



# Passenger Rail & Transit Rail Manufacturing in the U.S.

**BLUEGREEN**<sup>®</sup>  
A L L I A N C E

**ENVIRONMENTAL LAW  
& POLICY CENTER**

# About the Authors

---

**Authors:** John Paul Jewell, ELPC Research Coordinator  
Zoe Lipman, BGA Senior Policy Advisor

**Contributors:** Kevin Brubaker, ELPC Deputy Director  
Karen Torrent, ELPC Federal Legislative Director  
Dana Parker, BGA National Program Manager  
Roxanne Johnson, BGA Research Analyst  
Katie Coleman, ELPC Digital Advocacy Specialist  
Jesse Buchsbaum, ELPC Intern  
Dylan Peters, ELPC Intern



Today, the BlueGreen Alliance unites 15 of our country's largest unions and environmental organizations. Acting together, through nearly 16 million members and supporters, we are a powerful voice for building a cleaner, fairer and more competitive American economy.

The BlueGreen Alliance advocates the growth in the number and quality of jobs in the clean economy by expanding a broad range of industries, including renewable energy, energy efficiency, the substitution of safer, cleaner chemicals, modern transportation systems and advanced vehicle technology, domestic manufacturing, high-speed Internet and a smart, efficient electrical grid, green schools and other public buildings, improving our nation's water infrastructure, recycling, and sustainable agriculture.

Our staff design public policies, perform research, and run advocacy and public education campaigns in support of our mission.



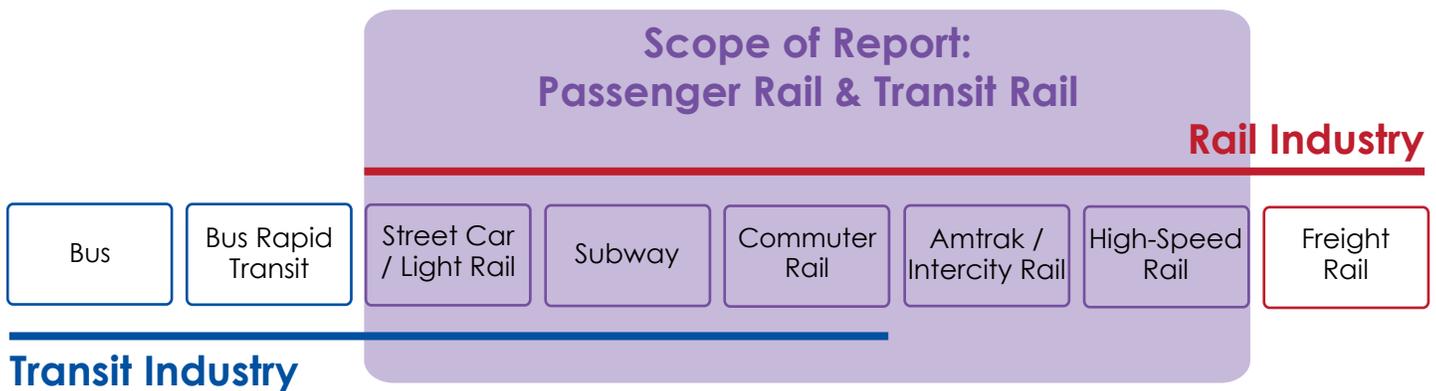
**ENVIRONMENTAL LAW & POLICY CENTER**

The Environmental Law & Policy Center is the Midwest's leading public interest environmental legal advocacy and eco-business innovation organization. We develop and lead successful strategic advocacy campaigns to improve environmental quality and protect our natural resources. We are public interest environmental entrepreneurs who engage in creative business dealmaking with diverse interests to put into practice our belief that environmental progress and economic development can be achieved together.

ELPC's vision embraces both smart, persuasive advocacy and sustainable development principles to win the most important environmental cases and create positive solutions to protect the environment. ELPC's teamwork approach uses legal, economic and public policy analysis, and communications advocacy tools to produce successes. ELPC's strategic advocacy and business dealmaking involves proposing solutions when we oppose threats to the Midwest environment. We say "yes" to better solutions; we don't just say "no."

# Table of Contents

Executive Summary .....2  
Introduction .....4  
National Impact .....6  
U.S. Passenger Rail & Transit Rail Manufacturing: Ready for Resurgence .....8  
America's Passenger Rail & Transit Rail Manufacturing Footprint: Our Findings..... 10  
Don't Leave Jobs Sitting at the Station ..... 14  
U.S. Passenger Rail & Transit Rail Supply Chain: Company Listings & Maps ..... 18  
Citations .....41



# Executive Summary

---

Passenger rail and transit rail systems provide a critical foundation for a competitive economy and generate jobs and economic growth. Multiple studies have documented the benefits of passenger rail and transit rail to the public, local and national economies, and the environment. In this study, the BlueGreen Alliance (BGA) and the Environmental Law & Policy Center (ELPC) find that federal investment in transportation infrastructure also provides another core benefit: the opportunity to strengthen the passenger rail and transit rail manufacturing sector and the jobs it supports across America.

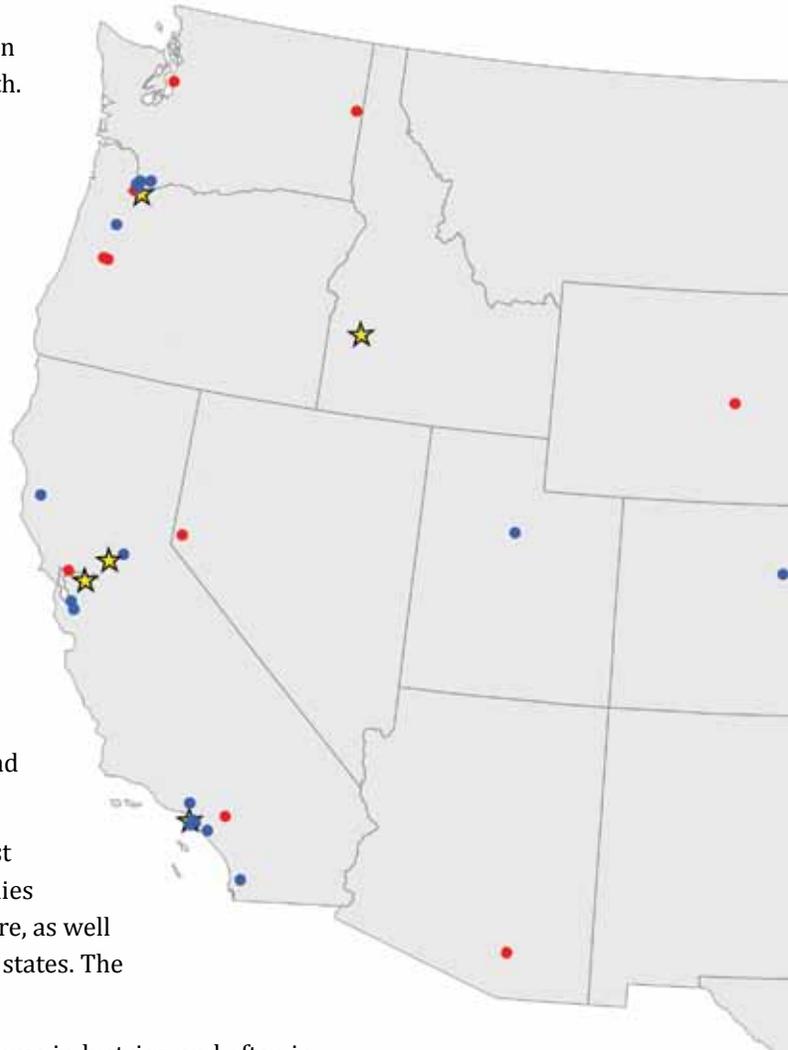
BGA and ELPC explore the industry's national manufacturing footprint and find that U.S. passenger rail and transit rail manufacturing are integral to the domestic economy and poised for growth. To capture the full economic growth and job creation potential, however, there must be predictable, long-term and sustainable policy and investment in the U.S.

