This is important for S corporations and LLCs that are primarily subject to the CSFT, not the CNIT. S corporations and LLCs may pass the tax credit through to shareholders who can claim it against their PIT. The final year that the R&D tax credit will be awarded is 2015. Therefore, S corporations and LLCs, in order to use the R&D tax credit after 2014, will have to either apply it against PIT or sell their unused tax credits. They will be able to carry it forward for up to 15 taxable years.

#### Taxes Paid by R&D Tax Credit Recipients

Table 8 shows the CNIT and CSFT liabilities for taxable year 2008 (the latest year for which reports are available for all taxpayers) for taxpayers receiving the R&D tax credit in 2010. Table 8 and Table 4 have a similar structure in order to provide comparability. Please note that taxpayers claiming the credit against the personal income tax are not included in these data. Also, taxpayers who purchased unused R&D tax credit are not included in these data.

Business Type	2008 CSFT Liability	2008 CNIT Liability
Manufacturing	\$17,122,678	\$105,961,312
Services	\$ 4,572,444	\$ 8,627,477
Misc.	\$ 3,561,381	\$ 13,133,944
TOTAL	\$25,256,503	\$127,722,733

Table 8. Pennsylvania Research and Development Tax Credit Program
Taxable Year 2008 Tax Liabilities by Business Type

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 2010 to the total tax year 2008 self-assessed CNIT and CSFT liabilities<sup>8</sup>. Of the 483 taxpayers receiving the R&D tax credit in 2010 that are subject to the CNIT or CSFT, their total self-assessed 2008 tax year CNIT and CSFT liabilities totaled \$153 million. Though there are obviously varied ratios per individual taxpayer, overall the amount of tax credit awarded represents 11.8 percent of the self-assessed tax amount and 61.7 percent of the amount of the R&D tax credit requested.

The total 2008 CSFT liability for S corporations and LLCs receiving the R&D tax credit in 2010 was \$0.7 million. Out of the 165 Pennsylvania S corporations or LLCs, 58 had a CSFT liability of zero for 2008. The total 2008 CSFT liability for C corporations receiving the R&D tax credit in 2010 was \$24.6 million. Out of the 318 C corporations, 75 had a CSFT liability of zero for 2008.

The 318 C corporations receiving the tax credit in 2010 had a total taxable year 2008 CNIT liability of \$127.7 million. Of these companies, 190 were C corporations with a taxable year 2008 CNIT liability equal to zero, due to either zero or negative net income in taxable year 2008. In most cases, the income of Pennsylvania S corporations and LLCs is passed through to the individual owners and subject to the personal income tax. However the CNIT paid reported here does include a small amount of tax revenue paid by five S Corporations for tax year 2008.

#### Federal R&D Tax Credit Program

The federal government first adopted the R&D tax credit in 1981. The federal government does not cap the total credit amount that can be claimed in a taxable year. Despite the effort of some members of Congress, the R&D tax credit has never been a permanent part of the Internal Revenue Code (IRC). It has been extended twelve times (most recently in December 2010) and lapsed on nine occasions (1986, 1992, 1995, 1997, 1999, 2004, 2005, 2007 and 2009). Under current federal law, the R&D tax credit expires on December 31, 2011.

 $<sup>^{8}</sup>$  In some cases, the tax liability may have been self-assessed and settled.

As long as the federal R&D tax credit is not repealed and removed from the IRC, the definition and terms remain in effect for state level calculations. However, when the federal R&D tax credit is lapsed, it is possible that the Commonwealth could lose applicants that, since they would not file out the federal forms, would not go through the trouble of filing the state forms. This would be especially true for companies that qualify for relatively small amounts of state R&D tax credits or for companies that face sizable fees from tax preparers for filing the state R&D tax forms.

The public policy goal of the R&D tax credit is to encourage the private sector to increase R&D spending, which in turn serves as a catalyst to economic growth by increasing productivity through the utilization of new technology. The credit is justified in economic theory on the basis of market failure, which occurs because firms may under-invest in R&D when they tend to not recoup all associated costs of investing in R&D. Hence, less R&D occurs than would be economically optimal for the economy as a whole. The R&D tax credit is a method for lowering the cost of R&D to private firms and increasing the return on investment. By increasing the rate of return on investment, the R&D tax credit encourages more R&D than would occur if the credit did not exist.

#### **R&D** Expenditures in Pennsylvania and the United States

In 1995, according to the National Science Foundation, private industry in Pennsylvania spent \$4,955 million on R&D expenditures. This was about 4.6 percent of the total R&D expenditures by private industry in 1995 in the United States (\$108,652 million).

By 2007, the total amount of R&D expenditures in Pennsylvania by private industry had risen to \$10,916 million. This was an increase over the 12 year period of 120.3 percent. Over the same period, total R&D expenditures by private industry in the United States had risen by 147.8 percent to a level of \$269,267 million. For 2007, R&D expenditures in Pennsylvania by private industry were about 3.9 percent of total R&D expenditures by private industry in the United States. Pennsylvania ranked 9<sup>th</sup> in the entire US in R&D spending by private industry in 2007.

For comparison sake, the 488 R&D tax credit applicants in 2010 had total R&D expenditures in 2009 of \$3,573.6 million. Not all R&D done by industry in Pennsylvania is performed by R&D tax credit applicants.

A paper presented at the November 2007 meeting of the National Tax Association (NTA) examined the impact of state R&D tax credits in stimulating industrial R&D activity. The paper concluded that "overall, the R&D credit does not seem to play an important role in stimulating R&D activity across all states." However, the paper pointed out that the results are preliminary and that more work needed to be done to better estimate the value of the credit.<sup>9</sup>

A study released in April 2008<sup>10</sup> by the R&D Credit Coalition, an organization of trade associations and companies dedicated to the permanent establishment of the federal R&D tax credit, examined the broad impact of the R&D tax credit in 2005. The study found that R&D spending by the private sector in 2005 in Pennsylvania amounted to 1.97 percent of the private sector Gross State Product (GSP). For comparison sake, the study also found that R&D spending by the private sector in 2005 in the United States amounted to 1.88 percent of the private sector GSP.

<sup>&</sup>lt;sup>9</sup> "Effect of State R&D Tax Credits in Stimulating State Industrial R&D Activity," Prepared by Laura Wheeler and Sally Wallace, Presented at the National Tax Association (NTA) Proceedings from the 100<sup>th</sup> Annual Conference in Columbus, OH, November 2007.

<sup>&</sup>lt;sup>10</sup> "Supporting innovation and economic growth: The broad impact of the R&D credit in 2005," Prepared by Ernst and Young LLP for the R&D Credit Coalition, April 2008.

According to a November 2009 study released by the Government Accountability Office (GAO), large corporations in 2005 dominated the use of the federal R&D tax credit, similarly mirroring usage of the R&D tax credit here in Pennsylvania. Further, the GAO found that the federal R&D tax credit in 2005 provided an average marginal incentive of between 6.4 to 7.3 percent. In other words, the federal R&D tax credit stimulated an additional amount of research spending in the United States of between 6.4 percent to 7.3 percent at the business level. <sup>11</sup>

#### **R&D Tax Credit Programs in Other States**

A majority of states that have a corporate net income tax have sought to capture the potential benefits of encouraging R&D within their state by enacting an R&D tax credit. There are 32 other states besides Pennsylvania that provide for R&D tax credits. Most incorporate provisions of current or former R&D credits under the Internal Revenue Code. 12

New Jersey's R&D tax credit is like Pennsylvania's in that it mirrors the federal R&D tax credit. However, New Jersey's R&D tax credit statute does not cap the total amount of credit that can be awarded in a year. Like the Pennsylvania R&D tax credit prior to Act 46 of 2003, there is a 50 percent cap on the amount of credit that a taxpayer can apply against its tax year liability. In fiscal year 2009, \$63.2 million in R&D tax credit was claimed in New Jersey. Additionally, the New Jersey R&D tax credit statute allows certain biotech and emerging technology companies to sell unused R&D tax credits to any company paying the corporate net income tax. After Act 46 of 2003, all companies receiving the Pennsylvania R&D tax credit, regardless of their business sector, can sell or assign any unused R&D tax credits awarded beginning in December 2003.

#### Effectiveness of the Pennsylvania R&D Tax Credit Program

The time frame 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 only had a potential impact on increasing research expenses in thirteen years, 1997 through 2009. Although 1996 Pennsylvania research expenses were used to calculate the credit in 1997, the taxpayer's R&D decisions could not have been affected by the credit prior to enactment of Act 7 in May 1997. Also, the changes made by Act 46 of 2003 altered several parameters of the program that could impact the effectiveness of the R&D tax credit. Lastly, it remains to be seen what effect the recent economic downturn has had on R&D spending by private industry. However, some observations can be made about the effectiveness of the Pennsylvania R&D tax credit in its relatively short existence.

Over the lifetime of the R&D tax credit program, 1,629 different taxpayers have been awarded some amount of credit. The number of taxpayers qualifying for the tax credit due to increased Pennsylvania research expenditures is still expanding, though there is some volatility from taxable year to taxable year regarding Pennsylvania research expenditure amounts.

Of the 488 taxpayers receiving the R&D tax credit in 2010, 170 were either Pennsylvania S corporations, LLCs or LLPs (limited liability partnerships) and 318 were C corporations. The S

<sup>&</sup>lt;sup>11</sup> "The Research Tax Credit's Design and Administration Can Be Improved", Prepared by the Government Accountability Office (GAO), GAO-10-136, November 2009.

<sup>&</sup>lt;sup>12</sup> CCH Incorporated, Multistate Charts, ¶680-200 Credits for Investment/Research Activities.

<sup>&</sup>lt;sup>13</sup> Companies with 225 employees or less may sell unused R&D tax credits in New Jersey.

corporations, LLCs, or LLPs received \$1.8 million in R&D tax credit, while the C corporations received \$16.2 million.

The 488 taxpayers claiming the R&D tax credit in 2010 had total Pennsylvania research expenditures in taxable year 2009 of \$3,573.6 million. This was a 24.2 percent increase compared to their total Pennsylvania research expenditures in taxable year 2008 of \$2,877.7 million.

#### **Impact on Not Small Businesses**

Out of the 488 taxpayers receiving the tax credit in 2010, 275 did not qualify as "small" businesses. Their total Pennsylvania research expenditures in taxable year 2009 were \$3,454.4 million, a 24.0 percent increase over their taxable year 2008 Pennsylvania research expenditures of \$2,785.7 million.

Of the 275 "not small" businesses, 211 increased their Pennsylvania research expenditures in taxable year 2009 over taxable year 2008 by 32.1 percent in the aggregate. Their Pennsylvania research expenditures in taxable year 2009 rose to \$3,027.5 million from \$2,292.5 million in taxable year 2008. Only 64 of these businesses reduced their Pennsylvania research expenditures over the same period. Their Pennsylvania research expenditures in taxable year 2009 declined by 13.4 percent to \$426.9 million from \$493.1 million in taxable year 2008.

#### **Impact on Small Businesses**

Out of the 488 taxpayers receiving the tax credit in 2010, 213 were "small" businesses. Their total Pennsylvania research expenditures in taxable year 2009 were \$119.2 million, a 29.6 percent increase over their taxable year 2008 Pennsylvania research expenditures of \$92.0 million.

The 213 "small" businesses received the total \$3.6 million in credit set aside for them in 2010. This is only the fourth time in the history of the program that the "small" businesses have claimed the total amount of R&D tax credit set aside for them.

Of the 213 "small" businesses, 176 increased their Pennsylvania research expenditures in taxable year 2009 over taxable year 2008 by 49.2 percent in the aggregate. Their Pennsylvania research expenditures in taxable year 2009 rose to \$94.7 million from \$63.4 million in taxable year 2008. Only 37 "small" businesses reduced their Pennsylvania research expenditures over the same period. Their Pennsylvania research expenditures in taxable year 2009 declined by 14.1 percent to \$24.6 million from \$28.6 million in taxable year 2008.

#### **Impact on First Time Claimants and New Companies**

In 2010, 141 taxpayers were awarded the tax credit for the first time, claiming \$2.1 million in credit. Their Pennsylvania research expenditures totaled \$257.4 million for taxable year 2009. Conversely, 208 taxpayers that claimed the tax credit in 2009 did not receive any credit in 2010. These 208 taxpayers had Pennsylvania research expenditures in taxable year 2008 of about \$1,462.4 million and claimed about \$5.8 million in tax credit in 2009.

Of all the taxpayers claiming the R&D tax credit in 2010, 236 were companies incorporated in Pennsylvania after the passage of Act 7 of 1997. It is possible that not all of these newly incorporated companies are start-ups, but may be newly formed subsidiaries of a parent corporation. These companies claimed \$5.0 million in tax credit in 2010 and had total Pennsylvania research expenditures in taxable year 2009 of about \$554.4 million, a 13.1 percent increase from their Pennsylvania research expenditures in taxable year 2008 of about \$490.3 million.

The 236 recently incorporated companies had a total taxable year 2008 CSFT liability of \$2.3 million; 107 taxpayers had zero tax liability. The 236 new companies had a total taxable year 2008 CNIT liability of \$16.9 million; 190 taxpayers had zero tax liability.

#### **Impact on Established Companies**

In order to provide more insight into the companies that regularly claim the R&D tax credit, this report will examine 86 taxpayers for which the Department has tracked Pennsylvania research expenditures for the last ten taxable years, from 2000 through 2009. This group of credit recipients has received \$109.6 million in total tax credit from 1997 through 2010, or about 34 percent of the total \$323 million awarded over the fourteen years. These 86 companies represent 29.5 percent of the number of companies that received the R&D tax credit in its first year, 1997. As a group, these taxpayers are a representative cross-section of the type of companies that have come to consistently claim the R&D tax credit.

For these 86 taxpayers, their 2009 Pennsylvania R&D expenditures totaled just over \$2.1 billion. This is an aggregate growth rate of 103.4 percent over their 2000 Pennsylvania R&D expenditures of about \$1.0 billion; between 2000 and 2009, the Pennsylvania R&D expenditures for these 86 taxpayers grew at an compound annual growth rate of 8.2 percent

These 86 taxpayers were awarded about \$6.8 million in R&D tax credit in 2010. This credit amount was about 0.3 percent of their total amount of Pennsylvania research expenditures for the taxpayers in taxable year 2009. Overall, it is important to note that the R&D tax credit awarded was relatively small when compared to the amount of money spent by the taxpayers to conduct their research activities in the Commonwealth.

The 86 established taxpayers had a total CSFT liability for taxable year 2008 of \$14.0 million and a total CNIT liability for taxable year 2008 of \$96.3 million.

Chart 1 graphically shows the Pennsylvania R&D expenditures for the 86 established taxpayers for the last ten taxable years, 2000 through 2009.

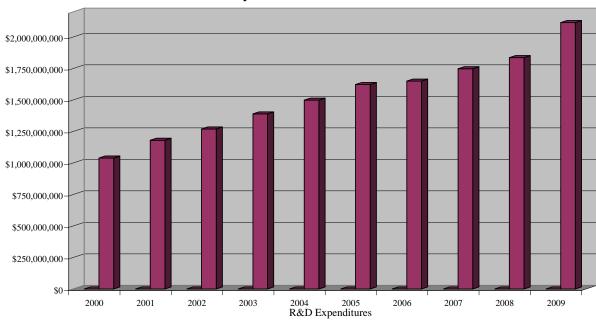


Chart 1. Pennsylvania R&D Expenditures by Year for 86 Established Companies
With PA Expenditure Data Between 2000 and 2009

#### Small versus Not "Small"

Of the 86 taxpayers, 60 did not qualify as "small" businesses. They received about \$104.1 million in tax credit over the fourteen years of the program. Their 2009 Pennsylvania R&D expenditures totaled about \$2.1 billion. This is an aggregate growth rate of 101.2 percent over their 2000 Pennsylvania R&D expenditures of about \$1.0 billion; between 2000 and 2009, the Pennsylvania R&D expenditures for these 60 taxpayers grew an compound annual growth rate of 8.1 percent.

Of the 86 taxpayers, there were 26 "small" businesses that received about \$5.5 million in tax credit over the fourteen years of the program. Their 2009 Pennsylvania R&D expenditures totaled about \$28.3 million. This is an aggregate growth rate of 955 percent over their 2000 Pennsylvania R&D expenditures of about \$2.7 million; between 2000 and 2009, the Pennsylvania R&D expenditures for these 26 taxpayers grew an compound annual growth rate of 29.9 percent.

#### By Industry Type

Of the 86 taxpayers, 40 were classified as manufacturers. They received about \$84.0 million in tax credit over the fourteen years of the program. Their 2009 Pennsylvania R&D expenditures totaled about \$1.6 billion. This is an aggregate growth rate of 74.8 percent over their 2000 Pennsylvania R&D expenditures of \$0.9 billion; between 2000 and 2009, the Pennsylvania R&D expenditures for these 40 taxpayers grew an compound annual growth rate of 6.4 percent.

Of the 86 taxpayers, there were 46 non-manufacturing businesses that received about \$25.6 million in tax credit over the fourteen years of the program. Their 2009 Pennsylvania R&D expenditures totaled about \$490 million. This is an aggregate growth rate of 344 percent over their 2000 Pennsylvania R&D expenditures of about \$110.3 million; between 2000 and 2009, the Pennsylvania R&D expenditures for these 46 taxpayers grew an compound annual growth rate of 18 percent.