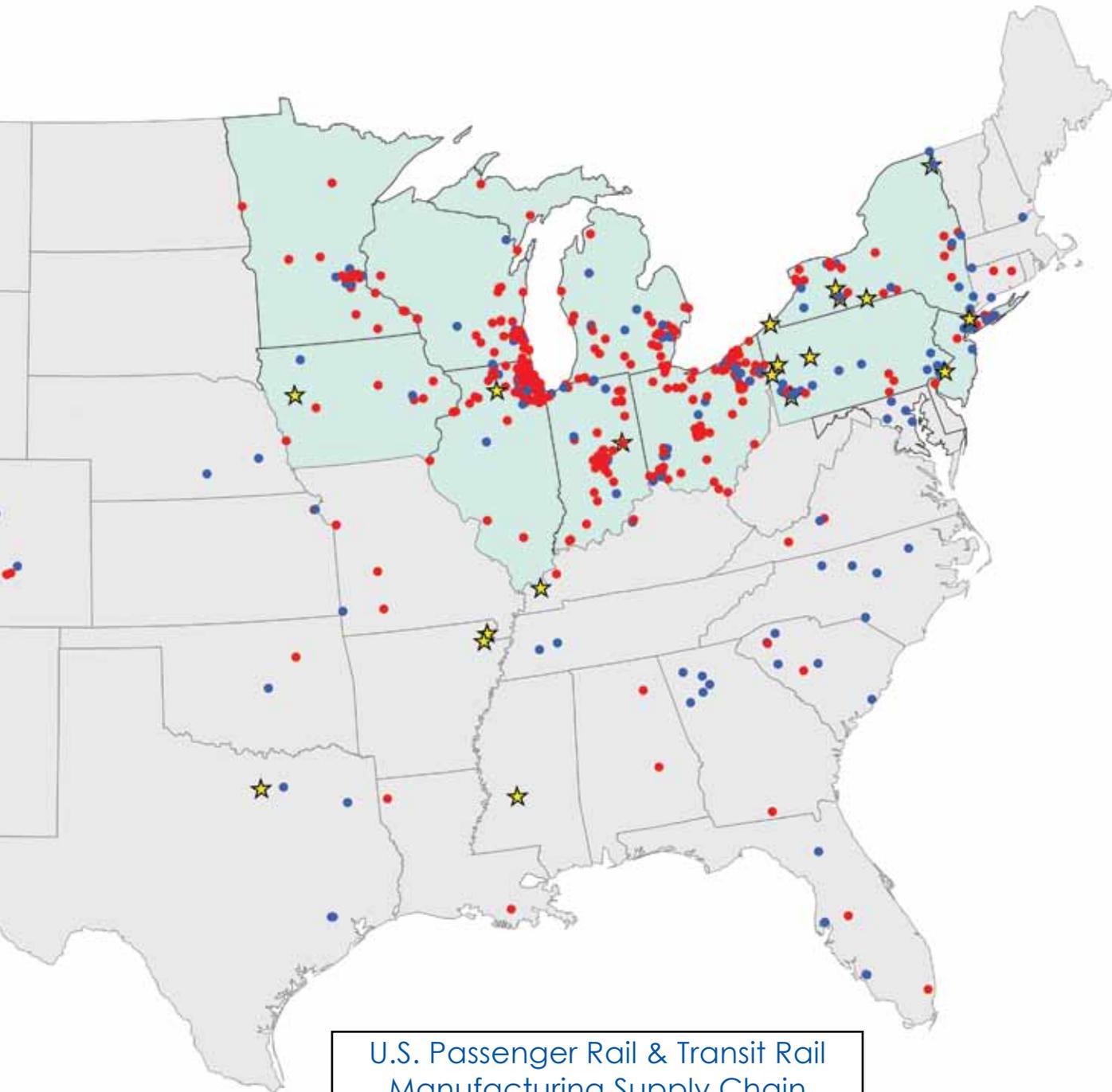
## **More than 750 companies in at least 39 states manufacture components for passenger rail and transit rail today:**

- 212 companies in 32 states manufacture passenger rail cars and locomotives or major components and systems for these vehicles.
- Focusing on just two rail manufacturing regions — the Midwest and the Mid-Atlantic — we find more than 540 *additional* companies manufacturing sub-components, materials, track and infrastructure, as well as providing repair and re-manufacturing to the industry in these states. The nationwide total is certainly much larger.
- These manufacturers are located in virtually every state, in diverse industries, and often in communities far from the transit and rail systems themselves.
- The U.S. rail manufacturing industry as a whole supports 90,000 jobs today.
- Passenger rail and transit rail manufacturing growth helps strengthen a broader manufacturing recovery — creating and sustaining manufacturing jobs in railcar and locomotive assembly, as well as across a wide range of American industry, ranging from steel smelting to fabric design.

Long-term sustainable funding is vital to make the next generation of transportation infrastructure — and the manufacturing growth it supports — a reality. Transportation infrastructure supports the entire economy, so funding can appropriately come from multiple sources, including increasing the gas tax, additional general fund appropriations, and other measures. In addition, the U.S. can maximize the economic benefits of every transportation dollar spent by adopting sound financing, procurement, and manufacturing assistance policies and programs

America has a rail manufacturing supply chain that reaches throughout the country, with a growing demand for new passenger rail and transit rail systems and communities and businesses ready to share in investment. Bold federal action to fund transportation can unlock powerful potential for economic and manufacturing growth.





**U.S. Passenger Rail & Transit Rail  
Manufacturing Supply Chain**

- ★ Railcar & Locomotive Assemblers**  
 These companies, also known as Original Equipment Manufacturers, manufacture and assemble passenger rail and transit rail cars and locomotives.
- Major Suppliers**  
 These companies manufacture major rail propulsion, electronics and body components and systems.
- Sub-Components & Materials**  
 These companies manufacture subcomponents, materials, and infrastructure (such as track and signaling) and repair and remanufacture railcars and equipment.

# Introduction

Passenger rail and transit rail provide infrastructure are important to the effective functioning of our economy and are also major generators of jobs and economic growth. Numerous studies document direct benefits of transit and intercity passenger rail on business growth, property values, access to economic opportunity, and the environment. In addition, meeting America's passenger rail and transit rail needs provides a major opportunity to grow American manufacturing and jobs — in communities both near and far from the transit and rail systems themselves.

## A POWERFUL ECONOMIC DRIVER

Passenger rail and transit rail are both powerful economic drivers in the transportation sector. In addition to employing over 400,000 people operating bus and transit rail and 20,000 people providing intercity passenger rail service, these modes also generate significant economic growth by increasing property values and boosting business sales and local tax revenues, while reducing congestion, pollution, and other costs.

According to the American Public Transportation Association, investing \$10 million in transportation yields \$30 million in increased business sales; residential property located near public transportation was valued 42 percent higher on average;<sup>1</sup> and, economic activity generated by spending \$1 billion on transportation yields \$432 million



in federal, state, and local tax revenues.<sup>2</sup>

U.S. ridership is at all time highs with American consumers, businesses, and communities supporting transit and passenger rail with their feet. From 1995 to 2008, ridership on commuter and passenger rail grew by 75 percent. Amtrak has broken ridership records in 11 of the last 12 years, with 31.6 million passengers taking intercity rail trips in 2014, despite limited service and aging equipment. Demand for public transportation is expected to continue increasing as more Americans move away from car ownership, and the U.S. population grows, adding 100 million people by 2050.

Over the past 30 years, 29 new light rail systems and 20 commuter rail systems have been built.<sup>6</sup> Currently, 32 states and the District of Columbia are forging ahead with transportation plans

to develop and improve their transit systems and higher-performance intercity passenger rail corridors. All of these transportation projects will require new rail cars and locomotive equipment to be manufactured. In fact, these projects have generated more than \$10 billion in orders for subway, commuter, and high-speed passenger rail cars and locomotive equipment orders. A sample of these passenger rail and transit rail projects and their related procurements are listed on the next page.

## GROWING DEMAND FOR PASSENGER RAIL & TRANSIT EQUIPMENT



**California:** California, which has a population of 38 million, recently broke ground on the country's first high-speed rail project that will run at 200 mph from Los Angeles to San Francisco. California is in the process of buying 95 train sets capable of 220 mph speeds<sup>7</sup> and ten global manufacturers have expressed interest in bidding on this project. The City of Los Angeles is expanding the Los Angeles Metro Rail making it the longest system in the country. In Northern California, the Bay Area Rapid Transit system is set to purchase 1,000 new rail cars at an estimated cost of \$3.3 billion.



**Florida:** In 2016, All Aboard Florida will begin running 32 trains a day between Miami-Fort Lauderdale and Orlando and is expected to generate \$6 billion over 8 years to Florida's economy and create 10,000 jobs.



**Maryland:** In Maryland, the \$2.4 billion Purple Line, a proposed light rail line between Bethesda and New Carrollton, and the \$2.6 billion Red Line light rail, which would connect Woodlawn and Bayview, are ready to commence construction this year. Both lines will connect to existing MARC Train and local bus services.



**Midwest:** The Midwest Regional Rail Initiative is a program among nine states (Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio and Wisconsin) that will run 110 mph rail service along 3,000 miles of track connecting Chicago to every major Midwestern city. The Detroit-Chicago-St. Louis rail corridor is near completion. New passenger cars for these lines are being built by Nippon Sharyo in Rochelle, IL, while locomotives to pull them are being built by Siemens in Sacramento, CA.

On the transit side, the Chicago Transit Authority is seeking to purchase 400 new transit cars, with a potential to expand the order to 846 cars. The order is expected to be worth about \$2 billion.<sup>8</sup> Metra, Chicago's commuter rail agency, has announced plans to purchase 52 locomotives and refurbish 85, and to purchase 367 new train cars and refurbish 455.<sup>9</sup>



**Northeast:** The Northeast Corridor (NEC) Infrastructure Master Plan, a collaboration of 12 Northeastern states and the District of Columbia, Amtrak, eight commuter and three freight railroads, has proposed plans to operate 220 mph passenger rail service and improve reliability and capacity for all rail users. Amtrak will purchase 28 next generation trains to replace its aging Acela Express fleet on the existing NEC.

The Keystone Corridor, running 105 miles from Harrisburg to Philadelphia to New York City, transported 1.4 million passengers by intercity passenger rail and commuter rail in 2013.

Amtrak's Vermonter returned to the Connecticut River Valley after a 20 year absence, commencing service on the "Knowledge Corridor" running from New Haven, CT, to St. Albans, VT.

The nation's largest transit system, the New York MTA, approved a fully state-funded \$15 billion capital plan in October 2014 and is preparing to purchase 752 new subway cars in 2015.<sup>10</sup>



**Pacific Northwest:** In the Pacific Northwest Corridor, Washington and Oregon recently bought two trainsets and next generation locomotives in an effort to improve intercity travel between Portland, Seattle, and Vancouver, BC.



**Southeast:** In the Southeast, home to the fastest growing metropolitan areas in the nation, the District of Columbia, Virginia, and North Carolina are investing in improving current service quality and reliability on six intercity passenger rail corridors and developing the Southeast High-Speed Rail corridor connecting the NEC to Washington, D.C. and Raleigh, NC, via Richmond, VA.



**Texas:** Texas is conducting a Texas-Oklahoma Passenger Rail Study of an 850 mile corridor from Oklahoma City to Dallas/Fort Worth to San Antonio to address significant traffic congestion in the region.