#### Conclusions on the Impact of the R&D Tax Credit in Pennsylvania

When all 488 taxpayers receiving the R&D tax credit in 2010 were examined, "small" businesses increased their Pennsylvania research expenditures in taxable year 2009 more than "not small" businesses. However, the Pennsylvania research expenditures for "small" businesses were only 3.3 percent of the total Pennsylvania research expenditures in taxable year 2009. The overwhelming majority of Pennsylvania research expenditures continue to be made by taxpayers not classified as "small" businesses.

Of the 86 taxpayers examined for whom the Department has tracked Pennsylvania research expenditures for the last ten taxable years, for 2000 through 2009, manufacturers were the primary beneficiaries. Across all of the business types, the R&D tax credit remains a small percentage of Pennsylvania research expenditures. Hence, many other factors are likely to affect a company's R&D spending decisions. It remains to be seen what impact the most recent recession and the legislated reduction in available tax credits will have on future R&D expenditures by private industry.

#### **Conclusion**

The R&D tax credit has existed in Pennsylvania for fourteen years. Literature evaluating the effectiveness of the federal R&D tax credit and state R&D tax credits has shown mixed results regarding the effectiveness of the programs. Many factors other than the R&D tax credit influence a company's R&D investment decisions. This report's other observations can be summarized as:

- Due to the changes made by Act 48 of 2009, only \$18.0 million in R&D tax credit were awarded by the Department in December 2010. The "small" business set aside was similarly reduced to \$3.6 million for December 2010.
- In 2009, 488 companies were awarded credits, receiving the capped amount of \$18 million, or just over 19 percent of the amount requested.
- In the absence of a cap, \$94.4 million in tax credits would have been awarded. This was the second highest amount of tentative credit ever issued in one year.
- In tax year 2009, the 488 companies awarded the R&D tax credit in 2010 had total Pennsylvania research expenditures of \$3,573.6 million, a 24.2 percent increase over their tax year 2008 Pennsylvania research expenditures.
- Manufacturing firms, particularly pharmaceutical manufacturers, continue to be the primary beneficiaries of the R&D tax credit.
- "Small" businesses claimed all of the \$3.6 million in tax credit set aside for them in 2009. This only the fourth time that "small" businesses claimed all of the tax credit set aside for them.
- As of February 2010, a total of \$37.2 million in unused R&D tax credit have been sold from 2003 through 2009; approximately \$34.4 million was paid for the unused credit, or about 92.5 percent of their value.

### **APPENDIX A**

Table 1. Pennsylvania Research & Development Tax Credit Program
Taxpayers Receiving Credit in December 2008, 2009 and 2010 in Dollars
Sorted by 2010 Credit Awarded (Largest to Smallest)

<u></u>				2000 8 2000
		2040 Ora dit	2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized <sup>1</sup>
Pfizer, Inc.	\$4,091,278			\$849,231
Merck, Sharp & Dohme Corp.	\$1,321,420		+ ,- ,	\$1,677,793
Lockheed Martin Corporation	\$1,229,546		\$1,858,493	\$1,858,493
Eli Lilly And Company	\$1,128,200		\$0	\$0
LSI Corporation	\$634,631	\$0	\$0	\$0
SmithKline Beecham Corporation DBA				
GlaxoSmithKline	\$435,635		\$2,990,917	
General Electric Company	\$363,475			
Comcast Corporation	\$305,761			
Knopp Neurosciences, Inc.	\$255,460		\$490,878	
Teva Pharmaceuticals USA, Inc.	\$241,071	\$0		
Agentase	\$234,957	\$0		
Shire Pharmaceuticals, Inc.	\$228,422	\$0		\$648,963
Medrad, Inc.	\$210,774			
Lightwire, Inc.	\$185,983	\$0		\$500,203
Ception Therapeutics, Inc.	\$178,206		\$1,048,445	\$20,544
Lutron Electrics Co., Inc.	\$163,324	\$0		\$253,397
Edcomm, Inc.	\$134,214			\$259,452
Heinz Management LLC	\$125,057	\$0	\$593,155	\$0
Carpenter Technology Corporation	\$111,126	\$0	\$933,680	
Axion Power Battery Mfg., Inc.	\$109,748			\$0
Boehringer Ingleheim Pharmaceuticals, Inc.	\$99,643		\$138,096	
Globus Medical, Inc.	\$97,724	\$0		\$69,094
Mutual Pharmaceutical Company, Inc.	\$97,100		' '	\$570,051
Silverstorm Technologies, Inc.	\$95,081	\$0	\$176,980	\$0
Google, Inc.	\$93,602	\$0	\$0	\$0
Plextronics, Inc.	\$92,779	\$0	\$207,821	\$207,821
Eaton Corporation	\$88,692	\$0	\$0	\$0
Dragonfly Pictures, Inc.	\$83,759		\$0	\$0
Sanofi Pasteur, Inc.	\$78,092	\$0		\$518,353
Medecision, Inc.	\$76,473		\$0	\$0
Aprecia Pharmaceutical Company, Inc.	\$75,577	\$0	\$128,701	\$67,411
PH Glatfelter Company	\$72,557	\$0	\$102,697	\$102,697
II-VI Incorporated	\$69,647	\$0	\$181,988	\$118,139
Gemin X Pharmaceuticals US, Inc.	\$68,564	\$0 \$0	\$0	\$0
Bitarmor Systems, Inc.	\$67,246		\$125,631 \$100,476	\$125,631 \$100,476
Honeywell International, Inc.	\$66,282		\$100,476	
Bridge Semiconductor Corporation	\$65,238		\$96,647	\$49,527
Kennametal Inc.	\$65,095			
Nextgen Healthcare Information Systems, Inc.	\$60,821			\$173,501
Mars Incorporated CNH America, LLC	\$60,734 \$57,627	\$0 \$0		
Melior Discovery, Inc.	\$57,627 \$56,545			\$0 \$193,955
Alung Technologies, Inc.	\$56,545 \$54,719			\$193,955 \$0
Verizon Data Services, LLC				
Nupathe, Inc.	\$54,514 \$54,157			\$17,415 \$575,821
	\$54,157 \$53,200	\$0 \$0		\$575,821
Trevena, Inc.	\$53,200 \$51,624			
Compunetix, Inc.	\$51,624 \$51,599			\$34,893 \$747
N.A. Water Systems, LLC Bionanomatrix, Inc.	\$51,599 \$50,592	\$0 \$0		\$747 \$0
				•
Avid Radiopharmaceuticals, Inc.	\$48,077	\$0	\$225,088	\$225,088

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		0040 0 == = = = = = = = = = = = = = = =	2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized <sup>1</sup>	Awarded	Utilized <sup>1</sup>
McKesson Automation, Inc.	\$46,892	\$0	\$147,352	\$0
Cisco Systems, Inc.	\$46,638	\$0	\$61,615	\$0
Novo Nordisk, Inc.	\$46,571	\$0	\$48,215	\$48,215
Numoda Technologies, Inc.	\$46,350	\$0	\$0	\$0
Strategic Polymer Sciences, Inc.	\$45,009	\$0	\$43,123	\$31,255
Beyer Productions, LLC	\$44,532	\$0	\$0	\$0
Victaulic Company	\$44,261	\$0	\$0	\$0
Precision Therapeutics, Inc.	\$43,975	\$0	\$55,827	\$34,585
Global Seating Systems, LLC	\$43,945	\$0	\$32,645	\$32,645
Immunotope, Inc.	\$43,757	\$0	\$103,294	\$103,294
Fidelity Information Services, Inc.	\$42,613	\$0	\$44,620	\$44,620
Integrated Management Solutions, Inc.	\$41,397	\$0	\$0	\$0
Johnson Matthey, Inc.	\$40,834	\$0	\$0	\$0
Respironics, Inc.	\$38,898		\$330,527	\$115,159
The Hershey Company	\$38,891	\$0	\$119,218	\$119,218
Colorcon Inc. and Division	\$38,202	\$0	\$128,573	\$128,573
Classic Industries, Inc.	\$37,384		\$0	\$0
Converteam, Inc.	\$37,165		\$0	\$0
Industrial Scientific Corporation	\$36,637	\$0	\$15,541	\$15,541
Gemini Plastics, Inc.	\$35,726		\$62,200	\$62,200
Harley Davidson Motor Company Operations, Inc.	\$34,383		\$0	\$0
Infome, Inc.	\$34,345		\$15,004	\$0
Landslide Technologies, Inc.	\$34,271		\$79,223	\$46,778
Galleon Pharmaceuticals, Inc.	\$33,662	\$0	\$31,749	\$0
Etcetera Edutainment, Inc.	\$33,508		\$0 \$0	\$0
Chant Engineering Co., Inc.	\$33,081	\$0	\$83,757	\$83,757
Schott North America, Inc.	\$32,598		\$0 \$0	\$0 \$0
Corry Rubber Corporation	\$32,453		\$79,800	\$49,964
Equipois, Inc.	\$32,418		\$30,117	\$224
Cyoptics, Inc.	\$31,752			\$55,110
Gamry Instruments, Inc.	\$30,974		\$74,623	\$74,623
Process Combustion Corporation	\$30,705		\$74,623 \$79,197	\$74,623 \$71,238
Fidelity Flight Simulation				\$19,258
	\$30,610		\$19,258 \$0	
Latrobe Specialty Steel Company	\$30,386		\$10,600	\$0 \$0
Thermal Therapeutic Systems, Inc.	\$30,013	· ·		
Accipiter Systems, Inc.	\$29,913	\$0	\$56,082	\$44,827
Phoenix Contact Development	\$29,496			
Recro Pharma, Inc.	\$29,452		\$0 \$18.805	\$0 \$1,805
Cognition Therapeutics, Inc.	\$28,935			\$1,805
Maya Design, Inc.	\$28,849			\$21
JLG Industries, Inc.	\$28,658			\$55,000
Aquatech International Corporation	\$28,451			\$34,835
Mapquest PA, Inc.	\$27,939			\$0
Accu Measurement Testing, Inc.	\$27,371			\$35,302
Portico Systems of Delaware, Inc.	\$26,950			
Cordis Corporation	\$26,857	\$0		\$30,687
Isosciences, LLC	\$26,759	·		\$49,505
West Pharmaceutical Services, Inc.	\$26,663			
Remark Internet, Inc.	\$26,649			\$11,147
Net Health Systems, Inc.	\$25,872			\$19,823
Nielsen-Kellerman Co.	\$25,070			\$0
Qortek, Inc.	\$24,986			\$0
Pride Mobility Products Corporation	\$24,951			\$6,365
Eyenovate, Inc.	\$24,837			\$0
Blue Belt Technologies, Inc.	\$24,366			\$0
National Medical Services Biopharm, LLC	\$24,193	\$0	\$32,185	\$32,185
Garnet Biotherapeutics, Inc.	\$24,001	\$0		
			\$14,883	

			0000 0 0000	2008 & 2009
	0040 0 "	2010 Credit	2008 & 2009	2008 & 2009 Credit
<u>_</u>	2010 Credit		Credit	
Taxpayer Name	Awarded	Utilized <sup>1</sup>	Awarded	Utilized 1
Bentley Systems Incorporated	\$22,855		\$57,696	
Ismael J. Hidalgo	\$22,817	\$0	\$11,790	
Patrick M. Dentinger	\$22,817	\$0	\$11,788	
Gentex Corporation	\$22,628	\$0	\$56,876	
Verizon Corporate Resource Group, LLC	\$21,986	\$0	\$0	
Valtech Corporation	\$21,558	\$0	\$10,037	\$6,139
Crystalplex Corporation	\$21,333	\$0 \$0	\$18,464	\$18,464
Academyone, Inc. SS Processing, Inc.	\$21,035 \$20,866	\$0 \$0	\$0 \$7,965	
Omniwind Energy Systems, LLC	\$20,628	\$0 \$0	\$18,522	\$18,522
Homenet, Inc.	\$20,404	\$0 \$0	\$10,322	
Gelest, Inc.	\$20,166	\$0 \$0	\$35,574	
Caterpillar, Inc.	\$20,155	\$0	\$60,731	
ABB, Inc.	\$19,921	\$0 \$0	\$55,693	
Gentis, Inc.	\$19,524	\$0	\$103,999	
Document Solutions Group, Inc.	\$19,404	\$0	\$16,013	
Schell Games, LLC	\$18,669	\$0	\$23,711	
Sweet Street Desserts, Inc.	\$18,577	\$0	\$42,317	
New Pig Corporation	\$17,573	\$0	\$26,408	
Gateway Ticketing Systems, Inc.	\$17,467	\$0	\$82,448	
Ellwood Investment Corp.	\$17,397	\$0	\$0	\$0
Coldlight Solutions, LLC	\$17,049	\$0	\$22,967	\$0
Endo Pharmaceuticals, Inc.	\$16,834	\$0	\$0	\$0
Cook Myosite, Inc.	\$16,705	\$0	\$80,205	
Control Concepts Corporation	\$16,679	\$0	\$49,423	
Yaupon Therapeutics, Inc.	\$16,675	\$0	\$7,550	
Fairchild Semiconductor Corporation	\$16,659	\$0	\$0	
Towercare Technologies, Inc.	\$16,583	\$0	\$18,937	
Keystone Nano, Inc.	\$16,459	\$0 \$0	\$14,702	
Power & Industrial Srv Corp. First Insight, Inc.	\$16,389 \$16,349	\$0 \$0	\$6,017 \$1,372	
Can Corporation of America, Inc.	\$16,349	\$0 \$0	\$930	
Videon Central, Inc.	\$16,172	\$0 \$0	\$58,149	
Ventana USA, LLP	\$16,124	\$0	\$0	\$0
Avere Systems, Inc.	\$15,946	\$0	\$0	\$0
Teletracking Technologies Inc.	\$15,770	\$0	\$106,402	\$106,402
Flexuspine, Inc.	\$15,245	\$0	\$173,105	
Psychology Software Tools, Inc.	\$15,038		\$15,485	
Clearcount Medical Solutions, Inc.	\$14,844	\$0	\$56,606	\$53,916
Avery Dennison Corporation	\$14,822	\$0	\$101,539	
Fedex Ground Package System, Inc.	\$14,774	\$0	\$163,127	
Bioconnect Systems, Inc.	\$14,660	\$0	\$50,752	\$50,752
FHM Holding Company, Inc.	\$14,643	\$0	\$0	\$0
Azur Pharma, Inc.	\$14,639	\$0	\$0	\$0
Supelco, Inc.	\$14,421	\$0	\$6,462	\$6,462
Emerson Process Management Power & Water Solutions, Inc.	Ф4.4.070	¢o.	<b>Ф</b> 774	Ф.С
EA Fischione Instruments, Inc.	\$14,273 \$14,272	\$0 \$0	\$771 \$22,706	
QR Pharma, Inc.	\$13,887	\$0 \$0	\$0	
Neuro Kinetics, Inc.	\$13,778		\$52,566	
Kenexa Corporation	\$13,581	\$0 \$0	\$0	
Greene, Tweed & Co, Inc.	\$13,413		\$28,588	
Blade Diagnostics Corporation	\$13,402	\$0	\$38,719	
Soft Genetics, LLC	\$13,223	\$0	\$22,136	
Nitric Biotherapeutics, Inc.	\$13,101	\$0	\$104,953	
Metronome Labs, LLC	\$13,058	\$0	\$0	\$0
Ametek, Inc.	\$12,794	\$0	\$0	\$0
Analytical Graphics, Inc.	\$12,628	\$0	\$0	