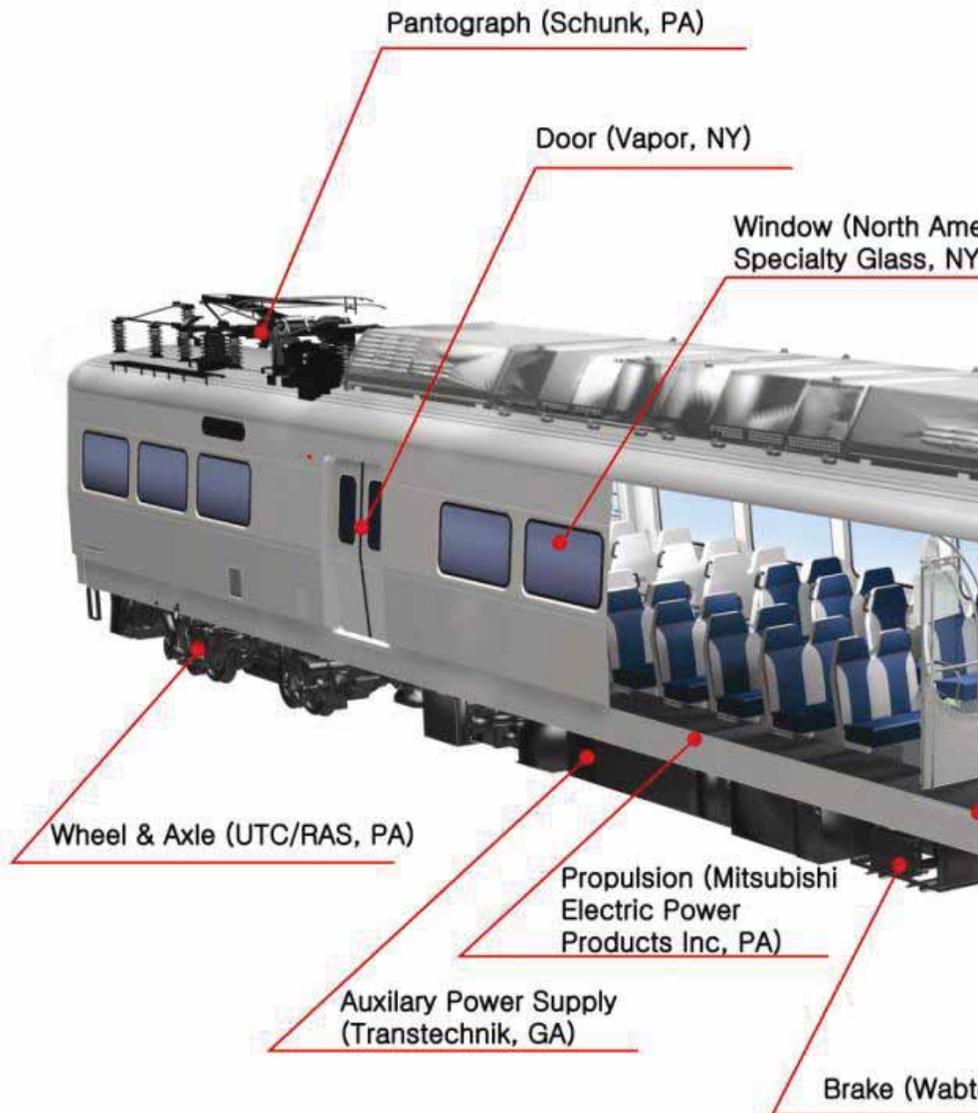
# National Impact

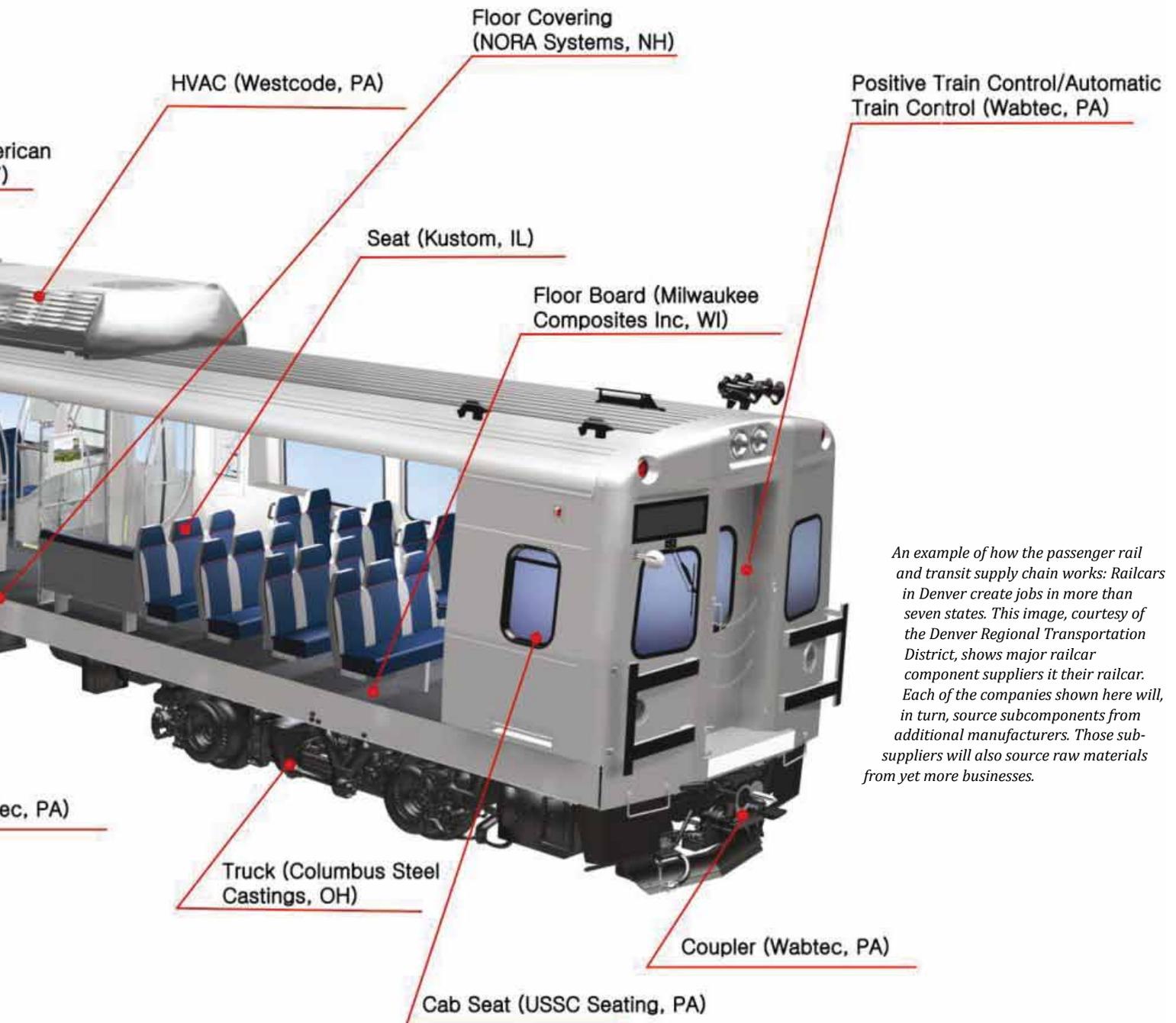
---

Meeting America's transit and rail needs provides a major opportunity to grow American manufacturing and jobs — in the communities both local to and far from the transit and rail systems themselves.

Whether a commuter steps off a brand new Silver Line in Tysons Corner, VA, or remanufactured Red Line subway train in Washington D.C., or RTD commuter train in Denver (shown to the right), those vehicles and their components build jobs all over the country. Similarly, when passengers in the Midwest step into one of the new Amtrak trains in the Midwest (funded under the American Recovery and Reinvestment Act of 2009) or Metra commuter rail, those railcars support rail car assembly jobs in Rochelle, IL; locomotive assembly jobs in Sacramento, CA; motor manufacturing in Seymour, IN; and other diverse jobs in various states.

Overall, transit and rail investment is a powerful economic driver. These gains, however, are at risk. Unstable and insufficient funding threatens the ability of communities to maintain and operate existing systems and to plan for new investments or upgrades, even as ridership grows. Under cost pressures, some communities resort to short-term cost-cutting on operations and maintenance that can result in higher long-term costs, job loss and degradation of service. In addition, the U.S. has not implemented the policies and approaches necessary to take advantage of the full manufacturing opportunity. Increased stable and predictable transit and rail investment can grow all the economic benefits this sector generates.





*An example of how the passenger rail and transit supply chain works: Railcars in Denver create jobs in more than seven states. This image, courtesy of the Denver Regional Transportation District, shows major railcar component suppliers of their railcar. Each of the companies shown here will, in turn, source subcomponents from additional manufacturers. Those sub-suppliers will also source raw materials from yet more businesses.*

# U.S. Passenger Rail & Transit Rail Manufacturing: Ready for Resurgence

---

Photo courtesy of Brookville Equipment.



## HISTORY

The U.S. was once a passenger rail manufacturing powerhouse, but many of its iconic firms faded in the mid-20th century with the rise of highway use. While passenger rail and transit rail demand has increased in recent decades, the boom and bust cycle of investment has limited the growth of a new generation of passenger rail manufacturing in the U.S. An unstable and unpredictable investment environment at home makes it difficult for companies to make the longer term investments in R&D, retooling, and development of complex supplier networks necessary to manufacture and integrate state-of-the-art railcars and subsystems for the domestic market or to leverage those networks to serve the global market. Conversely, countries across Europe and Asia have demonstrated that it is possible to build or rebuild large, globally competitive rail manufacturing companies and supplier networks using diverse policy approaches and a base of robust long-term domestic investment.

Despite being plagued by perennially uncertain policy and investment, rail manufacturing — of both passenger and freight vehicles — supports 90,000 jobs in the U.S. today,<sup>11</sup> and the value of U.S. railway exports is already between \$2 billion and \$3 billion each year.<sup>12</sup> However, as both domestic and international experience shows, investing in transit and rail transportation at home primes the robust engine of manufacturing, job and export growth.

## CURRENT RAIL SUPPLY CHAIN

Worldwide, passenger railcar and locomotive assembly is carried out by a relatively small number of major manufacturers predominantly headquartered near major European and Asian passenger rail markets. These companies carry out assembly in facilities across the U.S. (domestic assembly is required under long-standing *Buy America* policies), but tend to do railcar design, integration, and manufacture of railcar shells in their home markets.<sup>13</sup> Feeding into railcar assembly, numerous primary suppliers manufacture a wide range of components and systems in three major categories: propulsion components, electronic systems, and the body and interior. In turn, sub-suppliers provide component manufacturers with parts and other inputs, such as steel, plastics, glass, and other materials.

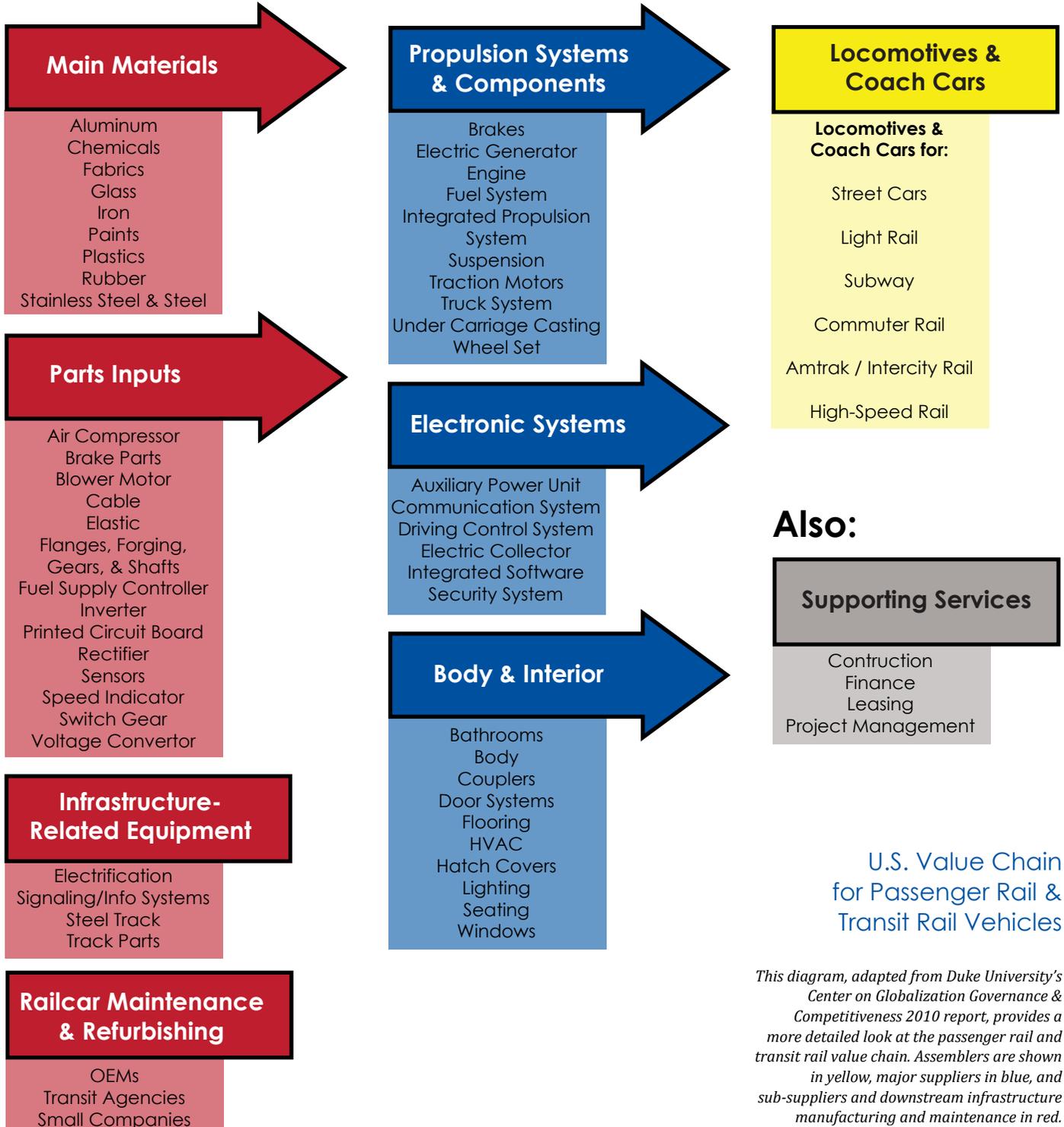
Outside of the direct supply chain are manufacturers of infrastructure-related equipment, such as station, track, and signaling information systems. Additionally, other companies downstream perform maintenance, refurbishing, and remanufacturing of railcars and their components.