			2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized 1
Autodesk, Inc.	\$12,325	\$0	\$0	\$0
Samtec, Inc.	\$12,224	\$0	\$0	\$0
Sungard Higher Education, Inc.	\$11,964	\$0	\$52,489	\$52,489
Herbert Rowland & Grubic, Inc.	\$11,885	\$0	\$0	\$0
Keystone Foods, LLC	\$11,743	\$0	\$0	\$0
Industrial Learning Systems	\$11,554	\$0	\$10,789	\$10,789
Ecotech Marine, LLC	\$11,390	\$0	\$18,660	
Cutting Edge Solutions, Inc.	\$11,332	\$0	\$42,265	
Multimodal Technologies, Inc.	\$11,305	\$0	\$18,480	
Express Dynamics, LLC	\$11,238	\$0	\$23,778	
Micromechatronics, Inc.	\$10,928	\$0	\$38,480	
C&T Machining, Inc.	\$10,919	\$0	\$0	\$0
Advanced Carbon Technologies, Inc.	\$10,493	\$0	\$7,635	\$7,635
Kuhn Tool & Die Co.	\$10,492	\$0	\$10,637	\$6,476
Electroscience Laboratories, Inc.	\$10,491	\$0 \$0	\$3,166	\$829
Orthovita, Inc.	\$10,475	\$0 \$0	\$47,430	\$27,147
Regeneron Pharmaceuticals, Inc.	\$10,473	\$0 \$0	\$0	\$27,147
Pelletron Corporation	\$10,325	\$0 \$0	\$22,228	
Flexible Compensators, Inc.	\$10,208	\$0 \$0	\$1,238	
Oven Industries, Inc.	\$10,205	\$0 \$0	\$21,116	\$4,611
Entech Engineering, Inc.	\$10,179	\$0 \$0	\$0	\$4,011
RD Coatings, Inc.	\$10,081	\$0 \$0	\$0	\$0
Washington Penn Plastic Co., Inc.	\$10,067	\$0 \$0	\$14,106	\$14,106
Ycarbon, Inc.	\$10,007	\$0 \$0	\$14,100	\$14,100
Flsmidth, Inc.	\$9,868	\$0 \$0	\$27,100	
Team Ten, LLC	\$9,853	\$0 \$0	\$1,215	
Pharmaceutical Manufacturing Research	\$9,833	\$0 \$0	\$9,610	\$5,659
Lone Oak Medical Technologies, LLC	\$9,642	\$0 \$0	\$9,610	\$0,659 \$0
Communication Automation Corporation	\$9,618	\$0 \$0	\$0 \$0	\$0
Kroff Chemical Company	\$9,462	\$0 \$0	\$19,279	
		\$0 \$0	\$19,279	\$10,994
Bodymedia, Inc. LL Kurtz Manufacturing, Inc.	\$9,409 \$9,351	\$0 \$0	\$0 \$0	\$0
Sim Ops Studios, Inc.	\$9,338	\$0 \$0	\$26,981	\$21,890
Red Valve Company, Inc.	\$9,330	\$0 \$0	\$34,016	\$21,690
Silberline Manufacturing Co., Inc.	\$9,230	\$0 \$0	\$34,016 \$0	\$0
Vertex, Inc.	\$9,143	\$0 \$0	\$0	\$0
	\$9,143	\$0 \$0	\$14,402	\$14,402
Milnes Engineering, Inc.  Quintech Electronics & Communications, Inc.	\$8,837	\$0 \$0	\$9,984	
Cohera Medical, Inc.	\$8,836	\$0 \$0	\$150,176	
Ashland, Inc.	\$8,821	\$0 \$0	\$3,336	
International Business Machines Corporation			\$140,411	
	\$8,778	\$0 \$0		
Synopsys, Inc. Innovative Pressure Technologies, LLC	\$8,702	\$0 \$0	\$4,663 \$17,444	
	\$8,622 \$8,556	\$0 \$0		
Lucas Systems, Inc.	\$8,556		\$39,029	
ExecutivePulse, Inc.	\$8,534	\$0 \$0	\$0 \$2.057	\$0
Enantigen Therapeutics, Inc.	\$8,475	\$0 \$0	\$2,057	\$0
Puricore, Inc.	\$8,453	\$0 \$0	\$17,272	\$0
TCI Ceramics, Inc.	\$8,419	\$0	\$5,361	\$0
Betts Industries, Inc.	\$8,406	\$0	\$13,758	
Zband, Inc.	\$8,205	\$0	\$24,208	
Qadalyst, LLC	\$8,135	\$0	\$2,163	
Eriez Manufacturing	\$7,937	\$0	\$22,278	
Reading Alloys, Inc	\$7,893	\$0	\$6,095	
Nutec Tooling Systems, Inc.	\$7,885	\$0	\$98,522	\$98,522
Naval Systems, Inc.	\$7,819	\$0	\$0	\$0
Pittsburgh African Venture Partners, LLC	\$7,686		\$0	\$0
Ratex Business Solutions, Inc.	\$7,670	\$0	\$3,105	
York Container Company	\$7,651	\$0	\$40,040	\$27,929

Taxpayer Name         2010 Credit Awarded         2010 Credit Utilized¹         2010 Credit Awarded           Emotion Kayaks, Inc.         \$7,525         \$0         \$5,209           The Magnus Group, Inc.         \$7,463         \$0         \$3,677           GES Automation Technology, Inc.         \$7,290         \$0         \$0           Mesh, Inc.         \$7,235         \$0         \$7,335           Mdot Incorporated         \$7,140         \$0         \$0	2008 & 2009 Credit Utilized <sup>1</sup> \$5,209 \$37 \$0 \$1,548
Taxpayer Name         Awarded         Utilized 1         Awarded           Emotion Kayaks, Inc.         \$7,525         \$0         \$5,209           The Magnus Group, Inc.         \$7,463         \$0         \$3,677           GES Automation Technology, Inc.         \$7,290         \$0         \$0           Mesh, Inc.         \$7,235         \$0         \$7,335	Utilized <sup>1</sup> \$5,209 \$37 \$0
Emotion Kayaks, Inc.         \$7,525         \$0         \$5,209           The Magnus Group, Inc.         \$7,463         \$0         \$3,677           GES Automation Technology, Inc.         \$7,290         \$0         \$0           Mesh, Inc.         \$7,235         \$0         \$7,335	\$5,209 \$37 \$0
Emotion Kayaks, Inc.         \$7,525         \$0         \$5,209           The Magnus Group, Inc.         \$7,463         \$0         \$3,677           GES Automation Technology, Inc.         \$7,290         \$0         \$0           Mesh, Inc.         \$7,235         \$0         \$7,335	\$37 \$0
The Magnus Group, Inc.       \$7,463       \$0       \$3,677         GES Automation Technology, Inc.       \$7,290       \$0       \$0         Mesh, Inc.       \$7,235       \$0       \$7,335	\$37 \$0
GES Automation Technology, Inc.       \$7,290       \$0       \$0         Mesh, Inc.       \$7,235       \$0       \$7,335	\$0
<b>Mesh, Inc.</b> \$7,235 \$0 \$7,335	
	Ψ1,010
	\$0
Stein Seal Company         \$7,715         \$0         \$5,795	\$5,795
EDigitalDataCenter, Inc. \$7,075 \$0 \$0	\$0
Oxford Bio-Imaging Research, Inc. \$6,958 \$0 \$0	\$0
Fairmount Foundry, Inc. \$6,824 \$0 \$14,333	\$14,333
<b>C&amp;J Industries, Inc.</b> \$6,779 \$0 \$7,364	\$7,364
Instrumentation Industries, Inc. \$6,595 \$0 \$0	\$0
Advanced Cooling Technologies, Inc. \$6,447 \$0 \$2,703	\$2,703
Boehringer Laboratories, Inc. \$6,436 \$0 \$32,435	\$32,435
NCA Technologies, Inc. \$6,346 \$0 \$5,065	\$2
Genco I, Inc. \$6,321 \$0 \$0	\$0
Gai-Tronics Corporation \$6,311 \$0 \$22,454	\$22,454
Aerotech Inc. \$6,206 \$0 \$55,183	\$37,977
<b>Extol International, Inc.</b> \$6,091 \$0 \$134,386	\$0
Graybill Machines, Inc. \$6,043 \$0 \$12,813	\$12,813
Jordan Acquisition Group, LLC \$6,010 \$0 \$16,622	\$16,622
<b>CP Converters, Inc.</b> \$5,974 \$0 \$17,129	\$17,129
<b>Appcove, Inc.</b> \$5,887 \$0 \$21,878	\$21,878
Prosoft Technologies, Inc. \$5,874 \$0 \$32,660	\$30,609
Diasome Pharmaceuticals, Inc. \$5,777 \$0 \$0	\$0
Tetralogic Pharmaceuticals Corporation \$5,764 \$0 \$85,497	\$0
<b>Touchtown, Inc.</b> \$5,697 \$0 \$20,894	\$20,894
Reading Pretzel Machinery Corp. \$5,667 \$0 \$15,908	\$5,914
Pioneer Hi Bred International, Inc. \$5,664 \$0 \$8,156	\$8,156
<b>Ingmar Medical, Ltd.</b> \$5,559 \$0 \$10,648	\$10,648
Golden Brothers, Inc. \$5,513 \$0 \$0	\$0
<b>Urban Engineers, Inc.</b> \$5,487 \$0 \$6,971	\$6,971
<b>Acutronic USA, Inc.</b> \$5,469 \$0 \$0	\$0
<b>RE 2, Inc.</b> \$5,416 \$0 \$2,781	\$2,781
Orasure Technologies, Inc.         \$5,372         \$0         \$109,690	\$8,815
Lasko Products, Inc. \$5,358 \$0 \$0	\$0
JR Peters, Inc. \$5,345 \$0 \$0	\$0
Eastern Manufacturing, Inc. \$5,331 \$0 \$0	\$0
Just Between Friends, Inc.         \$5,310         \$0         \$3,847	\$3,847
<b>Gyroton Technology, Inc.</b> \$5,293 \$0 \$29,462	\$16,577
Chemcut Holdings LLC         \$5,260         \$0         \$4,973	\$4,766
Reinsel Kuntz Lesher, LLP \$5,238 \$0 \$0	\$C
Elsner Engineering Works, Inc. \$5,184 \$0 \$2,149	\$0
KCF Technologies \$5,115 \$0 \$2,850	\$2,850
Advanced Mobile Solutions Worldwide, Inc. \$5,085 \$0 \$0	\$0
Interbots, LLC \$5,069 \$0 \$0	\$0
EthosGen, LLC \$5,029 \$0 \$0	\$0
Chariot Solutions, LLC \$4,984 \$0 \$0	\$0
Reynolds Reynolds Electronics, Inc. \$4,973 \$0 \$27,554	\$21,875
Minnotte Manufacturing Corporation \$4,906 \$0 \$0	\$0
Innovative Control Systems, Inc. \$4,870 \$0 \$364	\$364
Local Focal, Inc.       \$4,779       \$0       \$0         Synerge, LLC       \$4,769       \$0       \$0	\$0 \$0
Synerge, LLC         \$4,769         \$0         \$0           Huston, Inc.         \$4,753         \$0         \$4,568	\$0 \$3,669
KDIndustires, Inc.         \$4,747         \$0         \$33,806           Resis Carbide Corporation         \$4,720         \$0         \$6,344	\$0 \$701
Basic Carbide Corporation         \$4,739         \$0         \$6,314           Creat Street Cream Inc.         \$4,685         \$0         \$70,632	\$701
Grant Street Group, Inc.         \$4,685         \$0         \$79,623           Boolemare, Inc.         \$4,512         \$0         \$0	\$79,623
Reclamere, Inc.         \$4,512         \$0         \$0           Four Pivers Conference         \$0         \$0         \$0	\$0
Four Rivers Software Systems, Inc. \$4,457 \$0 \$0	\$0

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			2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized 1
Datagrove, Inc.	\$4,453	\$0	\$28,906	\$12,823
Richter Precision, Inc.	\$4,390	\$0	\$12,813	
York Laboratories, LLC	\$4,369	\$0	\$2,474	
Enzo Life Sciences International, Inc.	\$4,340	\$0	\$0	\$0
Tengion, Inc.	\$4,251	\$0	\$187,040	\$48,815
Nanohorizons, Inc.	\$4,243	\$0	\$10,518	
QMAC Quality Machining, Inc.	\$4,207	\$0 \$0		\$20,773
CTR Holdings, Inc.		\$0 \$0		\$5,153
Melior Pharmaceuticals I, Inc.	\$4,189	\$0 \$0	\$5,153 \$0	
,	\$4,135			\$0
C W E, Inc.	\$4,070	\$0	\$8,995	\$3,547
Thermal Transfer Corporation	\$4,051	\$0	\$0	\$0
Softerware, Inc.	\$4,040	\$0	\$11,162	\$8,197
Computer Consulting Team, LLC	\$4,028	\$0		\$5,809
John Paul Mitchell Systems	\$3,920	\$0	\$0	\$0
Mainstream Swimsuits, Inc.	\$3,919	\$0	\$4,212	\$0
Erdman Anthony Associates, Inc.	\$3,899	\$0	\$0	\$0
Pittsburgh Plastics Mfg, Inc.	\$3,870	\$0	\$0	\$0
Henson Company, Inc.	\$3,822	\$0	\$16,265	\$2,661
Interstate Building Materials, Inc.	\$3,820	\$0	\$0	\$0
Tactical Technologies, Inc.	\$3,802	\$0	\$17,849	\$0
West Penn Oil Company, Inc.	\$3,728	\$0	\$0	\$0
Penn Manufacturing Industries, Inc.	\$3,710	\$0	\$0	\$0
WER Corporation	\$3,700	\$0	\$23,739	\$15,317
Precision Ctg Tech Mnfg, Inc.	\$3,671	\$0	\$0	\$0
Griffith Brothers Whitetail Ridge, Inc.	\$3,667	\$0	\$6,432	\$6,432
Snaptite, Inc.	\$3,638	\$0		
VT Graphics, Inc.	\$3,545	\$0	\$15,664	\$7,695
Edgemate, Inc.	\$3,539	\$0	\$0	\$0
Lunchtime Software, LLC	\$3,525	\$0 \$0	\$2,424	\$2,424
Cardinal Systems, Inc.	\$3,477	\$0 \$0	\$0	\$0
ITT Corporation	\$3,444	\$0 \$0	\$0 \$0	\$0
Juniata Fabrics, Inc.	\$3,394	\$0 \$0		\$13,859
Tipton Medical & Diagnostic Center	\$3,359	\$0 \$0	\$13,639	\$13,639
Artsana USA, Inc.	\$3,351	\$0	\$3,088	\$3,088
Pennoni Associates, Inc.	\$3,338	\$0	\$24,147	\$24,147
Knoll, Inc.	\$3,288	\$0	\$0	\$0
Combined Systems, Inc.	\$3,238			
Philadelphia Tramail Enterprises, Inc.	\$3,179			
Third Eye Diagnostics, Inc.	\$3,178	\$0		\$2,707
Sun Star, Inc.	\$3,171	\$0	\$0	
Lincoln Contracting Equipment Co., Inc.	\$3,163	\$0		\$0
Pitney Bowes Software, Inc.	\$3,152	\$0	·	\$0
Diversified Machine, Inc.	\$3,105	\$0		
Russell Biotech, Inc.	\$3,104	\$0		
Michael & Associates, Inc.	\$3,072	\$0		\$1,954
Johnstown Machining and Fabrication, Inc.	\$3,016	\$0		
R M Palmer Company	\$3,000	\$0		
Science Applications International Corporation	\$2,981	\$0		
Drug Plastics & Glass Co. Inc.	\$2,939	\$0		
American Enterprises Mpt Corp.	\$2,924	\$0		
Hamilton Precision Metals, Inc.	\$2,875	\$0		
General Dynamics Satcom Technologies, Inc.	\$2,869	\$0 \$0		
Robert Bosch Tool Corporation	\$2,845	\$0		
		\$0 \$0		
Carnegie Learning, Inc.	\$2,821			
Assistive Technology Products, Inc.	\$2,795	\$0 \$0		
Angstrom Sciences, Inc.	\$2,780	\$0		
Keymatrix, Inc.	\$2,771	\$0		
American Reading Company, Inc.	\$2,770	\$0	\$0	\$0