Meeting America's transit and rail needs provides a major opportunity to grow American manufacturing and jobs across every part of the rail supply chain. In the following pages, our report dives into the broad reach of the transit and rail manufacturing supply chain in the U.S. and explores

**Sub-Components & Materials**

**Major Suppliers**

**Railcar & Locomotive Assemblers**



**U.S. Value Chain for Passenger Rail & Transit Rail Vehicles**

*This diagram, adapted from Duke University's Center on Globalization Governance & Competitiveness 2010 report, provides a more detailed look at the passenger rail and transit rail value chain. Assemblers are shown in yellow, major suppliers in blue, and sub-suppliers and downstream infrastructure manufacturing and maintenance in red.*

# America's Passenger Rail & Transit Rail Manufacturing Footprint: Our Findings



Looking across passenger and transit railcar and locomotive assembly and major component and component system manufacturers, our research found 212 facilities in 32 states manufacturing significant rail components. When we looked at subcomponent, materials, infrastructure, and repair and remanufacturing facilities in two major rail manufacturing regions — the Midwest and the Mid-Atlantic — we found more than 500 additional manufacturers supporting the rail industry, for a total of over 700 manufacturing facilities overall. With a deeper analysis nationwide, one would expect to find numerous additional subcomponent and downstream manufacturers supporting rail component manufacturing and rail maintenance, particularly in California and the Southeast.

## TIP OF THE ICEBERG

More than 200 facilities manufacture locomotives, railcars and major components for the passenger rail and transit rail

industry today. The map above highlights in yellow the 24 major locomotive, railcar, and streetcar assembly facilities. In blue are 188 direct suppliers that currently manufacture major propulsion, electronics, and body components and systems for these assemblers and others. These companies range from major multinational railcar assemblers to small- and medium-sized manufacturing companies. Predictable long-term funding is critical to the health of these companies' operations in the U.S. and to maintaining and expanding this important manufacturing base.

## MANUFACTURER SNAPSHOT

Below we profile several of the passenger rail and transit rail assemblers and major component manufacturing companies we identified in the U.S., illustrating the breadth of these firms. A full listing and maps of all companies begins on page 23.

Photo courtesy of Alstom.



**ALSTOM — HORNELL, NY AND OTHER LOCATIONS:**

Alstom Transport is the largest global supplier of high-performance and high-speed rail vehicles and operates in 60 countries. Alstom is also heavily involved in the metro, light rail, signaling, and freight sectors. In the U.S., Alstom has more than 10,000 employees in 45 states across its energy and transportation operations. The company operates the largest passenger rolling stock manufacturing facility in North America in Hornell, NY, where employment can reach over 1,500 with strong demand for passenger rail vehicles. Alstom has provided equipment for over 25 percent of America’s active subway cars and has 7,000 rail vehicles in use throughout North America, including a nearly \$1 billion order for the New York City Metropolitan Transit Authority.

Photo courtesy of Kustom Seating Unlimited.



It also provides propulsion technology, signaling equipment, and maintenance services for Amtrak’s high-speed Acela line.

**KUSTOM SEATING UNLIMITED — BELLWOOD, IL:** Kustom Seating is a leader in designing and manufacturing custom transit seating and other rail interior parts. They supply to numerous rail OEMs, including Siemens, Alstom, Kawasaki Rail Car, Bombardier, and Nippon Sharyo. Kustom Seating is currently building seats for new “L” rail cars in Chicago and for high-speed rail cars in the Midwest. They employ over 200 people at their 94,000-square-foot Bellwood manufacturing facility and have recently acquired another 50,000-square-foot facility nearby.

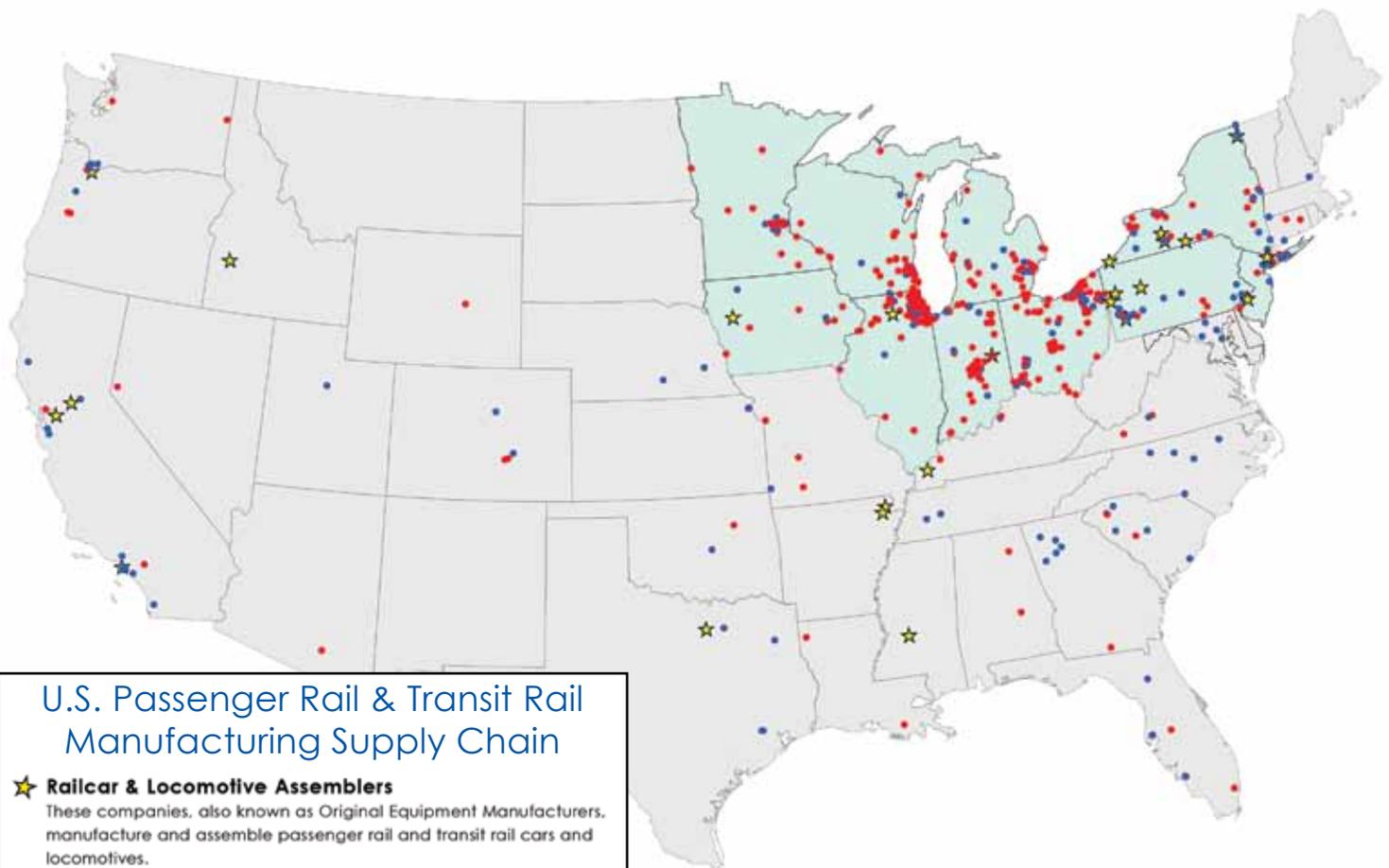
**ORX — TIPTON, PA:** Founded by the son of an Italian immigrant who inspected 30,000 miles of railroad on foot, ORX is a family-owned company that manufactures and overhauls precision machined rail wheel sets, “trucks,” axles and gear units. Amtrak’s Acela runs on trucks and wheel sets from ORX, and the company also supplies subway systems in San Francisco, Atlanta, and New York, as well as the