Taxpayer Name					
Awarded				2008 & 2009	2008 & 2009
Amili Manufacturing Company   \$2,754   \$0   \$4,982   \$4,98		2010 Credit	2010 Credit		Credit
Amili Manufacturing Company   \$2,754   \$0   \$4,982   \$4,98	Taxpaver Name		Utilized 1		Utilized 1
Ametek Pittman, Inc.  \$2,728 \$0 \$0 \$0  Deron, Inc.  \$2,698 \$0 \$1,827 \$1,82  Healthcare Lighting, Inc.  \$2,694 \$0 \$0 \$0 \$0  \$3,00 \$3  Quantum Software Solution, Inc.  \$2,694 \$0 \$0 \$0 \$0  \$3,4414 \$4,41  Wampum Hardware Co.  \$2,686 \$0 \$0 \$0 \$0  \$3,4414 \$4,41  Wampum Hardware Co.  \$2,686 \$0 \$0 \$0 \$0  \$3,00 \$3  \$4,444 \$4,41  Wampum Hardware Co.  \$2,686 \$0 \$0 \$0 \$0  \$3,00 \$3  \$4,00 \$0  \$4,					
Oberon, Inc.					\$0
Healthcare Lighting, Inc.	·				T -
Quantum Software Solution, Inc.   \$2,867   \$0   \$4,414   \$4,41					
Wampurn Hardware Co.   \$2,866   \$0   \$0   \$0   \$0   \$0   \$0   \$0					T -
PHW, Inc.   \$2,646   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$					
Deasey Machine Tool & Die Works, Inc.   \$2,643   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$					
Packaging Specialists, LLC					
Prosanos Corporation					\$0
McCormick Taylor Inc.   \$2,610   \$0   \$1,719   \$1,719					\$0
Onconva Therapeutics, Inc.   \$2,564   \$0   \$97,055   \$11,52					
Nazareth Industrial Corporation   \$2,536   \$0   \$0   \$0   \$   \$   \$   \$   \$   \$					
Elan Drug Delivery, Inc.   \$2,533   \$0   \$37,382   \$37,382   \$37,382   \$37,382   \$37,382   \$37,382   \$37,382   \$37,382   \$38,383   \$3,583   \$3,584   \$30   \$3.683   \$3,733   \$3,7382   \$30   \$30   \$3,3893   \$3,733   \$3,7382   \$30   \$30   \$3,393   \$3,7382   \$3,7382   \$30   \$30   \$3,393   \$3,7382   \$3,7382   \$3,93   \$3,7382   \$3,9383   \$3,7382   \$3,9383   \$3,7382   \$3,9383   \$3,7382   \$3,9383   \$3,9383   \$3,7382   \$3,9383   \$3,9383   \$3,7382   \$3,9383   \$3,9383   \$3,7382   \$3,9383   \$3,9383   \$3,7382   \$3,9383   \$3,938					
Conagra Foods Enterprise Services, Inc.   \$2,516   \$0   \$0   \$1					\$0
Computer Sciences Corporation				\$37,382	\$37,382
Hydac Technology Corp.   \$2,353   \$0   \$3,883   \$3,883   \$3,883   \$3,883   \$3,893   \$3,73   \$3,73   \$3,893   \$3,73   \$3,73   \$3,893   \$3,73	Conagra Foods Enterprise Services, Inc.	\$2,516	\$0	\$0	\$0
Hydac Technology Corp.   \$2,353   \$0   \$3,883   \$3,88   \$3,88   \$3,89   \$3,73   \$3   \$3,893   \$3,73   \$3,73   \$3,893   \$3,73   \$3,73   \$3,893   \$3,73   \$3,73   \$3,893   \$3,73   \$3,73   \$3,73   \$3,893   \$3,73   \$3	Computer Sciences Corporation	\$2,364	\$0	\$0	\$0
ETA Industries, Inc. \$2,353 \$0 \$3,893 \$3,73 \$20,567 \$20,566 Georgeko Industries, Inc. \$2,212 \$0 \$0 \$0 \$0 \$\$ Zband Video, Inc. \$2,245 \$0 \$0 \$0 \$\$ Zoxo, Inc. \$2,245 \$0 \$0 \$0 \$\$ SWorld Electronics Sales and Service, Inc. \$2,193 \$0 \$1,316		\$2,353	\$0	\$3,683	\$3,683
Streamlight, Inc.					
Seorgeko Industries, Inc.	,				\$20,567
ZDand Video, Inc.   \$2,245   \$0   \$0   \$0   \$1					\$C
Toxco, Inc.   \$2,235   \$0   \$0   \$0   \$1					\$C
World Electronics Sales and Service, Inc.         \$2,193         \$0         \$1,316         \$1,316           Rockland Immunochemicals, Inc.         \$2,180         \$0         \$1,050         \$1,050           Thomas Erie, Inc.         \$2,162         \$0         \$2,839         \$2,839           Patriot Sensors and Controls Corporation         \$2,155         \$0         \$0         \$0           Hydro-Pac, Inc.         \$2,155         \$0         \$26,579         \$20,50           Bel Connector, Inc. (ta Stewart Connector)         \$2,137         \$0         \$6,892         \$6,62           Mallet and Company, Inc.         \$2,137         \$0         \$6,892         \$6,62           R-V Industries, Inc.         \$2,054         \$0         \$3,471         \$3,471           SAS Institute, Inc.         \$2,054         \$0         \$3,471         \$3,471           SAS Institute, Inc.         \$2,047         \$0         \$0         \$3,4212           SAS Institute, Inc.         \$2,047         \$0         \$0         \$3,4212           SAS Institute, Inc.         \$2,047         \$0         \$0         \$3,431           Bibocoat, Inc.         \$1,990         \$0         \$5,054         \$4,431           Biboration, Inc.         \$1,996	•				\$0
Rockland Immunochemicals, Inc.   \$2,180   \$0   \$1,050   \$1,050   \$1,050   \$1,050   \$1,050   \$2,839					
Thomas Erie, Inc.					
Patriot Sensors and Controls Corporation   \$2,159   \$0   \$0   \$0   \$0   \$1					
Hydro-Pac, Inc.   \$2,156   \$0 \$40,539 \$40,53   \$40,53					\$0
Sel Connector, Inc. (ta Stewart Connector)   \$2,155   \$0   \$26,579   \$20,50					
Mallet and Company, Inc.         \$2,137         \$0         \$6,982         \$6,62           R-V Industries, Inc.         \$2,127         \$0         \$4,212         \$4,21           SAS Institute, Inc.         \$2,054         \$0         \$3,471         \$3,47           Thompsons Candle, Co.         \$2,047         \$0         \$9         \$8           Manley Holdings, Inc.         \$2,034         \$0         \$89,484         \$89,48           Fiberline, Inc.         \$1,990         \$0         \$5,504         \$4,31           Biocoat, Inc.         \$1,990         \$0         \$25,054         \$4,31           Biocoat, Inc.         \$1,990         \$0         \$32,622 <t< td=""><th></th><td></td><td></td><td></td><td></td></t<>					
R-V Industries, Inc.  SAS Institute, Inc.  SAS Institute, Inc.  S2,054  S0 \$3,471  S3,471  S3,477  S0 \$0 \$0  S0 \$3  Manley Holdings, Inc.  \$2,034  S0 \$89,484  \$89,48  Fiberline, Inc.  \$1,990  \$0 \$5,054  \$4,31  Biocoat, Inc.  \$1,996  S0 \$32,622  \$32,622  Amuneal Manufacturing Corp.  \$1,955  S0 \$71,985  \$71,985  TDY Industries, Inc.  \$1,952  \$0 \$0  \$0 \$5,054  \$4,31  \$3,22  Amuneal Manufacturing Corp.  \$1,955  \$0 \$71,985  \$71,985  \$71,985  \$71,985  TDY Industries, Inc.  \$1,952  \$0 \$2,037  \$2,037  \$2,037  \$2,037  \$2,030  JMF Defense Systems, LLC  \$1,944  \$0 \$0 \$0  \$\$  Ernst Conservation Seeds, Inc.  \$1,930  \$0 \$0 \$3,688  \$2,32  Schneider, Inc.  \$1,886  \$0 \$3,688  \$2					
SAS Institute, Inc.         \$2,054         \$0         \$3,471         \$3,471           Thompsons Candle, Co.         \$2,047         \$0         \$0         \$           Manley Holdings, Inc.         \$2,034         \$0         \$89,484         \$89,48           Fiberline, Inc.         \$1,999         \$0         \$5,054         \$4,31           Biocoat, Inc.         \$1,996         \$0         \$32,622         \$32,62           Neutronics, Inc.         \$1,979         \$0         \$4,332         \$3,22           Amuneal Manufacturing Corp.         \$1,955         \$0         \$71,985         \$71,985           TDY Industries, Inc.         \$1,955         \$0         \$2,037         \$2,03           JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$0           Newage Testing Instruments, Inc.         \$1,944         \$0         \$0         \$0           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,89           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$1,535					
Thompsons Candle, Co.         \$2,047         \$0         \$0         \$           Manley Holdings, Inc.         \$2,034         \$0         \$89,484         \$89,48         \$89,48           Fiberline, Inc.         \$1,990         \$0         \$5,054         \$4,31           Biocoat, Inc.         \$1,996         \$0         \$32,622         \$32,62           Neutronics, Inc.         \$1,979         \$0         \$4,332         \$3,22           Amuneal Manufacturing Corp.         \$1,955         \$0         \$71,985         \$71,985           TDY Industries, Inc.         \$1,952         \$0         \$2,037         \$2,03           JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$           Newage Testing Instruments, Inc.         \$1,930         \$0         \$0         \$           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,89           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,881         \$0         \$2,677         \$2,867           Neville Chemical Company         \$1,881         \$0         \$1					
Manley Holdings, Inc.         \$2,034         \$0         \$89,484         \$89,48           Fiberline, Inc.         \$1,990         \$0         \$5,054         \$4,31           Biocoat, Inc.         \$1,986         \$0         \$32,622         \$32,622           Neutronics, Inc.         \$1,979         \$0         \$4,332         \$3,22           Amuneal Manufacturing Corp.         \$1,955         \$0         \$71,985         \$17,985         \$17,985           TDY Industries, Inc.         \$1,952         \$0         \$2,037         \$2,03           JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$           Newage Testing Instruments, Inc.         \$1,930         \$0         \$0         \$           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,891           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0	•				
Fiberline, Inc.         \$1,990         \$0         \$5,054         \$4,31           Biocoat, Inc.         \$1,986         \$0         \$32,622         \$32,222         \$32,222         \$32,222         \$32,222         \$32,223         \$32,203         \$32,037         \$2,232         \$2,677         \$2,867         \$2,867         \$2,867         \$2,867         \$2,867         \$2,867         \$2,867         \$2,867 <th></th> <td></td> <td></td> <td></td> <td></td>					
Biocoat, Inc.   \$1,986   \$0   \$32,622   \$32,622   \$32,622   Neutronics, Inc.   \$1,979   \$0   \$4,332   \$3,222   \$32,622   \$32,622   \$32,622   \$32,622   \$32,622   \$32,622   \$32,622   \$32,623   \$32,223   \$32,223   \$32,223   \$32,223   \$32,223   \$32,223   \$32,233   \$32,223   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,233   \$32,333   \$32,234   \$32,323   \$32					
Neutronics, Inc.					
Amuneal Manufacturing Corp.         \$1,955         \$0         \$71,985         \$71,985           TDY Industries, Inc.         \$1,952         \$0         \$2,037         \$2,03           JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$           Newage Testing Instruments, Inc.         \$1,930         \$0         \$0         \$           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,891           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0         \$1,920         \$           General Dynamics C4 Systems, Inc.         \$1,848         \$0         \$1,920         \$           Brainbond, LLC         \$1,744         \$0         \$0         \$           Adhesives Research, Inc.         \$1,741         \$0         \$32,284         \$2,20           NE Foods, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,699         \$0         \$4,270	,				
TDY Industries, Inc.         \$1,952         \$0         \$2,037         \$2,03           JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$           Newage Testing Instruments, Inc.         \$1,930         \$0         \$0         \$           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,891           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0         \$1,920         \$           General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,35           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,696         \$0         \$4,270         \$4,27           KE Foods, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,693         \$0         \$7,976         \$7,97           Amer Precision Powder Coating, LLC         \$1,659         \$0         \$4,780	Neutronics, Inc.	\$1,979			
JMF Defense Systems, LLC         \$1,944         \$0         \$0         \$           Newage Testing Instruments, Inc.         \$1,930         \$0         \$0         \$           Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,89           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0         \$1,920         \$           General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,357           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,696         \$0         \$4,270         \$4,270           CF Martin Co., Inc.         \$1,696         \$0         \$7,976         \$7,976           Amer Precision Powder Coating, LLC         \$1,692         \$0         \$4,780         \$4,780           SFS Intec Incorporated         \$1,652         \$0 <td< td=""><th></th><td></td><td></td><td></td><td></td></td<>					
Newage Testing Instruments, Inc.       \$1,930       \$0       \$0         Ernst Conservation Seeds, Inc.       \$1,894       \$0       \$7,891       \$7,89         Tyrone Milling       \$1,886       \$0       \$3,688       \$2,32         Schneider, Inc.       \$1,882       \$0       \$28,677       \$28,67         Neville Chemical Company       \$1,881       \$0       \$0       \$0         Big B Manufacturing, Inc.       \$1,848       \$0       \$1,920       \$         General Dynamics C4 Systems, Inc.       \$1,806       \$0       \$15,357       \$15,357         Brainbond, LLC       \$1,794       \$0       \$0       \$         Adhesives Research, Inc.       \$1,741       \$0       \$32,284       \$2,20         Adhesives Research, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,696       \$0       \$7,976       \$7,976         Amer Precision Powder Coating, LLC       \$1,693       \$0       \$7,976       \$7,97         Arrow Precision Powder Coating, LLC       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0					
Ernst Conservation Seeds, Inc.         \$1,894         \$0         \$7,891         \$7,89           Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,67           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0         \$1,920         \$           General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,357           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,696         \$0         \$7,976         \$7,97           Amer Precision Powder Coating, LLC         \$1,682         \$0         \$0         \$4,780         \$4,78           Traypak Corporation         \$1,659         \$0         \$4,780         \$4,78         \$4,78           SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,628					
Tyrone Milling         \$1,886         \$0         \$3,688         \$2,32           Schneider, Inc.         \$1,882         \$0         \$28,677         \$28,677           Neville Chemical Company         \$1,881         \$0         \$0         \$           Big B Manufacturing, Inc.         \$1,848         \$0         \$1,920         \$           General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,357           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,741         \$0         \$32,284         \$2,20           NE Foods, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,693         \$0         \$7,976         \$7,97           Amer Precision Powder Coating, LLC         \$1,682         \$0         \$0         \$4,780         \$4,78           Traypak Corporation         \$1,659         \$0         \$4,780         \$4,78         \$4,78           SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,633         \$0         \$2,679         \$2,67           S Vitale Pyrotechnic Industries, Inc.         \$1,622 </td <th></th> <td></td> <td></td> <td></td> <td>\$0</td>					\$0
Schneider, Inc.       \$1,882       \$0       \$28,677       \$28,67         Neville Chemical Company       \$1,881       \$0       \$0       \$         Big B Manufacturing, Inc.       \$1,848       \$0       \$1,920       \$         General Dynamics C4 Systems, Inc.       \$1,806       \$0       \$15,357       \$15,357         Brainbond, LLC       \$1,806       \$0       \$15,357       \$15,355         Brainbond, LLC       \$1,794       \$0       \$0       \$         Adhesives Research, Inc.       \$1,741       \$0       \$32,284       \$2,20         NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,976         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$4,780       \$4,78         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78       \$7,88       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$25,087       \$14,58         Inme	·				
Neville Chemical Company       \$1,881       \$0       \$0       \$         Big B Manufacturing, Inc.       \$1,848       \$0       \$1,920       \$         General Dynamics C4 Systems, Inc.       \$1,806       \$0       \$15,357       \$15,355         Brainbond, LLC       \$1,794       \$0       \$0       \$         Adhesives Research, Inc.       \$1,794       \$0       \$32,284       \$2,20         NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$4,780         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$25,087       \$14,58         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
Big B Manufacturing, Inc.       \$1,848       \$0       \$1,920       \$         General Dynamics C4 Systems, Inc.       \$1,806       \$0       \$15,357       \$15,357         Brainbond, LLC       \$1,794       \$0       \$0       \$         Adhesives Research, Inc.       \$1,741       \$0       \$32,284       \$2,20         NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$4,780       \$7,97         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$25,087       \$14,58         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					\$28,677
General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,357           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,741         \$0         \$32,284         \$2,20           NE Foods, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,693         \$0         \$7,976         \$7,97           Amer Precision Powder Coating, LLC         \$1,682         \$0         \$0         \$           Traypak Corporation         \$1,659         \$0         \$4,780         \$4,78           SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,633         \$0         \$2,679         \$2,67           S Vitale Pyrotechnic Industries, Inc.         \$1,628         \$0         \$17,477         \$16,94           Circadiance, LLC         \$1,622         \$0         \$0         \$25,087         \$14,58           Inmedius, Inc.         \$1,620         \$0         \$25,087         \$14,58	Neville Chemical Company	\$1,881		\$0	\$0
General Dynamics C4 Systems, Inc.         \$1,806         \$0         \$15,357         \$15,357           Brainbond, LLC         \$1,794         \$0         \$0         \$           Adhesives Research, Inc.         \$1,741         \$0         \$32,284         \$2,20           NE Foods, Inc.         \$1,696         \$0         \$4,270         \$4,27           CF Martin Co., Inc.         \$1,693         \$0         \$7,976         \$7,97           Amer Precision Powder Coating, LLC         \$1,682         \$0         \$0         \$           Traypak Corporation         \$1,659         \$0         \$4,780         \$4,78           SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,633         \$0         \$2,679         \$2,67           S Vitale Pyrotechnic Industries, Inc.         \$1,628         \$0         \$17,477         \$16,94           Circadiance, LLC         \$1,622         \$0         \$0         \$25,087         \$14,58           Inmedius, Inc.         \$1,620         \$0         \$25,087         \$14,58	Big B Manufacturing, Inc.	\$1,848	\$0	\$1,920	\$0
Brainbond, LLC       \$1,794       \$0       \$0       \$         Adhesives Research, Inc.       \$1,741       \$0       \$32,284       \$2,20         NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$7,97         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$25,087       \$14,58         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					\$15,357
Adhesives Research, Inc.       \$1,741       \$0       \$32,284       \$2,20         NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$7,97         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$25,087       \$14,58         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58	Brainbond, LLC				\$C
NE Foods, Inc.       \$1,696       \$0       \$4,270       \$4,27         CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$0         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$25,087       \$14,58         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
CF Martin Co., Inc.       \$1,693       \$0       \$7,976       \$7,97         Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
Amer Precision Powder Coating, LLC       \$1,682       \$0       \$0       \$         Traypak Corporation       \$1,659       \$0       \$4,780       \$4,78         SFS Intec Incorporated       \$1,652       \$0       \$806       \$28         Loridian, LLC       \$1,633       \$0       \$2,679       \$2,67         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
Traypak Corporation         \$1,659         \$0         \$4,780         \$4,78           SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,633         \$0         \$2,679         \$2,67           S Vitale Pyrotechnic Industries, Inc.         \$1,628         \$0         \$17,477         \$16,94           Circadiance, LLC         \$1,622         \$0         \$0         \$           Inmedius, Inc.         \$1,620         \$0         \$25,087         \$14,58	Amer Precision Powder Coating, LLC				
SFS Intec Incorporated         \$1,652         \$0         \$806         \$28           Loridian, LLC         \$1,633         \$0         \$2,679         \$2,67           S Vitale Pyrotechnic Industries, Inc.         \$1,628         \$0         \$17,477         \$16,94           Circadiance, LLC         \$1,622         \$0         \$0         \$           Inmedius, Inc.         \$1,620         \$0         \$25,087         \$14,58					
Loridian, LLC       \$1,633       \$0       \$2,679       \$2,679         S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
S Vitale Pyrotechnic Industries, Inc.       \$1,628       \$0       \$17,477       \$16,94         Circadiance, LLC       \$1,622       \$0       \$0       \$         Inmedius, Inc.       \$1,620       \$0       \$25,087       \$14,58					
Circadiance, LLC         \$1,622         \$0         \$0         \$           Inmedius, Inc.         \$1,620         \$0         \$25,087         \$14,58	·				
Inmedius, Inc. \$1,620 \$0 \$25,087 \$14,58					
\$1,618  \$0  \$0 \$					
	ASI recnnologies, Inc.	\$1,618	\$0	\$0	\$0