Photo courtesy of Siemens.

freight industry. The company’s more than 30 employees are represented by United Steelworkers (USW).

**SIEMENS MOTOR PLANT — NORWOOD, OH:** In 2013, Siemens’ Norwood Motor Plant, located outside Cincinnati, added 25 positions to design and manufacture new motors for Amtrak’s locomotive order. To fulfill the order, Siemens added 250 jobs at facilities in Norwood, OH; Sacramento, CA; and Alpharetta, GA. Amtrak’s new locomotive project was funded through a Railroad Rehabilitation and Improvement Financing loan. Electric motors have been built at this factory in the community for 100 years, with many of the employees being the second or third generation in their family to work



## U.S. Passenger Rail & Transit Rail Manufacturing Supply Chain

- ★ **Railcar & Locomotive Assemblers**  
These companies, also known as Original Equipment Manufacturers, manufacture and assemble passenger rail and transit rail cars and locomotives.
- **Major Suppliers**  
These companies manufacture major rail propulsion, electronics and body components and systems.
- **Sub-Components & Materials**  
These companies manufacture subcomponents, materials, and infrastructure (such as track and signaling) and repair and remanufacture railcars and equipment.

there. Above: U.S. Department of Transportation Secretary Anthony Foxx with Wayne Cupp of IUE-CWA Local 765.

## DIVING DEEPER

After identifying the 24 assembly facilities and 188 major suppliers nationwide, we looked more closely in just two regions — the Midwest and the New York/New Jersey/Pennsylvania area — and identified an additional 542 sub-component manufacturers, materials suppliers, and related companies serving the rail industry. These companies are shown in red in the map above. A more detailed look in other regions would certainly generate many additional sub-component facilities. In total, in this study, we found 754 transit and passenger rail and components manufacturers nationwide.

Diverse materials (steel, aluminum, fabric, glass, etc.), manufacturers of subcomponents, infrastructure (such as rail and signaling), and the many facilities where rail equipment and components are repaired and remanufactured together create an integrated rail supply chain, poised for growth and opportunity. While our regional research reinforces national findings — that clusters of rail manufacturing exist around major transit systems (such as Chicago and New York) — clusters also exist in major manufacturing and freight rail hubs.

## SUB-COMPONENT MANUFACTURER SNAPSHOT

**TIMKEN — CANTON, OH:** Timken and Timken Steel employ



Timken bearings are shown in a rail wheelset manufactured by Penn Machine of Aston, PA.

several thousand people in Stark County, OH. With dozens of plants and engineering facilities worldwide and billions in gross sales, the companies are global leaders in the production of steel, bearings, gearboxes, and metal chains. In addition to their railroad bearing line, Timken also supplies industrial seals and lubrication products to OEMs.

**JP CORP — BEECH GROVE, IN:** This third generation, woman-owned, and family-operated business provides custom manufacturing services for various rail OEM components. In the 1970's, the company relocated to be near Amtrak's repair and maintenance facility. Contract manufacturing of custom bolts and assemblies for Amtrak was a critical element in their growth. Their production uses cutting-edge CNC tuning and robotic inspection equipment to ensure precision and quality and has the capacity to process nearly any metal or carbon material into custom industrial components. In 2000, JP Corp expanded its Indiana facility by

nearly 70 percent to accommodate a growing list of diverse clients. The International Association of Sheet Metal, Air, Rail and Transportation Workers (SMART) represents workers at Amtrak Beech Grove, which remains Amtrak's national repair and remanufacturing facility.

**CLEVELAND TRACK MATERIAL, INC. — CLEVELAND, OH:** At Cleveland Track, workers designed and manufactured new turnouts for Maine's Downeaster project. Cleveland Track was one of 53 companies across 20 states that received a supply order from Maine's project. The orders for turnouts as well as other orders from Amtrak and several transit agencies kept the production schedule busy during the economic downturn and prevented layoffs. Over the last year, the company has invested over \$5 million in new production equipment at the plant. Cleveland Track has nearly 300 employees that work in the company's four facilities in Ohio, Tennessee, and Pennsylvania. The company was started

# Don't Leave Jobs Sitting at the Station

---

Photo courtesy of GE Transportation.



There is no question that America has the capacity to build the next generation of advanced transit and rail equipment to compete in the 21st century global marketplace. The U.S. has a resurgent and competitive transportation manufacturing sector, a world class freight transportation and ports network, and is a leader in technical innovation. It also has extensive unmet transportation infrastructure needs.

Rising demand for public transit and intercity passenger rail and the new transportation projects that are needed to meet that demand is spurring economic growth and creating jobs. However, to fully maximize the potential this opportunity presents for job creation and economic growth in the U.S., Congress must lead by providing a sustainable, predictable, long-term funding source.

History has shown that public investment is vital for building and maintaining transportation and infrastructure, whether in the form of the original land grants and bonds issued by the government in the 1800s to finance the building of President Lincoln's Transcontinental Railroad or the creation of the Highway Trust Fund tax in the 1950s to build and

maintain President Eisenhower's Interstate Highway System. Throughout our nation's history, a commitment from federal, state, and local leaders to provide large-scale public investment was essential in building and maintaining our transportation infrastructure.

Unfortunately, history also demonstrates the impacts of failing to provide long-term predictable federal investment for transportation and infrastructure — everything from the loss of jobs, economic activity, and tax revenue, to manufacturing moving abroad.

State and local transit agencies, manufacturers, and their investors all require predictable, robust markets in order to plan and build world-class transportation projects and rail cars and equipment. Large-scale infrastructure projects require years to effectively plan and execute, and states and municipalities cannot begin these projects unless they can be confident that there will be a way to pay for the project. Similarly, manufacturers are far more willing to make the necessary investments in R&D, plant capacity, and worker training in the U.S. if there are predictable markets for their goods.

---

## LONG-TERM, SUSTAINABLE, AND PREDICTABLE FEDERAL FUNDING IS ESSENTIAL

Currently, federal transit funding comes from a predictable, yet underfunded source, while passenger rail funding relies on sporadic general fund appropriations. Neither approach is ideal, and both passenger rail and transit rail should have long-term, sustainable, and predictable federal funding.

Federal transit funding comes from the Highway Trust Fund, which levies a tax on gasoline at the retail level. While states also raise funds for transportation infrastructure, in most cases, federal funding still provides the lion's share of total funds for these projects. Since 1993, the tax on a gallon of gasoline has been 18.4 cents, with approximately 15 cents allocated to road construction and maintenance and the remaining 3 cents to fund all forms of mass transit.

As has been widely documented and discussed, federal funds dedicated to infrastructure, especially the Highway Trust Fund, have been insufficient to cover spending in recent years. Trust Fund revenues have dropped due to a perfect storm of failure to increase the gas tax with inflation, increased automotive fuel efficiency, and decreasing private vehicle use,<sup>14</sup> while the cost of maintaining aging infrastructure and building modern roads, bridges, and transit infrastructure has risen. Because current law prohibits the Trust Fund from running at a deficit, Congress has instituted a variety of stopgap fixes to cover the funding shortfall that has reached about \$53 billion since 2008. Uncertainty over whether stopgap measures will be approved, or approved at sufficient funding levels from year to year, has led to ongoing uncertainty in the marketplace.