2010 Credit   Awarded   Utiliz		\$809 \$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$0 \$0 \$102,209 \$4,614 \$0 \$0 \$3,022
Taxpayer Name         Awarded         Utilize           J Baur Machining, Inc.         \$1,606           Inspirafs, Inc.         \$1,585           Invivodata, Inc.         \$1,581           Specialty Tires of America PA         \$1,578           Smoothon, Inc.         \$1,564           Polymeric Systems, Inc.         \$1,553           Lebanon Tool Company, Inc.         \$1,537           Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Credit Awarded \$13,306 \$809 \$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	Utilized 1 \$13,306 \$0 \$0 \$102,209 \$4,614 \$0 \$0 \$3,022
Taxpayer NameAwardedUtilizJ Baur Machining, Inc.\$1,606Inspirafs, Inc.\$1,585Invivodata, Inc.\$1,581Specialty Tires of America PA\$1,578Smoothon, Inc.\$1,564Polymeric Systems, Inc.\$1,553Lebanon Tool Company, Inc.\$1,537Robert Bosch, LLC\$1,518Portec Rail Products, Inc.\$1,516Technology Patents Licensing, Inc.\$1,501Surface Chemistry Discoveries, Inc.\$1,480Renaissance Nutrition, Inc.\$1,477David Michael & Co., Inc.\$1,464Met-Pro Corporation\$1,422Fry Communications, Inc.\$1,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$13,306 \$809 \$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$13,306 \$0 \$0 \$102,209 \$4,614 \$0 \$0 \$3,022
J Baur Machining, Inc.   \$1,606     Inspirafs, Inc.   \$1,585     Invivodata, Inc.   \$1,581     Specialty Tires of America PA   \$1,578     Smoothon, Inc.   \$1,564     Polymeric Systems, Inc.   \$1,553     Lebanon Tool Company, Inc.   \$1,537     Robert Bosch, LLC   \$1,518     Portec Rail Products, Inc.   \$1,516     Technology Patents Licensing, Inc.   \$1,501     Surface Chemistry Discoveries, Inc.   \$1,480     Renaissance Nutrition, Inc.   \$1,477     David Michael & Co., Inc.   \$1,464     Met-Pro Corporation   \$1,422     Fry Communications, Inc.   \$1,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$13,306 \$809 \$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$13,306 \$0 \$0 \$102,209 \$4,614 \$0 \$0 \$3,022
Inspirafs, Inc.         \$1,585           Invivodata, Inc.         \$1,581           Specialty Tires of America PA         \$1,578           Smoothon, Inc.         \$1,564           Polymeric Systems, Inc.         \$1,553           Lebanon Tool Company, Inc.         \$1,537           Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,422           Fry Communications, Inc.         \$1,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$809 \$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$0 \$102,209 \$4,614 \$0 \$0 \$3,022
Invivodata, Inc.	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$8,236 \$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$102,209 \$1,614 \$0 \$0 \$3,022
Specialty Tires of America PA         \$1,578           Smoothon, Inc.         \$1,564           Polymeric Systems, Inc.         \$1,553           Lebanon Tool Company, Inc.         \$1,537           Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,422           Fry Communications, Inc.         \$1,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$102,209 \$4,614 \$0 \$0 \$47,850 \$2,200	\$102,209 \$4,614 \$0 \$0 \$3,022
Smoothon, Inc.         \$1,564           Polymeric Systems, Inc.         \$1,553           Lebanon Tool Company, Inc.         \$1,537           Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,422           Fry Communications, Inc.         \$1,414	\$0 \$0 \$0 \$0 \$0 \$0	\$4,614 \$0 \$0 \$47,850 \$2,200	\$4,614 \$0 \$0 \$3,022
Polymeric Systems, Inc.         \$1,553           Lebanon Tool Company, Inc.         \$1,537           Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,422           Fry Communications, Inc.         \$1,414	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$47,850 \$2,200	\$0 \$0 \$3,022
Lebanon Tool Company, Inc.       \$1,537         Robert Bosch, LLC       \$1,518         Portec Rail Products, Inc.       \$1,516         Technology Patents Licensing, Inc.       \$1,501         Surface Chemistry Discoveries, Inc.       \$1,480         Renaissance Nutrition, Inc.       \$1,477         David Michael & Co., Inc.       \$1,464         Met-Pro Corporation       \$1,422         Fry Communications, Inc.       \$1,414	\$0 \$0 \$0 \$0 \$0	\$0 \$47,850 \$2,200	\$0 \$3,022
Robert Bosch, LLC         \$1,518           Portec Rail Products, Inc.         \$1,516           Technology Patents Licensing, Inc.         \$1,501           Surface Chemistry Discoveries, Inc.         \$1,480           Renaissance Nutrition, Inc.         \$1,477           David Michael & Co., Inc.         \$1,464           Met-Pro Corporation         \$1,422           Fry Communications, Inc.         \$1,414	\$0 \$0 \$0 \$0	\$47,850 \$2,200	\$3,022
Portec Rail Products, Inc. \$1,516  Technology Patents Licensing, Inc. \$1,501  Surface Chemistry Discoveries, Inc. \$1,480  Renaissance Nutrition, Inc. \$1,477  David Michael & Co., Inc. \$1,464  Met-Pro Corporation \$1,422  Fry Communications, Inc. \$1,414	\$0 \$0 \$0	\$2,200	
Technology Patents Licensing, Inc. \$1,501  Surface Chemistry Discoveries, Inc. \$1,480  Renaissance Nutrition, Inc. \$1,477  David Michael & Co., Inc. \$1,464  Met-Pro Corporation \$1,422  Fry Communications, Inc. \$1,414	\$0 \$0		
Surface Chemistry Discoveries, Inc. \$1,480  Renaissance Nutrition, Inc. \$1,477  David Michael & Co., Inc. \$1,464  Met-Pro Corporation \$1,422  Fry Communications, Inc. \$1,414	\$0	\$0	\$2,200
Renaissance Nutrition, Inc. \$1,477  David Michael & Co., Inc. \$1,464  Met-Pro Corporation \$1,422  Fry Communications, Inc. \$1,414			\$0
Renaissance Nutrition, Inc. \$1,477  David Michael & Co., Inc. \$1,464  Met-Pro Corporation \$1,422  Fry Communications, Inc. \$1,414		\$0	\$0
David Michael & Co., Inc.\$1,464Met-Pro Corporation\$1,422Fry Communications, Inc.\$1,414			\$7,132
Met-Pro Corporation\$1,422Fry Communications, Inc.\$1,414	\$0		\$6,445
Fry Communications, Inc. \$1,414	\$0		\$12,702
	\$0		\$1,163
Ψ1,010	\$0		\$0
Vascularstrategies, LLC \$1,312	\$0 \$0		\$0
New Standard Corporation \$1,298	\$0 \$0		\$465
PRL, Inc. \$1,290	\$0		
Lake Tool, Inc. \$1,287	\$0	\$0	\$0
Precision Medical Products, Inc. \$1,285	\$0	\$3,485	\$3,485
InvestEdge, Inc. \$1,275	\$0		\$0
The Beistle Company \$1,237	\$0	\$0	\$0
Olympic Steel, Inc. \$1,225	\$0	\$0	\$0
American Hydro Corporation \$1,197	\$0	\$0	\$0
Godshalls Quality Meats, Inc. \$1,163	\$0	\$567	\$567
Dontech, Inc. \$1,150	\$0		\$42,901
TM Industrial Supply, Inc. \$1,145	\$0		\$1,371
Weaver Industries, Inc. \$1,136	\$0		
Cybergenetics Corp. \$1,124	\$0		\$9,257
Markel Corporation \$1,110	\$0		\$0
Saladax Biomedical, Inc. \$1,110	\$0 \$0		
The Fredericks Company \$1,100	\$0		
Levan Machine Co., Inc. \$1,092	\$0		
Polymedix Pharmaceuticals, Inc. \$1,090	\$0		\$97,346
Nitor Technologies, Inc. \$1,088	\$0		
Workhorse Rail, LLC \$1,049	\$0		
General Machine Products Co. Inc. \$1,034	\$0		
<b>Bostik, Inc.</b> \$1,021	\$0	\$1,657	\$1,657
Data View, Inc. \$1,000	\$0	\$1,166	\$0
Dart Container Corporation of PA \$979	\$0		
SS XRay Products, Inc. \$947	\$0		•
Dental Designs, Inc. \$929	\$0		
Boose at Cornwall, Inc. \$914	\$0		
Medical Products Laboratories, Inc. \$893	\$0 \$0		
Universal Refractories \$794	\$0 \$0		
Topflight Corporation \$777	\$0 \$0		\$0
Hindlepower, Inc. \$777	\$0 \$0		
Finish Thompson, Inc. \$733  PMC-Sierra US, Inc. \$726	\$0 \$0		
·			
Alertek, LLC \$725	\$0		
RF Extreme, LLC (f/k/a RF Central, LLC) \$640	\$0		
Solar Innovations, Inc. \$625	\$0		
Spring City Electrical Mfg. Co. \$623	\$0		\$2,294
Sealstrip Corporation \$615	\$0	\$53,149	\$53,149
X F Enterprises, Inc. \$593	\$0		
Comprehensive Safety Compliance, Inc. \$588	\$0		
Scientific Systems, Inc. \$587	\$0		

			2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	2008 & 2009 Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized 1
Hauck Manufacturing Company, Inc.	\$581	\$0	\$0	\$0
Visual Composites, LLC	\$556	\$0 \$0	\$0 \$0	\$0
Whitford Corporation	\$532	\$0	\$0	\$0
Schust Development, Inc.	\$521	\$0	\$0	\$0
RJM Manufacturing, Inc.	\$517	\$0	\$904	\$0
Elite Sportswear LLP	\$498	\$0	\$0	\$0
Valley Instrument Co., Inc.	\$480	\$0	\$0	\$0
Regal Cast, Inc.	\$455	\$0	\$0	\$0
Contec Systems Industrial Corp.	\$444	\$0	\$10,452	\$10,452
Pyrotek Incorporated	\$443	\$0	\$15,230	\$1,927
Whirley Industries, Inc.	\$401	\$0	\$0	\$0
Gaspari Farm Products, Inc.	\$399	\$0	\$0	\$0
Dauphin Precision Tool, LLC	\$370	\$0	\$613	\$0
Comfort Care Resources, Inc.	\$348	\$0	\$0	\$0
DFT, Inc.	\$347	\$0	\$0	\$0
Cue, Inc.	\$307	\$0	\$361	\$361
Keystone Abrasives Co.	\$303	\$0	\$724	\$724
Kalas Mfg., Inc.	\$297	\$0	\$50,520	\$50,520
LWI & Associates, Inc. Vigon International, Inc.	\$288 \$287	\$0 \$0	\$0 \$3,675	\$0 \$3,675
Marvell Semiconductor, Inc.	\$287 \$277	\$0 \$0	\$3,675	\$3,675
PM Computing, Inc.	\$277 \$274	\$0 \$0	\$0	\$0
Lozier Corporation	\$217	\$0 \$0	\$1,386	
Boose Aluminum Foundry Co., Inc.	\$181	\$0 \$0	\$7,160	\$494
LF Lambert Spawn Company, Inc.	\$181	\$0 \$0	\$0	\$0
PRL Industries, Inc.	\$179	\$0	\$0	\$0
Riggs Industries, Inc.	\$167	\$0	\$0	\$0
Atlas Minerals Chemicals, Inc.	\$145	\$0	\$0	\$0
Richardson Cooling Packages, LLC	\$139	\$0	\$13,409	\$1,382
Sylvin Technologies, Inc.	\$112	\$0	\$0	\$0
Tekresults, Ltd.	\$109	\$0	\$440	\$440
ImageCube, LLC	\$98	\$0	\$0	\$0
Blair Companies	\$44	\$0	\$5,379	
21st Century Software, Inc.	\$0	\$0	\$14,207	\$14,207
A Cubed Corporation	\$0	\$0	\$4,509	
Aberdeen Road Company	\$0	\$0	\$15,359	\$15,359
Accenture LLP	\$0		\$188,265	
Ace Animals, Inc.	\$0		\$9,224	
Aethon, Inc.	\$0		\$42,461	
Agrofresh, Inc.	\$0 \$0		\$123,236	
Air Products and Chemicals, Inc.	\$0 \$0		\$35,953 \$7,540	
AK Steel Corporation	\$0 \$0	\$0 \$0	\$7,540 \$3,635	
Algor, Inc. Alita Pharmaceuticals, Inc.	\$0 \$0	\$0 \$0	\$3,635 \$115,532	
Allegheny Ludlum Corporation	\$0		\$234,755	
Allomet Corporation	\$0		\$74,252	\$62,532
Altoona Beasley Manufacturing, Inc.	\$0	\$0	\$9,666	
American Manufacturing & Engineering	\$0	\$0 \$0	\$21,645	
Amgen, Inc.	\$0	\$0	\$955,716	
Amphenol Intercon Systems, Inc.	\$0	\$0	\$7,120	
Amplifier Research Corp.	\$0	\$0	\$14,188	
Animas Corporation	\$0	\$0	\$112,190	
Ansoft Corporation	\$0	\$0	\$54,595	
Ansys, Inc.	\$0		\$91,070	
Apogee Biotechnology Corporation	\$0	\$0	\$48,158	
Applied Systems Associates, Inc.	\$0	\$0	\$87,271	
Arkema, Inc.	\$0	\$0	\$163,241	
Arrow International, Inc.	\$0		\$129,944	