Congress has acknowledged the funding deficit and the need to address it. Indeed, as the House Committee on Transportation and Infrastructure stated in its report on Public Private Partnerships, "Adequate federal investment in transportation and infrastructure is a necessary precondition to modernize our Nation's highways, bridges, rail, and transit systems, airports, ports, waterways, and public buildings..."<sup>15</sup> Moreover, there is no shortage of ideas or policy suggestions in the House, Senate, or among stakeholders and think tanks to increase federal revenues for transportation and

## INNOVATIVE FEDERAL FUNDING PROGRAMS

**TIGER:** The Transportation Investment Generating Economic Recovery (TIGER) grant program is a competitive grant program which allows the U.S. DOT to target investments across modes and regions to where they will have the most impact. Created in 2009, it has funded more than \$4.1 billion in projects, including almost \$1 billion for transit and \$800 million for rail. In December 2014, Congress appropriated an additional \$500 million to this extremely popular program. Every year the demand for these grants far exceeds the available funding.

**TIFIA:** The Transportation Infrastructure Finance and Innovation Act (TIFIA) provides federal loans, loan guarantees, and lines of credit to assist in the financing of surface transportation projects. While TIFIA offers the opportunity to leverage federal investments ten-fold, it is fundamentally a loan rather than a grant. Projects with demonstrable revenue streams (such as transit fares) can benefit from the lower interest rates available to the federal government than to communities or transit districts. The \$306 million Colorado High Performance Transportation Enterprise, for example, used TIFIA to finance transit improvements. This project, slated to open in 2015, involved adding high-occupancy toll lanes, bus rapid transit, and bikeways along a 10-mile stretch of U.S. 36 between Denver and Boulder. TIFIA provided a \$54 million loan for the project, secured by a pledge of toll revenues collected on the road.

infrastructure spending. These ideas include: increasing existing taxes and fees; establishing new user fees and taxes to replace or supplement the current user fee system; designating other sources of revenue; and providing additional financing options for states in the form of various bonds. Transportation infrastructure is a critical foundation for the economy, serving households, workers, commerce and industry regardless of whether they own or drive a vehicle. Accordingly, a variety of sources of funding may be

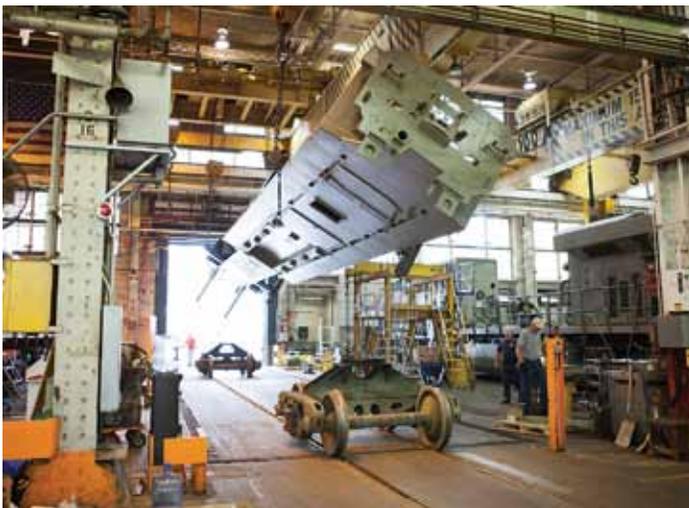
Photo courtesy of Alstom.



Photo courtesy of Brookville Equipment.



Photo courtesy of GE Transportation.



appropriate. Whatever options Congress ultimately adopts, passenger rail and transit rail should receive dedicated and sustainable funding at levels that meet current needs and allow for effective expansion of these modes.

## GETTING THE MOST FROM U.S. TRANSPORTATION INVESTMENTS

In addition to ensuring a dedicated source of funding for passenger rail and transit rail, state and federal leaders should also support policies and the approaches that maximize the economic, job creation, and manufacturing benefits infrastructure investments provide.

**Help states leverage funds.** Innovative funding programs such as the TIGER grant program and financing programs such as the TIFIA program that provide lower cost loans and loan guarantees (see previous page) have been highly successful in helping states focus and leverage federal and state transportation spending to deliver more and higher-impact projects. These programs should be continued and expanded. Flexibility and coordination are also important in enabling states to focus funds on areas of greatest need. Under the Surface Transportation Program of the current surface transportation law, MAP-21, states have the flexibility to spend federal funding on either eligible highway or transit projects. Mechanisms that enable states to carry out projects across all transportation modes, including intercity passenger rail, could also be valuable. Coordination between states, cities, and suburbs, through the Metropolitan Planning Organizations (MPOs) can also be critical to get the most out of transportation dollars. Note, however, that the effectiveness of all these approaches depends on the consistent availability of federal funds.

**Improve procurement policies and practices to enhance economic benefits.** At a federal, state, and municipal level, transit agencies and local leaders are considering how to maximize job and economic growth from major project investments.

Working to improve implementation of long-standing *Buy America* provisions is key to achieving these gains. Harkening back to the 1800's, when Congress mandated that only U.S. steel could be used to build the Transcontinental Railroad,

---

*Buy America* provisions have required that taxpayer-funded transportation infrastructure projects include significant domestically manufactured content. These standards are critical to retaining rail assembly and component manufacturing in the U.S. Today, opportunity exists to improve implementation of these standards so they are more consistent, straightforward, and effective in growing a robust and competitive domestic supply chain for cutting-edge rail components and equipment.

In addition, while *Buy America* provisions set a statutory minimum for domestic content, new approaches reward and facilitate efforts that grow domestic manufacturing, boost jobs and enhance other economic benefits from transit investments. For example, Amtrak and several transit agencies have recently adopted new procurement language that gives major assemblers credit in their bids for demonstrating enhanced domestic content, job quality, and training in their own and their suppliers' operations. By rewarding bids that exceed minimum federal requirements, they create additional opportunities for investment, innovation, and job growth. At the same time, the Department of Commerce's Manufacturing Extension Partnership is working with the Federal Railroad Administration and coordinating with dozens of state partnerships and local manufacturing and economic development organizations to systematically identify and develop potential rail component suppliers and engage them in the domestic manufacturing supply chain for passenger rail equipment.

## CONCLUSION

Transit and rail manufacturing opportunities exist in virtually every U.S. state and across the manufacturing value chain, but Congress must act to provide long-term dedicated funding of passenger rail and transit rail projects. With long-term predictable federal funding of passenger rail and transit rail transportation and infrastructure projects, the U.S. stands to greatly enhance these manufacturing opportunities that generate economic development, tax revenue, and American jobs across the nation.



Photo courtesy of Siemens.