Taxpayer Name					2000 8 2000
Taxpayer Name			2010 Cradit	2008 & 2009	2008 & 2009
Aveite Technologies, Inc.  \$0 \$0 \$55\$ \$55\$  Ascenta Therapeutics, Inc.  \$0 \$0 \$570,896 \$73,896  Auxilium Pharmaceuticals, Inc.  \$0 \$0 \$570,896 \$73,896  Auxilium Pharmaceuticals, Inc.  \$0 \$0 \$570,896 \$73,896  Auxilium Pharmaceuticals, Inc.  \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$0 \$0 \$12,9688 \$18,400  \$0 \$0 \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$16,620  \$0 \$0 \$0 \$1,620  \$0 \$0 \$0 \$1,620  \$0 \$0 \$1,620  \$0 \$0 \$0 \$1,620  \$0					
Ascenta Therapeutics, Inc.	• •				
Auxilium Pharmaceuticals, Inc.   \$0   \$0   \$129.688   \$18.400   \$80   \$90			·		
BAG Manufacturing Co., Inc.					
Bayone Urethane Systems LLC					
Beaumont Technologies, Inc.					
Becton Dickinson and Company					
Belco   Tool And Manufacturing, Inc   S0   \$0   \$10,639   \$1					
Benton Foundry, Inc.					
Berks Engineering Company   \$0   \$0   \$5,539   \$5,531   \$1   \$1   \$1   \$2,43   \$2,64   \$3,535   \$3,5					\$0
Bio Rad Laboratories, Inc.					
Biomarine Ntron, Inc.					
Biosafe, Inc.					\$0
BioSpectra, Inc.					
Bloom Engineering Company, Inc.					
Bottech, Inc.					
Brotech Corporation					. ,
Bulk Chemicals, Inc.					
Burnham LLC					
Syproduct Industries, Inc.   \$0   \$0   \$472   \$472   \$472   \$472   \$472   \$472   \$473   \$78,800   \$0   \$14,193   \$78,800   \$0   \$10,246   \$775   \$200   \$0   \$10,246   \$775   \$200   \$0   \$10,246   \$775   \$200   \$0   \$10,246   \$775   \$200   \$0   \$10,546   \$775   \$200   \$0   \$10,546   \$775   \$200					
CA Research, Inc. Caledonian Dye Works, Inc. Caledonian Dye Works, Inc. So Cancer Innovations, Inc. So					
Caledonian Dye Works, Inc.         \$0         \$0         \$10,246         \$77.           Card cer Innovations, Inc.         \$0         \$0         \$1,058         \$1           Cardiokine Biopharma LLC         \$0         \$0         \$21,419         \$1           Cardiokine Biopharma LLC         \$0         \$0         \$11,847         \$5,444           Cellatope Corporation         \$0         \$0         \$18,919         \$18,919         \$13,919           Centocor Research & Development, Inc.         \$0         \$0         \$52,09,250 <td></td> <td></td> <td></td> <td></td> <td>\$472</td>					\$472
Cancer Innovations, Inc.         \$0         \$0         \$1,058         \$           Cardiokine Biopharma LLC         \$0         \$0         \$21,419         \$           Cardone Industries, Inc.         \$0         \$0         \$11,847         \$5,44           Cellatope Corporation         \$0         \$0         \$18,919         \$18,919           Centocor Research & Development, Inc.         \$0         \$0         \$5,209,250         \$5,209,250           Certainteed Corporation         \$0         \$0         \$16,970         \$13,78           Channellock, Inc.         \$0         \$0         \$13,208         \$132,028           Ciber, Inc.         \$0         \$0         \$132,028         \$132,028           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$18,424         \$0           Civil Environmental Consultants         \$0         \$0         \$132,028         \$12,292           Civil Environmental Consultants         \$0         \$0         \$12,292         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$132,022         \$0         \$0         \$132,022         \$0<					
Cardiokine Biopharma LLC         \$0         \$0         \$21,419         \$1           Cardone Industries, Inc.         \$0         \$0         \$11,847         \$5,444           Cellatope Corporation         \$0         \$0         \$18,919         \$18,919           Centocor Research & Development, Inc.         \$0         \$0         \$5,209,250         \$5,209,250           Certainteed Corporation         \$0         \$0         \$16,970         \$13,788           Channellock, Inc.         \$0         \$0         \$23,355         \$8           Ciber, Inc.         \$0         \$0         \$132,028         \$132,028           Ciblon Semiconductor Device Corporation         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$22,292         \$2,292           Clinical Financial Services, LLC         \$0         \$0         \$18,424         \$1           Coexprise, Inc.         \$0         \$0         \$32,036         \$1           Collagesnet, Inc.         \$0         \$0         \$32,036         \$1           Competition Tire East, Inc.         \$0         \$0					
Cardone Industries, Inc.         \$0         \$0         \$11,847         \$5,449           Cellatope Corporation         \$0         \$0         \$18,919         \$11,919         \$13,028         \$13,762         \$13,028         \$13,762         \$13,762         \$13,762         \$13,762         \$13,762         \$13,762         \$13,762         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028         \$13,2028					\$0
Cellatope Corporation         \$0         \$18,919         \$18,919           Centocor Research & Development, Inc.         \$0         \$0         \$5,209,250         \$5,209,250           Certainteed Corporation         \$0         \$0         \$16,970         \$13,788           Channellock, Inc.         \$0         \$0         \$23,355         \$132,028           Ciber, Inc.         \$0         \$0         \$132,028         \$132,022           Ciclon Semiconductor Device Corporation         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$18,424         \$1           Coverprise, Inc.         \$0         \$0         \$18,424         \$1           Collagesnet, Inc.         \$0         \$0         \$19,352         \$1           Computer Support Services, Inc.         \$0         \$0         \$7,714         \$71           Controlled Chemicals, Inc.         \$0         \$0					\$0
Centocor Research & Development, Inc.         \$0         \$5,209,250         \$5,209,250           Certainteed Corporation         \$0         \$0         \$16,970         \$13,78           Channellock, Inc.         \$0         \$0         \$23,355         \$8           Ciber, Inc.         \$0         \$0         \$132,028         \$132,022           Ciclon Semiconductor Device Corporation         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$18,424         \$1           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Civil Environmental Consultants         \$0         \$0         \$32,036         \$3           Civil Environmental Consultants         \$0         \$0         \$32,292         \$2,292           Civil Environmental Consultants					\$5,449
Certainteed Corporation         \$0         \$0         \$16,970         \$13,78           Channellock, Inc.         \$0         \$0         \$23,355         \$           Ciber, Inc.         \$0         \$0         \$132,028         \$132,028           Ciclon Semiconductor Device Corporation         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Cilnical Financial Services, LLC         \$0         \$0         \$18,424         \$           Collagesnet, Inc.         \$0         \$0         \$32,036         \$           Collagesnet, Inc.         \$0         \$0         \$19,352         \$           Computer Support Services, Inc.         \$0         \$0         \$5,784         \$5,78           Computer Support Services, Inc.         \$0         \$0         \$17,757         \$717           Controlled Chemicals, Inc.         \$0         \$0         \$19,55         \$5           Controlled Chemicals, Inc.         \$0         \$0         \$17,024         \$14,62           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cowk Vascular Corporation         \$0         \$0         \$12,109					
Channellock, Inc.         \$0         \$0         \$23,355         \$8           Ciber, Inc.         \$0         \$0         \$132,028         \$132,028         \$132,028         \$132,028         \$24           Civoli Environmental Consultants         \$0         \$0         \$2,292         \$2,292         \$2,292         \$2,292         \$2,293         \$2,292         \$2,293         <	Centocor Research & Development, Inc.	\$0	\$0	\$5,209,250	\$5,209,250
Ciber, Inc.         \$0         \$132,028         \$132,028           Ciclon Semiconductor Device Corporation         \$0         \$0         \$72,501         \$24           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Cinical Financial Services, LLC         \$0         \$0         \$18,424         \$1           Coexprise, Inc.         \$0         \$0         \$32,036         \$3           Collagesnet, Inc.         \$0         \$0         \$19,352         \$5           Computer Support Services, Inc.         \$0         \$0         \$5,784         \$5,786           Computer Support Services, Inc.         \$0         \$0         \$19,55         \$7,78           Computer Support Services, Inc.         \$0         \$0         \$19,55         \$7,78           Computer Support Services, Inc.         \$0         \$0         \$19,55         \$7,88           Computer Support Services, Inc.         \$0         \$0         \$1,79         \$7,71         \$7,71           Controlled Chemicals, Inc.         \$0         \$0         \$0         \$1,79         \$1,79         \$1,62         \$1,62         \$1,62         \$1,62         \$1,62         \$1,62         \$1,62         \$1,62         \$1,62         \$					
Ciclon Semiconductor Device Corporation         \$0         \$72,501         \$248           Civil Environmental Consultants         \$0         \$0         \$2,292         \$2,292           Clinical Financial Services, LLC         \$0         \$0         \$18,424         \$1           Coexprise, Inc.         \$0         \$0         \$32,036         \$1           Collagesnet, Inc.         \$0         \$0         \$19,352         \$1           Competition Tire East, Inc.         \$0         \$0         \$5,784         \$5,78           Computer Support Services, Inc.         \$0         \$0         \$11,77         \$71           Control Chief Corporation         \$0         \$0         \$195         \$5.           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$5.           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$168,770         \$168,770           D&E Machining, Inc.         \$0         \$0         \$1,911         \$0	Channellock, Inc.				
Civil Environmental Consultants         \$0         \$2,292         \$2,292           Clinical Financial Services, LLC         \$0         \$0         \$18,424         \$1           Coexprise, Inc.         \$0         \$0         \$32,036         \$3           Collagesnet, Inc.         \$0         \$0         \$19,352         \$1           Competition Tire East, Inc.         \$0         \$0         \$5,784         \$5,785           Computer Support Services, Inc.         \$0         \$0         \$177         \$717           Control Chief Corporation         \$0         \$0         \$195         \$55           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$5           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,409         \$12,109           B&E Machining, Inc.         \$0         \$0         \$18,791         \$168,770           Datacap Systems, Inc.         \$0         \$0         \$1,911         \$1 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Clinical Financial Services, LLC					\$245
Coexprise, Inc.         \$0         \$0         \$32,036         \$6           Collagesnet, Inc.         \$0         \$0         \$19,352         \$17,000           Competition Tire East, Inc.         \$0         \$0         \$5,784         \$5,784           Computer Support Services, Inc.         \$0         \$0         \$717         \$717           Control Chief Corporation         \$0         \$0         \$195         \$55           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$1           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$1           Cownaid Corporation         \$0         \$0         \$17,024         \$14,662           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,841           Date Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Date Machining, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$0 <t< td=""><td></td><td></td><td>· ·</td><td></td><td>\$2,292</td></t<>			· ·		\$2,292
Collagesnet, Inc.         \$0         \$0         \$19,352         \$1           Competition Tire East, Inc.         \$0         \$0         \$5,784         \$5,784           Computer Support Services, Inc.         \$0         \$0         \$717         \$717           Control Chief Corporation         \$0         \$0         \$195         \$55           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$5           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,845           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Batacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$0           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$0           Discovery Laboratories, Inc.         \$0         \$0         \$30,3347         \$17,275 <td></td> <td></td> <td></td> <td></td> <td></td>					
Competition Tire East, Inc.         \$0         \$5,784         \$5,784           Computer Support Services, Inc.         \$0         \$0         \$717         \$717           Control Chief Corporation         \$0         \$0         \$195         \$55           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$1           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,844           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$1           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$11,799         \$11,799           Discovery Laboratories, Inc.         \$0         \$0         \$33,3347         \$17,279           DoPACO, Inc.         \$0         \$0         \$6,385         \$6,385					
Computer Support Services, Inc.         \$0         \$0         \$717         \$71           Control Chief Corporation         \$0         \$0         \$195         \$5           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$6           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$12,109         \$12,109           Data Systems, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Dentsply LLC         \$0         \$0         \$1,011         \$0           Dentsply Prosthetics LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$30,347         \$17,279           Dentsply Prosthetics Inc.         \$0         \$0         \$30,347         \$17,279					\$0
Control Chief Corporation         \$0         \$0         \$195         \$55           Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$1           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,622           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,843           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$6           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$30,347         \$17,279           Dentsply Prosthetics LLC         \$0         \$0         \$30,347         \$17,279           Dentsply Prosthetics LLC         \$0         \$0         \$6,385         \$6,385           Discovery Laboratories, Inc.         \$0         \$0         \$0         \$25,280					\$5,784
Controlled Chemicals, Inc.         \$0         \$0         \$30,655         \$1           Cook Vascular Corporation         \$0         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,843           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$0           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$11,799         \$11,799           Discovery Laboratories, Inc.         \$0         \$0         \$30,347         \$17,279           DPACO, Inc.         \$0         \$0         \$30,347         \$17,279           DPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Dynamit Incorporated         \$0         \$0         \$21,008         \$21,008	Computer Support Services, Inc.				
Cook Vascular Corporation         \$0         \$17,024         \$14,629           Crayola LLC         \$0         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,843           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$6           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$11,799           Discovery Laboratories, Inc.         \$0         \$0         \$81,228         \$17,279           Doracy Laboratories, Inc.         \$0         \$0         \$83,334         \$17,279           DoPACO, Inc.         \$0         \$0         \$30,347         \$17,279           DoPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draager Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Dynamet Incorporated         \$0         \$0         \$21,008         \$21,008         \$21,008					
Crayola LLC         \$0         \$12,109         \$12,109           Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,843           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$6           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$11,799           Discovery Laboratories, Inc.         \$0         \$0         \$81,228         \$17,279           Discovery Laboratories, Inc.         \$0         \$0         \$81,228         \$17,279           DPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamic Materials Corporation         \$0         \$0         \$13,800         \$10,376           Dynawis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978 <td></td> <td></td> <td></td> <td></td> <td></td>					
Cummins-Allison Corp.         \$0         \$0         \$2,843         \$2,843           D&E Machining, Inc.         \$0         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$1           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$1           Discovery Laboratories, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,370           Dynamic Materials Corporation         \$0         \$0         \$57,978         \$57,978           Dynamic Therapeutics, Inc.         \$0         \$0         \$10,9519         \$41,960 <td></td> <td></td> <td></td> <td></td> <td></td>					
D&E Machining, Inc.         \$0         \$7,918         \$7,918           Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$0           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$0           Discovery Laboratories, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,976           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0				\$12,109	\$12,109
Datacap Systems, Inc.         \$0         \$0         \$168,770         \$168,770           Deborah A. Rinehart         \$0         \$0         \$1,011         \$1           Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$0           Discovery Laboratories, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$6,385         \$6,385           Duratite Systems LLC         \$0         \$0         \$25,280         \$25,280           Dynamet Incorporated         \$0         \$0         \$21,008         \$21,008           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$1,888         \$1,888					
Deborah A. Rinehart         \$0         \$0         \$1,011         \$6           Dentsply LLC         \$0         \$0         \$11,799	D&E Machining, Inc.				
Dentsply LLC         \$0         \$0         \$11,799         \$11,799           Dentsply Prosthetics LLC         \$0         \$0         \$81,228         \$1           Discovery Laboratories, Inc.         \$0         \$0         \$30,347         \$17,279           DOPACO, Inc.         \$0         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,976           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$0         \$1,888         \$1,886           Eagle Brass Company         \$0         \$1,888         \$1,886					
Dentsply Prosthetics LLC					
Discovery Laboratories, Inc.       \$0       \$0       \$30,347       \$17,279         DOPACO, Inc.       \$0       \$0       \$6,385       \$6,385         Draeger Medical Systems, Inc.       \$0       \$0       \$25,280       \$25,280         Duratite Systems LLC       \$0       \$0       \$21,008       \$21,008         Dynamet Incorporated       \$0       \$0       \$13,800       \$10,378         Dynamic Materials Corporation       \$0       \$0       \$2,912       \$2,912         Dynamis Therapeutics, Inc.       \$0       \$0       \$57,978       \$57,978         Dynavox Systems LLC       \$0       \$0       \$19,607       \$6         E I Du Pont De Nemours and Company       \$0       \$0       \$109,519       \$41,960         Eagle Brass Company       \$0       \$0       \$1,888       \$1,888					\$11,799
DOPACO, Inc.         \$0         \$6,385         \$6,385           Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,976           Dynavox Systems LLC         \$0         \$0         \$19,607         \$6           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888					
Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888	Discovery Laboratories, Inc.	\$0	\$0	\$30,347	\$17,279
Draeger Medical Systems, Inc.         \$0         \$0         \$25,280         \$25,280           Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888					
Duratite Systems LLC         \$0         \$0         \$21,008         \$21,008           Dynamet Incorporated         \$0         \$0         \$13,800         \$10,376           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888		\$0		\$25,280	\$25,280
Dynamet Incorporated         \$0         \$0         \$13,800         \$10,378           Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$6           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888		\$0			
Dynamic Materials Corporation         \$0         \$0         \$2,912         \$2,912           Dynamis Therapeutics, Inc.         \$0         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$6           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888		\$0			
Dynamis Therapeutics, Inc.         \$0         \$57,978         \$57,978           Dynavox Systems LLC         \$0         \$0         \$19,607         \$1           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$1,888         \$1,888					
Dynavox Systems LLC         \$0         \$19,607         \$0           E I Du Pont De Nemours and Company         \$0         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$0         \$1,888         \$1,888					
E I Du Pont De Nemours and Company         \$0         \$109,519         \$41,960           Eagle Brass Company         \$0         \$0         \$1,888         \$1,888					
<b>Eagle Brass Company</b> \$0 \$1,888 \$1,888					
	Eagle Far East, Inc.	\$0		\$1,752	\$1,701

			2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized 1
East Coast Erosion Blankets LLC	\$0	\$0	\$5,269	
	\$0 \$0			. ,
East Penn Manufacturing Company		\$0	\$42,591	\$0
Eaton Electrical, Inc.	\$0	\$0	\$390,576	
Eclipsys Solutions Corporation	\$0	\$0	\$27,691	\$496
Ecore International, Inc.	\$0	\$0	\$7,825	
Electron Energy Corporation	\$0	\$0	\$27,203	\$3,846
Electronics for Imaging, Inc.	\$0	\$0	\$50,117	\$50,117
End User Services, Inc.	\$0	\$0	\$6,040	\$6,040
Energy Technology Partners, LLC	\$0	\$0	\$30,215	\$30,215
Equitable Gathering, Inc.	\$0	\$0	\$3,967	
Equitable Production Company	\$0	\$0	\$14,947	\$14,947
Erie Plastics Corporation	\$0	\$0	\$5,768	
Essent Corporation	\$0	\$0	\$1,065	
Evaheart Medical USA, Inc.	\$0	\$0 \$0	\$1,086	
Everite Machine Products Co., Inc.	\$0 \$0	\$0 \$0	\$5,614	
Excalibur Machine, Inc.	\$0	\$0	\$1,211	\$0
Fabri Kal Corporation	\$0	\$0	\$10,121	\$3,957
Fairmount Automation, Inc.	\$0	\$0	\$732	
Flair Corporation	\$0	\$0	\$10,821	
Fleetwood Industries	\$0	\$0	\$54,385	\$10,264
FMC Technologies Measurement Solutions, Inc.	\$0	\$0	\$5,996	\$5,996
Follett Corporation	\$0	\$0	\$6,706	\$6,706
Foodswing, Inc.	\$0	\$0	\$6,829	\$0
Freedom Sciences LLC	\$0	\$0	\$67,782	
Frewmill Die Crafts, Inc.	\$0	\$0	\$34,041	\$12,570
Frontline Placement Technologies, Inc.	\$0	\$0	\$46,359	
FS Elliott Co., LLC	\$0	\$0 \$0	\$38,536	
,				
Fusion Coatings, Inc.	\$0	\$0	\$1,079	
Gardengenetics LLC	\$0	\$0	\$4,191	\$4,191
Giorgi Foods, Inc.	\$0	\$0	\$23,285	
Giorgi Mushroom Co.	\$0	\$0	\$10,466	
Global, Inc.	\$0	\$0	\$13,515	
Globalpops Media Services LLC	\$0	\$0	\$4,597	\$4,597
Goulds Pumps PA, Inc.	\$0	\$0	\$1,405	\$1,405
Graco Children's Products, Inc.	\$0	\$0	\$89,890	\$7,721
Graphite Machining, Inc.	\$0	\$0	\$13,674	\$10,383
Graymont (PA), Inc.	\$0	<u> </u>	\$17,608	
Greenleaf Corporation	\$0	\$0	\$37,207	
Griffith, Inc. (ta Alpha Systems)	\$0 \$0	\$0 \$0	\$13,128	
GVM, Inc.	\$0	\$0 \$0	\$2,411	
Harbor Steel, Inc.	\$0	\$0 \$0	\$4,658	
·				
Hazleton Casting Company	\$0	\$0	\$4,072	
Herley Industries, Inc.	\$0	\$0	\$3,455	
Hermance & Strouse Inc.	\$0	\$0	\$15,106	
Herr Foods, Inc.	\$0	\$0	\$1,842	
Hofman Industries, Inc.	\$0	\$0	\$1,257	\$456
Illinois Tool Works, Inc.	\$0	\$0	\$36,287	\$0
Immune Control, Inc.	\$0	\$0	\$310,349	\$166,014
Implementation & Consulting Service	\$0	\$0	\$1,701	
Infrascan, Inc.	\$0	\$0	\$33,004	
Innovative Solutions & Support, Inc.	\$0	\$0	\$238,200	
IntelliStem Orthopaedic Innovations, Inc.	\$0	\$0	\$2,435	
Interisted Orthopaedic Innovations, Inc.	\$0	\$0 \$0		
	\$0 \$0		\$24,416	
Interstate Management Resources, Inc.		\$0 \$0	\$69,530	
IOFY Corporation	\$0	\$0	\$60,335	
Ira G. Steffy Son, Inc.	\$0	\$0	\$8,460	\$8,460
J&J Pharmaceutical Research and Development LLC	\$0	\$0	\$629,531	\$629,531
James L. Rutkowski, DMD & Associates	\$0	\$0	\$1,595	

			0000 8 0000	2008 & 2009
	2040 One dit	2010 Credit	2008 & 2009	Credit
T	2010 Credit	Utilized <sup>1</sup>	Credit Awarded	Utilized <sup>1</sup>
Taxpayer Name	Awarded			
Jamestown Paint Company	\$0	\$0		\$4,709
Jarex Enterprises LLC	\$0 \$0	\$0	\$3,670	
JB Kintner & Sons	\$0 \$0	\$0 \$0	\$1,661	\$1,661
Jeannette Shade and Novelty Company	\$0 \$0	\$0 \$0	\$15,249	\$99
Jennison Precision Machine, Inc. JTM Foods, Inc.	\$0 \$0	\$0 \$0	. ,	\$2,015
Justsystems Evans Research, Inc.	\$0	\$0 \$0	\$17,875 \$62,907	\$17,875 \$0
JW Kitko & Sons Wood Products Inc.	\$0	\$0 \$0	\$4,102	\$4,102
K H Technologies	\$0	\$0 \$0	\$1,936	1936
Kaolin Mushroom Farms, Inc.	\$0	\$0 \$0	\$13,579	\$0
Kenco Corporation	\$0	\$0 \$0		T -
Kensey Nash Corporation	\$0	\$0 \$0	\$33,090	\$33,090
Koehler-Bright Star Inc.	\$0	\$0 \$0	\$6,717	\$6,717
Kopcoat, Inc.	\$0	\$0 \$0	\$1,487	\$0,717
Kopp Glass, Inc.	\$0	\$0 \$0	\$418	\$418
Koryak Consulting Inc.	\$0	\$0 \$0	\$11,843	\$4,114
Kovatch Corp.	\$0	\$0 \$0	\$1,543 \$1,527	\$1,527
Kovatch Mobile Equipment	\$0	\$0 \$0	\$14,522	\$1,52 <i>1</i> \$142
KW Inc.	\$0	\$0 \$0	\$9,250	\$9,250
L T H, Inc,	\$0	\$0 \$0	\$3,246	\$0
Lazarus Therapeutics, Inc.	\$0	\$0	\$8,646	\$0
LCM Technologies, Inc.	\$0	\$0	\$9,024	\$9,024
LCR Electronics, Inc.	\$0	\$0	\$69,643	\$56,333
Lehigh Valley Technologies, Inc.	\$0	\$0	\$6,930	\$43
Lepton Technologies Inc.	\$0	\$0	\$19,489	\$0
Library Video Company	\$0	\$0	\$17,820	\$0
Lightfoot, Inc.	\$0	\$0	\$24,668	\$24,668
LL Kurtz, Inc.	\$0	\$0	\$5,879	\$5,879
Locus Pharmaceuticals, Inc.	\$0	\$0	\$56,349	\$1,847
Lord Corporation	\$0	\$0		\$38,941
LPS Mortgage Processing Solutions, Inc.	\$0	\$0	\$12,877	\$12,877
LWB Refractories Company	\$0	\$0	\$9,614	\$9,614
Lyco I LLC	\$0	\$0	\$18,830	
Mack Trucks, Inc.	\$0	\$0	\$302,585	\$302,585
Magnatech International, Inc.	\$0	\$0	\$3,477	\$2,307
Majr Products Corporation	\$0	\$0	\$7,353	\$7,353
MapQuest, Inc.	\$0	\$0	\$52,293	
Matrix Operations Company, LLC	\$0	\$0	\$102,668	
McDaniel Advanced Ceramic	\$0	\$0	\$12,089	
MDL Corporation	\$0	\$0	\$3,771	\$3,771
Medicigroup, Inc.	\$0	\$0		
MH Eby, Inc.	\$0	\$0	\$976	\$976
Mine Safety Appliances Company	\$0	\$0	\$185,740	\$185,740
Minus Nine Technologies, Inc.	\$0	\$0	\$662	\$0
Misco Products Corporation	\$0	\$0		\$0
Monsanto Company	\$0	\$0	\$8,328	\$5,774
Moon Tool & Die, Inc.	\$0	\$0	\$11,201	\$11,201
Morphotek, Inc.	\$0	\$0		\$0
Mr. Bradley C. Rinehart	\$0			\$2,243
NAC Carbon Products, Inc.	\$0	\$0		\$16,685
National Bearings Company	\$0	\$0	\$19,613	\$19,613
National Magnetics Group, Inc.	\$0	\$0		
Neotropix, Inc.	\$0	\$0		\$223,640
New Way Machine Components, Inc.	\$0	\$0		\$43,069
Newage Industries, Inc.	\$0	\$0		\$8,644
NH Laboratories, Inc.	\$0	\$0	\$4,456	\$4,456
NMS Labs, Inc. (fka National Medical Services, Inc.)	\$0	\$0	\$24,435	\$24,435
Novartis Pharmaceuticals Corporation	\$0			
			· · · · · · · · · · · · · · · · · · ·	

Taxpayer Name					
Awarded   Marided   Marided   Marided   Utilized				2008 & 2009	2008 & 2009
NTA Enterprises, Inc.  S0 S0 S515 S3.  Nucleonics, Inc.  S0 S0 S6,292 S86,29  Nucleonics, Inc.  S0 S0 S6,292 S86,29  Nucleonics, Inc.  S0 S0 S6,1918 S3,34  Oberg Industries, Inc.  S0 S0 S6,1918 S3,34  Oberg Industries, Inc.  S0 S0 S6,1918 S3,34  Oberg Industries, Inc.  S0 S0 S6,1918 S3,34  S0 S61,918 S3,34  S1,032 S57,20  S1,032 S57,20  S1,032 S57,20  S1,032 S57,20  S1,04 S57		2010 Credit	2010 Credit	Credit	Credit
NTA Enterprises, Inc.  \$9 \$9 \$515 \$3  Nucleonics, Inc.  \$0 \$0 \$86,292 \$86,29  Nvidia Corporation  \$0 \$0 \$51 \$18,737  Service Company  \$1 \$14,77  OF Zurn Company  \$2 \$14,77  OF Zurn Company  \$3 \$1,034 \$31,034  \$31,035 \$31,034  \$31,034 \$31,034  \$	Taxpaver Name	Awarded	Utilized 1	Awarded	Utilized 1
Nucleonics.Inc.   \$0   \$0   \$86.202   \$86.20		\$0	\$0	\$515	\$35
Norldia Corporation   S0   S0   \$61.918   \$3.34					
Oberg Industries, Inc.					
OF Zurn Company    \$0					
OfficeDiggs, Inc.         \$0         \$0         \$31,034         \$31,034         \$31,034         \$31,034         \$31,034         \$32,44         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,244         \$12,243         \$13,243         \$12,243         \$13,243         \$13,243         \$13,243         \$13,243         \$13,243         \$13,243         \$13,243         \$13,244         \$12,244 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Omega Design Corporation         \$0         \$0         \$12,414         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,41         \$12,513         \$0         \$0         \$0         \$3,62         \$73,652					
Ontelaunee Farms, Inc.         \$0         \$0         \$8,310         SO         \$73,652         \$72,652         \$72,652         \$72,652         \$72,652         \$72,652 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Optium Corporation					
Orion Security LSP LLC Orarm Sylvania Products, Inc. S0 \$0 \$12,543 \$ S0 S0 \$17,549 \$ S0 \$0 \$17,594 \$ S0 \$0 \$0 \$17,594 \$ S0 \$0 \$0 \$1,110 \$ S0 \$0 \$0,110 \$ S0 \$0,110 \$ S0 \$0 \$0,110 \$ S0,110 \$ S0 \$0 \$0,110 \$ S0,110 \$ S0,110 \$ S0 \$0 \$0,110 \$ S0 \$0 \$0,110 \$ S0 \$0 \$0,110 \$ S0 \$0 \$0,110 \$ S0 \$0 \$0,12,69 \$ S0,10 \$ S0 \$0 \$1,269 \$ S0,126 \$ S0 \$0 \$1,269 \$ S0,126 \$ S0 \$1,269 \$ S0,20 \$ S0,126 \$ S0,126 \$ S0 \$1,269 \$ S0,20 \$ S0,126 \$ S0,20 \$ S0,127 \$ S0,120 \$ S0,1					
Osram Sylvania Products, Inc.         \$0         \$0         \$12,543         \$ \$78,615         \$78,616         \$78,616         \$78,616         \$78,616         \$78,616         \$78,611         \$86,11         \$61,11					
Othera Pharmaceuticals, Inc.   \$0   \$0   \$78.615   \$78					
Packer White Metal Company  \$0 \$0 \$0 \$17,594 \$  \$Parker White Metal Company  \$0 \$0 \$0 \$17,594 \$  \$6,118 \$6,111  PBM, Inc.  \$0 \$0 \$0 \$337 \$33  \$33,3					
Parker White Metal Company					
PB Heat, LLC  \$0 \$0 \$0 \$5.377 \$.33  Penn Engineering and Manufacturing Corp.  \$0 \$0 \$0 \$3.37 \$.33  Penn Engineering and Manufacturing Corp.  \$0 \$0 \$0 \$3.2698 \$.2.698  \$2.698 \$2.698  Penniake Corporation  \$0 \$0 \$0 \$1.265 \$1.265  Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$1.94087 \$5.80  Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$1.94.087 \$5.80  Pharmabridge, Inc.  \$0 \$0 \$0 \$24,443 \$12,30  PHB, Inc.  \$0 \$0 \$0 \$24,443 \$12,30  PHB, Inc.  \$0 \$0 \$0 \$20,284 \$20,28  Phoenix Trim Works, Inc.  \$0 \$0 \$0 \$20,284 \$20,28  Phonetics, Inc. (dba Sensaphone)  \$0 \$0 \$0 \$20,284 \$20,28  Pittsburgh Materials Technology, Inc.  \$0 \$0 \$0 \$5.618 \$6.13  Plantronics, Inc.  \$0 \$0 \$0 \$5.618 \$5.61  Splitsburgh Materials Technology, Inc.  \$0 \$0 \$0 \$5.618 \$5.61  Port Fire Plastics, Inc.  \$0 \$0 \$0 \$26,017 \$26.01  Port Fire Plastics, Inc.  \$0 \$0 \$0 \$26.017 \$26.01  Power Conversion Technologies, Inc.  \$0 \$0 \$0 \$12,750 \$12,750  Power Medical Interventions, Inc.  \$0 \$0 \$0 \$10,798 \$10,798  Power Medical Interventions, Inc.  \$0 \$0 \$0 \$10,798 \$10,798  Prescient Medical, Inc.  \$0 \$0 \$0 \$221,077 \$8  Progress For Industry Inc.  \$0 \$0 \$0 \$237,863  \$237,863  \$237,863  \$237,863  \$247,233  Protective Coating Co.  \$0 \$0 \$1,235 \$12,335  Protective Coating Co.  \$0 \$0 \$1,235 \$12,335  \$1,235  Protective Coating Co.  \$0 \$0 \$1,235 \$12,335  \$1,235  Protective Coating Co.  \$0 \$0 \$0 \$1,235 \$12,335  \$1,235  Protective Coating Co.  \$0 \$0 \$0 \$1,235 \$12,335  \$1,235  Protective Industries, Inc.  \$0 \$0 \$0 \$1,235 \$12,335  \$1,235  Protective Coating Co.  \$0 \$0 \$0 \$1,235 \$12,335  \$1,235  \$1,235  Protective Coating Co.  \$0 \$0 \$0 \$1,625 \$1,235  \$1,235  \$1,235  Protective Coating Co.  \$0 \$0 \$0 \$1,625 \$1,235  \$1,235  \$1,235  \$1,235  \$1,235  \$2,675  \$2,675  \$2,675  \$3,267  \$3,27  \$4,27  \$3,27  \$4,27  \$4,27  \$4,27  \$4,27  \$4,27  \$4,27  \$4,2					\$0
PBM, Inc.	PR Heat II C				
Penn Engineering and Manufacturing Corp.  \$0 \$0 \$0 \$9.422 \$3.24 Penn Weld Inc.  \$0 \$0 \$0 \$2.698 \$2.699 Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$11.265 \$1.265 Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$194.087 \$5.80 Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$194.087 \$5.80 Pennsylvania General Energy Company LLC  \$0 \$0 \$0 \$194.087 \$5.80 Pharmabridge, Inc.  \$0 \$0 \$0 \$4.443 \$12.30 PHB, Inc.  \$0 \$0 \$0 \$6.138 \$6.13 Phoenitics, Inc. (dba Sensaphone)  \$0 \$0 \$0 \$6.228 \$6.22 Phonetics, Inc. (dba Sensaphone)  \$0 \$0 \$0 \$6.228 \$6.22 Pittsburgh Materials Technology, Inc.  \$0 \$0 \$0 \$5.618 \$5.61 Plantronics, Inc.  \$0 \$0 \$0 \$5.618 \$5.61 Plantronics, Inc.  \$0 \$0 \$0 \$5.618 \$5.61 Pont Eric Plastics, Inc.  \$0 \$0 \$0 \$9.40 \$9.40 Poolpak Technologies Corporation  \$0 \$0 \$0 \$2.60,17 \$2.60,17 Power Conversion Technologies, Inc.  \$0 \$0 \$0 \$12,750 \$12,75 Powell Steel Corporation  \$0 \$0 \$0 \$112,750 \$10,798 Power Conversion Technologies, Inc.  \$0 \$0 \$0 \$67,335 \$3 Power Medical Interventions, Inc.  \$0 \$0 \$0 \$333,730 \$333,730 Prosen Pharmaceuticals, Inc.  \$0 \$0 \$0 \$333,730 \$333,730 Prism Pharmaceuticals, Inc.  \$0 \$0 \$0 \$221,077 \$8 Progress For Industry Inc.  \$0 \$0 \$0 \$237,863 \$237,865 Protatex, Inc.  \$0 \$0 \$0 \$237,863 \$237,865 Protatex, Inc.  \$0 \$0 \$0 \$1.233 \$11,059 Protective Coating Co.  \$0 \$0 \$0 \$1.233 \$1,333 \$1.93					
Penn   Meld Inc.   \$0   \$0   \$2,698   \$2,69   Pennlake Corporation   \$0   \$0   \$1,265   \$1,265   \$1,265   Pennsylvania General Energy Company LLC   \$0   \$0   \$14,087   \$5,50   \$194,087   \$1,265   \$1,				_	
Pennlake Corporation					
Pennsylvania General Energy Company LLC					
Pharmabridge, Inc.					
PHB, Inc.   \$0					
Phoenix Trim Works, Inc.   \$0					
Phonetics, Inc. (dba Sensaphone)   \$0					
Pittsburgh Materials Technology, Inc.   \$0					
Plantronics, Inc.					
Polytek Development Corp.   \$0					
Poolpak Technologies Corporation   \$0					
Port Erie Plastics, Inc.   \$0					
Powell Steel Corporation   \$0					
Power Conversion Technologies, Inc.   \$0					
Power Medical Interventions, Inc.   \$0					
Powercast Corporation					
Prescient Medical, Inc.         \$0         \$333,730         \$333,730           Prism Pharmaceuticals, Inc.         \$0         \$0         \$221,077         \$           Progress For Industry Inc.         \$0         \$0         \$2,675         \$2,675           Promedior, Inc.         \$0         \$0         \$237,863         \$237,863           Protalex, Inc.         \$0         \$0         \$111,059         \$58,43           Protective Coating Co.         \$0         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protective Industries, Inc.         \$0         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$0         \$4,723         \$4,72           PSB Industries, Inc.         \$0         \$0         \$0         \$4,723	,				
Prism Pharmaceuticals, Inc.         \$0         \$0         \$221,077         \$           Progress For Industry Inc.         \$0         \$0         \$2,675         \$2,67           Promedior, Inc.         \$0         \$0         \$237,863         \$237,863           Protalex, Inc.         \$0         \$0         \$111,059         \$58,43           Protective Coating Co.         \$0         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protective Industries, Inc.         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$1,233         \$1,233           P-Wave, Inc.         \$0         \$0         \$1,654         \$1,64					
Progress For Industry Inc.         \$0         \$2,675         \$2,675           Promedior, Inc.         \$0         \$0         \$237,863         \$237,863           Protaglex, Inc.         \$0         \$0         \$111,059         \$58,43           Protective Coating Co.         \$0         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protez Pharmaceuticals, Inc.         \$0         \$0         \$142,939         \$1,33           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$47,23         \$4,72           PSG Controls, Inc.         \$0         \$0         \$41,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$16,541         \$16,54           RE Whittaker Co.         \$0         \$0         \$16,541         \$16,54           Radius Corporation <td>,</td> <td></td> <td></td> <td></td> <td>\$0</td>	,				\$0
Promedior, Inc.         \$0         \$237,863         \$237,863           Protalex, Inc.         \$0         \$0         \$111,059         \$58,43           Protective Coating Co.         \$0         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protez Pharmaceuticals, Inc.         \$0         \$0         \$142,939         \$1,33           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$726         \$72           RE Whittaker Co.         \$0         \$0         \$16,541         \$16,544           Re Whittaker Co.         \$0         \$0         \$15,013         \$2,95           RCD Technology, Inc.         \$0         \$0         \$48,500         \$48,50           Reading Consumer Products, I	,				
Protalex, Inc.         \$0         \$0         \$111,059         \$58,43           Protective Coating Co.         \$0         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protez Pharmaceuticals, Inc.         \$0         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$726         \$72           R E Whittaker Co.         \$0         \$0         \$16,541         \$16,54           Radius Corporation         \$0         \$0         \$15,013         \$2,95           RCD Technology, Inc.         \$0         \$0         \$48,500         \$48,50           Reading Techn					
Protective Coating Co.         \$0         \$1,525         \$1,525           Protective Industries, Inc.         \$0         \$0         \$1,933         \$1,93           Protez Pharmaceuticals, Inc.         \$0         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$16,541         \$16,54           Redius Corporation         \$0         \$0         \$15,013         \$2,95           Reading Corporation         \$0         \$0         \$15,013         \$2,95           Reading Consumer Products, Inc.         \$0         \$0         \$1,869         \$7           Reading Technolog	,				
Protective Industries, Inc.         \$0         \$1,933         \$1,93           Protez Pharmaceuticals, Inc.         \$0         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,33           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$726         \$72           R E Whittaker Co.         \$0         \$0         \$16,541         \$16,54           Radius Corporation         \$0         \$0         \$15,013         \$2,95           RCD Technology, Inc.         \$0         \$0         \$48,500         \$48,500           Reading Consumer Products, Inc.         \$0         \$0         \$48,500         \$48,500           Reading Technologies, Inc.         \$0         \$0         \$49         \$           RedZante Robotics, Inc.         \$0         \$0         \$41,083         \$40,85           Relex Software C					
Protez Pharmaceuticals, Inc.         \$0         \$142,939         \$1,32           Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,335           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$726         \$72           R E Whittaker Co.         \$0         \$0         \$16,541         \$16,54           Radius Corporation         \$0         \$0         \$15,013         \$2,95           RCD Technology, Inc.         \$0         \$0         \$48,500         \$48,500           Reading Consumer Products, Inc.         \$0         \$0         \$48,500         \$48,500           Reading Technologies, Inc.         \$0         \$0         \$1,869         \$7           RedPath Integrated Pathology Inc.         \$0         \$0         \$1,214         \$1,21           Redzone Robotics, Inc.         \$0         \$0         \$41,083         \$40,85           Relex Software Corporation         \$0         \$41,083         \$40,85           Resco Prod					
Proxicast, LLC         \$0         \$0         \$2,024         \$2,02           PSB Industries, Inc.         \$0         \$0         \$4,723         \$4,72           PSG Controls, Inc.         \$0         \$0         \$12,335         \$12,335           P-Wave, Inc.         \$0         \$0         \$9,467         \$9,43           QBC Diagnostics, Inc.         \$0         \$0         \$726         \$72           R E Whittaker Co.         \$0         \$0         \$16,541         \$16,54           Radius Corporation         \$0         \$0         \$15,013         \$2,95           RCD Technology, Inc.         \$0         \$0         \$48,500         \$48,500           Reading Consumer Products, Inc.         \$0         \$0         \$1,869         \$7           Reading Technologies, Inc.         \$0         \$0         \$1,869         \$7           RedPath Integrated Pathology Inc.         \$0         \$0         \$1,214         \$1,21           Redzone Robotics, Inc.         \$0         \$0         \$41,083         \$40,85           Relex Software Corporation         \$0         \$0         \$41,917         \$41,91           Resco Products, Inc.         \$0         \$0         \$547         \$23					
PSB Industries, Inc.       \$0       \$4,723       \$4,723         PSG Controls, Inc.       \$0       \$0       \$12,335       \$12,335         P-Wave, Inc.       \$0       \$0       \$9,467       \$9,43         QBC Diagnostics, Inc.       \$0       \$0       \$726       \$72         R E Whittaker Co.       \$0       \$0       \$16,541       \$16,54         Radius Corporation       \$0       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,50         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$1,869       \$7         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$547       \$23         Reymet Corporation       \$0       \$0       \$1,108       \$1,108			·		
PSG Controls, Inc.       \$0       \$12,335       \$12,335         P-Wave, Inc.       \$0       \$0       \$9,467       \$9,43         QBC Diagnostics, Inc.       \$0       \$0       \$726       \$72         R E Whittaker Co.       \$0       \$0       \$16,541       \$16,54         Radius Corporation       \$0       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,500         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,083       \$40,85         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,108					
P-Wave, Inc.       \$0       \$9,467       \$9,43         QBC Diagnostics, Inc.       \$0       \$0       \$726       \$72         R E Whittaker Co.       \$0       \$0       \$16,541       \$16,54         Radius Corporation       \$0       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,50         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,108					
QBC Diagnostics, Inc.       \$0       \$726       \$72         R E Whittaker Co.       \$0       \$0       \$16,541       \$16,54         Radius Corporation       \$0       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,50         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,10					
R E Whittaker Co.       \$0       \$16,541       \$16,54         Radius Corporation       \$0       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,50         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,10		· · ·			
Radius Corporation       \$0       \$15,013       \$2,95         RCD Technology, Inc.       \$0       \$0       \$48,500       \$48,50         Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,108					
RCD Technology, Inc.       \$0       \$48,500       \$48,500       \$48,500       \$48,500       \$48,500       \$48,500       \$48,500       \$48,500       \$60       \$1,869       \$7       \$7       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$8       \$1,214       \$1,21 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Reading Consumer Products, Inc.       \$0       \$0       \$1,869       \$7         Reading Technologies, Inc.       \$0       \$0       \$49       \$         RedPath Integrated Pathology Inc.       \$0       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,10					
Reading Technologies, Inc.         \$0         \$0         \$49         \$           RedPath Integrated Pathology Inc.         \$0         \$0         \$1,214         \$1,21           Redzone Robotics, Inc.         \$0         \$0         \$41,083         \$40,85           Relex Software Corporation         \$0         \$0         \$41,917         \$41,91           Resco Products, Inc.         \$0         \$0         \$46,874         \$30,00           Rexmet Corporation         \$0         \$0         \$547         \$23           RJ Lee Group, Inc.         \$0         \$0         \$1,108         \$1,10					
RedPath Integrated Pathology Inc.       \$0       \$1,214       \$1,21         Redzone Robotics, Inc.       \$0       \$0       \$41,083       \$40,85         Relex Software Corporation       \$0       \$0       \$41,917       \$41,91         Resco Products, Inc.       \$0       \$0       \$46,874       \$30,00         Rexmet Corporation       \$0       \$0       \$547       \$23         RJ Lee Group, Inc.       \$0       \$0       \$1,108       \$1,10					
Redzone Robotics, Inc.         \$0         \$0         \$41,083         \$40,85           Relex Software Corporation         \$0         \$0         \$41,917         \$41,91           Resco Products, Inc.         \$0         \$0         \$46,874         \$30,00           Rexmet Corporation         \$0         \$0         \$547         \$23           RJ Lee Group, Inc.         \$0         \$0         \$1,108         \$1,10					
Relex Software Corporation         \$0         \$0         \$41,917         \$41,91           Resco Products, Inc.         \$0         \$0         \$46,874         \$30,00           Rexmet Corporation         \$0         \$0         \$547         \$23           RJ Lee Group, Inc.         \$0         \$0         \$1,108         \$1,10					
Resco Products, Inc.         \$0         \$0         \$46,874         \$30,00           Rexmet Corporation         \$0         \$0         \$547         \$23           RJ Lee Group, Inc.         \$0         \$0         \$1,108         \$1,10	,				
Rexmet Corporation         \$0         \$0         \$547         \$23           RJ Lee Group, Inc.         \$0         \$1,108         \$1,10					
<b>RJ Lee Group, Inc.</b> \$0 \$1,108 \$1,10	,				
Kodinson Fans, Inc. \$0 \$3,453 \$3,45					
	Kobinson Fans, Inc.	\$0	\$0	\$3,453	\$3,453

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			2008 & 2009	2008 & 2009
	2010 Credit	2010 Credit	Credit	Credit
Taxpayer Name	Awarded	Utilized 1	Awarded	Utilized 1
Robinson Industries, Inc.	\$0	\$0	\$17,970	\$17,970
Rohm and Haas Chemicals, LLC	\$0	\$0	\$1,855,030	\$403,511
Ross Technology Corporation	\$0	\$0	\$9,238	
Rossman Audio, LLC	\$0	\$0	\$413	\$0
RSI Silicon Products, LLC	\$0	\$0	\$47,372	\$3,777
Rubbercraft Corporation of California	\$0	\$0 \$0	\$1,119	\$1,119
RVL Packaging, Inc.	\$0	\$0 \$0	\$834	\$0
S W Race Cars Components, Inc.	\$0	\$0 \$0	\$68,888	\$55,916
SAC Computer Solutions Inc.	\$0	\$0 \$0	\$1,729	\$1,729
Salvage Direct, Inc.	\$0	\$0 \$0	\$5,897	\$5,897
Sanofi Aventis US, Inc.	\$0	\$0 \$0	\$2,342,192	\$526,499
	\$0	\$0		
Sartomer Company, Inc.	\$0	\$0 \$0	\$9,104 \$2,970	\$9,104
Sealed Air Corporation (US)	\$0	\$0 \$0		
Sechan Electronics, Inc.			\$6,035	\$6,035
Secowarwick Corporation	\$0	\$0	\$22,017	\$658
Seegrid Corporation	\$0	\$0 \$0	\$107,254	\$107,254
SEI Global Service, Inc.	\$0	\$0	\$548,213	\$223,195
Siemens Medical Solutions USA, Inc.	\$0	\$0	\$441,484	\$441,484
Signal Technologies, Inc.	\$0	\$0	\$12,146	\$12,146
SKC, Inc.	\$0	\$0	\$4,047	\$4,047
Smart Structures, Inc.	\$0	\$0	\$6,902	\$0
SMGT, Inc.	\$0	\$0	\$3,182	\$2,632
Solarity, Inc.	\$0	\$0	\$15,560	\$15,560
Solid Cactus, Inc.	\$0	\$0	\$46,965	\$46,965
Solo Laboratories, Inc.	\$0	\$0	\$30,700	\$30,053
Sonitu Pharmaceuticals, LLC	\$0	\$0	\$2,382	\$2,382
Spang & Company	\$0	\$0	\$6,256	\$4,096
Specialty Chemical Systems, Inc.	\$0	\$0	\$554	\$554
Specialty Tires of America, Inc.	\$0	\$0	\$2,574	\$2,574
SPX Corporation	\$0	\$0	\$38,547	\$38,547
SR Holdings LLC ( dba SDR Holdings LLC)	\$0	\$0	\$13,056	\$13,056
Straight Arrow Products, Inc.	\$0	\$0	\$15,084	\$14,075
Strobic Air Corporation	\$0	\$0	\$701	\$701
Strohl Systems Group, Inc.	\$0	\$0	\$18,748	\$2,403
Supreme Mid-Atlantic Corporation	\$0	\$0	\$2,052	\$1,748
Surelogic, Inc.	\$0	\$0	\$5,822	\$0
Sweet Ovations Holding Co.	\$0			
Syandus, Inc.	\$0			\$23,328
Synchronoss Technologies, Inc.	\$0			\$10,617
Synthes North America, Inc.	\$0	\$0	\$167,426	\$90,887
Synthes USA HQ, Inc.	\$0	\$0	\$397,789	\$397,789
Syth, Inc.	\$0	\$0	\$251,139	\$136,330
Tacoda, Inc.	\$0	\$0	\$55,993	\$16,419
Target Precision, LLC	\$0	\$0	\$7,947	\$1,585
Techtrol Cyclonetics, Inc.	\$0	\$0	\$7,850	\$7,850
Teikoku USA, Inc.	\$0	\$0	\$6,098	
Teleflex Incorporated	\$0			\$65,787
Teletronics Technology Corporation	\$0	\$0	\$22,319	
The Clemens Family Corporation	\$0	\$0	\$49,274	\$15,207
The Creative Touch, Inc.	\$0			\$0
The Drucker Company, Inc.	\$0			\$21,671
The Proctor & Gamble Paper Prod Company	\$0	\$0 \$0	\$196,534	\$196,534
The Valspar Corporation	\$0			\$22,781
The WW Henry Company LP	\$0	\$0 \$0		\$0
Theraquest Biosciences, Inc.	\$0	\$0 \$0	\$20,558	
Thermomegatech, Inc.	\$0			
Timbar Corporation	\$0			
TIW Technology, Inc.	\$0			
TITE TECHNOLOGY, INC.	Φ0	ΦU	φ∠,099	φυ

Town Marie	2010 Credit Awarded	2010 Credit Utilized <sup>1</sup>	2008 & 2009 Credit	2008 & 2009 Credit Utilized <sup>1</sup>
Taxpayer Name			Awarded	
Tool-All, Inc.	\$0	\$0	\$8,153	
Trinity Manufacturing Company	\$0	\$0	\$1,432	
Try Tek Machine Works Incorporated	\$0	\$0	\$2,814	
TVM Building Products, Inc.	\$0	\$0	\$1,962	\$0
Tyco Electronics Corporation	\$0	\$0	\$149,337	
Unicast Company	\$0	\$0	\$36,558	
USSC, LLC	\$0	\$0	\$13,676	
Verefi Technologies, Inc.	\$0	\$0	\$12,654	
Verizon Corporate Services Group, Inc.	\$0	\$0	\$10,746	
Video Display Corporation	\$0	\$0	\$10,006	
Videomining Corporation	\$0	\$0	\$32,638	
Viriome, Inc.	\$0	\$0	\$3,787	
Vivisimo, Inc.	\$0	\$0	\$34,904	\$76
Vocollect Healthcare Systems	\$0	\$0	\$256,809	\$256,809
Vocollect Inc.	\$0	\$0	\$174,581	
VPI Acquisition Corp.	\$0	\$0	\$11,086	\$8,470
Walsh Construction Company	\$0	\$0	\$6,530	
Weiler Corporation	\$0	\$0	\$12,610	\$8,595
Wolf Technologies, LLC	\$0	\$0	\$4,952	\$4,952
Woodings Industrial	\$0	\$0	\$9,982	\$0
World Wide Plastics, Inc.	\$0	\$0	\$16,965	\$16,965
Worldgate Service, Inc.	\$0	\$0	\$40,414	
WSG Solutions, Inc.	\$0	\$0	\$1,065	\$695
WW Patterson Company	\$0	\$0	\$3,750	\$3,750
Wyeth	\$0	\$0	\$956,979	\$956,979
Xylos Corporation	\$0	\$0	\$34,291	\$1,418
Yuasa Battery, Inc.	\$0	\$0	\$18,352	\$18,352
TOTAL	\$18,000,000	\$0	\$60,000,000	\$36,637,671

#### Footnote:

<sup>&</sup>lt;sup>1</sup> "Utilized" means that the tax credit has been applied in full or partial payment of a tax liability according to the records of the Department. If no tax liability exists for the tax and period where the credit has been applied or if previous tax credits exceed the tax liability, the utilized amount is shown as zero. Until a tax year has been closed, it is possible that the tax credits indicated as being utilized may still be transferred, sold or assigned at the option of the taxpayer. Pass through credits and unused credits that were sold or assigned are also included as utilized.