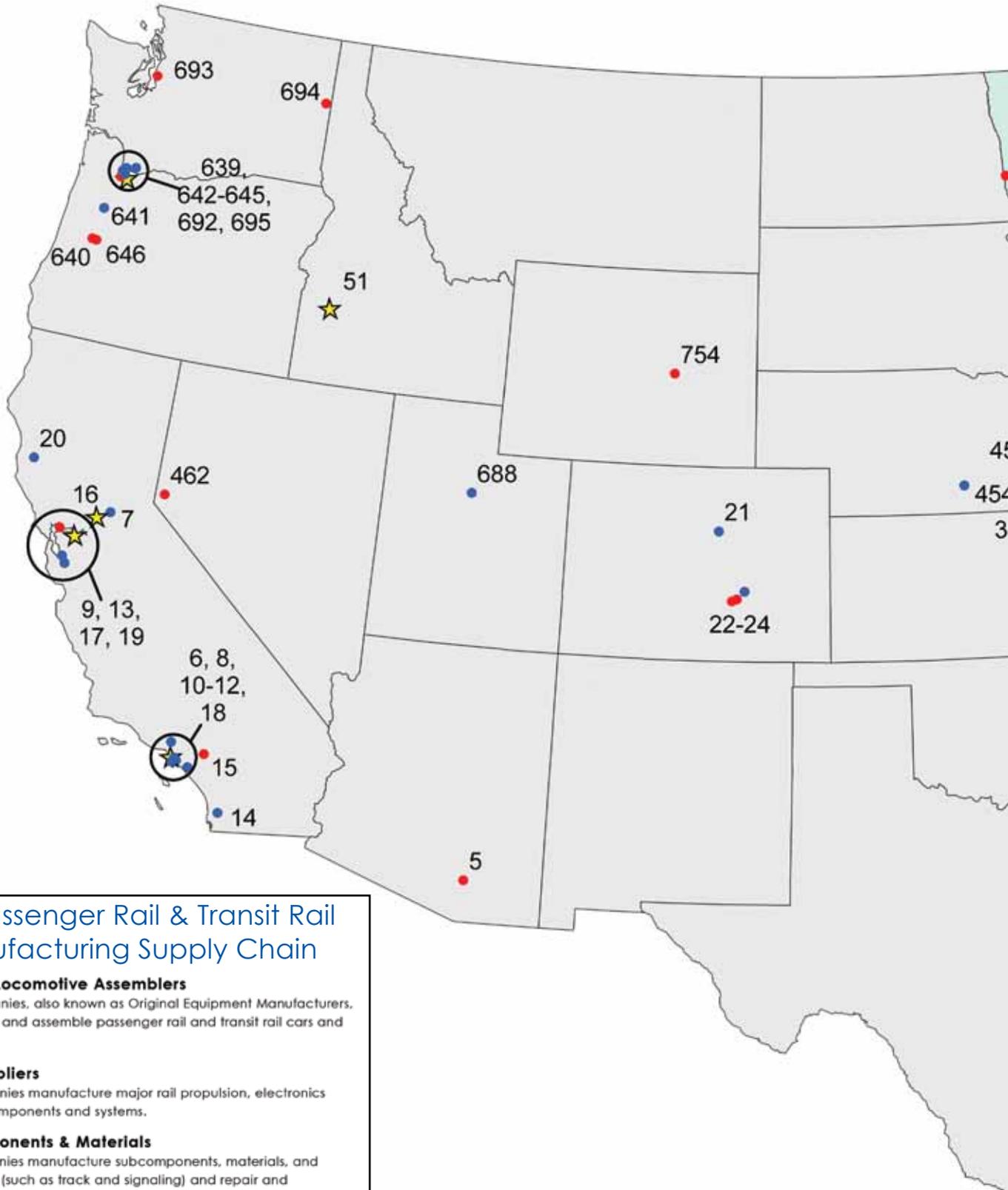


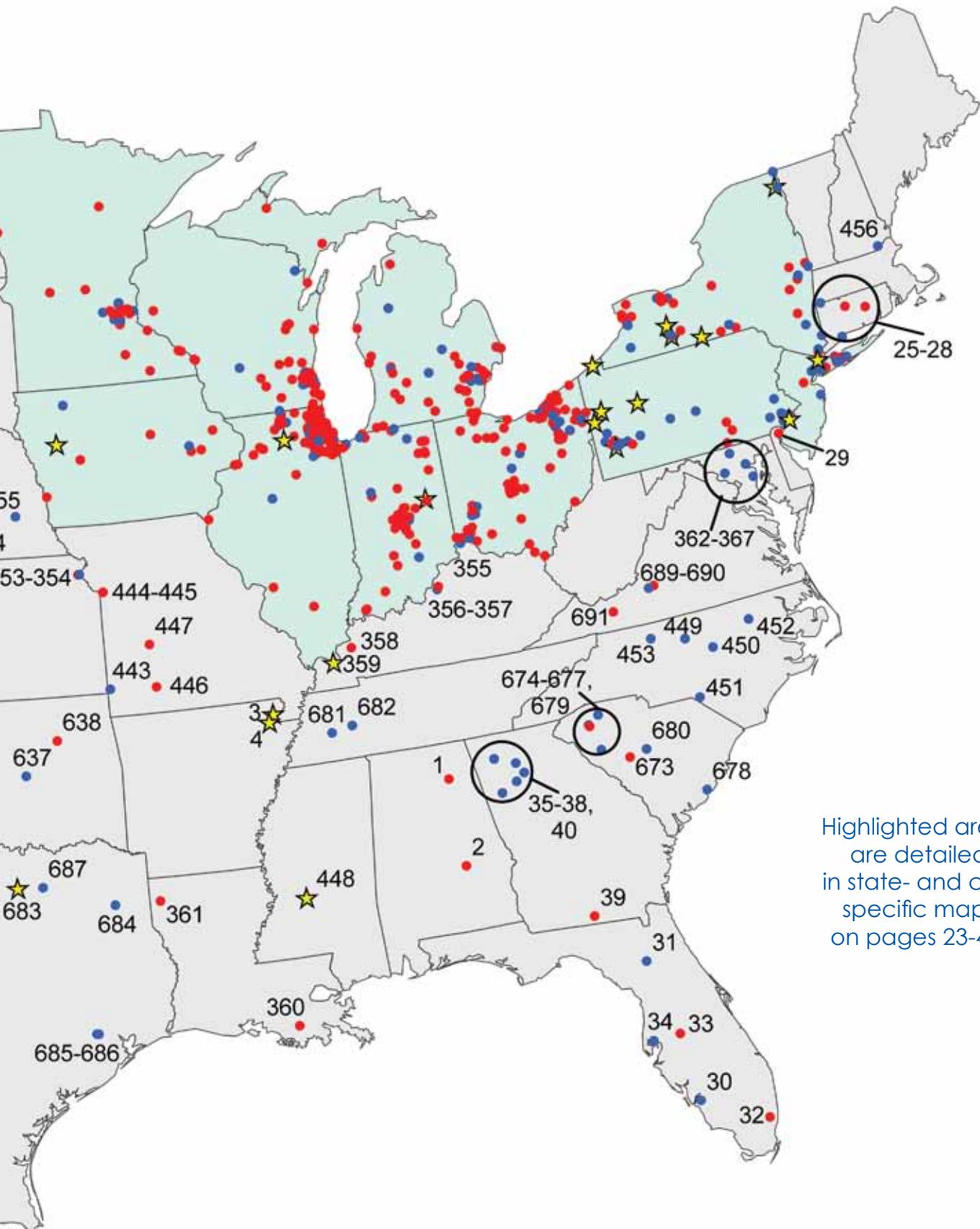
Photo courtesy of U.S. Railcar.



Photo courtesy of GE Transportation.

# U.S. Passenger Rail & Transit Rail Supply Chain: Company Listings & Maps





Highlighted areas are detailed in state- and city-specific maps on pages 23-41.

---

## RAILCAR & LOCOMOTIVE ASSEMBLERS

### **Alstom USA Inc.** Hornell, NY

Alstom Transport is the largest global supplier of high and very high-speed rail vehicles and operates in 60 countries. Alstom is also heavily involved in the metro, light rail, signaling and freight sectors. In the U.S., Alstom has more than 10,000 employees in 45 states across its energy and transportation operations. The company operates the largest passenger rolling stock manufacturing facility in North America in Hornell, NY, where employment can reach over 1,500 with strong demand for passenger rail vehicles. Alstom has provided equipment for over 25 percent of America's active subway cars and has 7,000 rail vehicles in use throughout North America, including a nearly \$1 billion order for the New York City Metropolitan Transit Authority. It also provides propulsion technology, signaling equipment and maintenance services for Amtrak's Acela high-speed line.

### **American Railcar Industries** Marmaduke, AR Paragould, AR

American Railcar Industries, Inc. was formed in 1994 when a joint venture between Axis, LLC and Ohio Castings Company, LLC acquired the railcar component manufacturing and railcar maintenance assets of ACF Industries (formerly American Car and Foundry). Today, ARI is a publicly held corporation that supplies the North American freight car market, designs and manufactures new railcars and railcar parts, and operates a network of railcar repair centers.

### **Ansaldo Breda, Inc.** Dansville, NY Pittsburg, CA

Ansaldo Breda was formed in 2001 through the merger of two Italian manufacturing firms, Ansaldo Transporti and Breda Costruzioni. The company employs about 2,400 people worldwide and has been involved in light rail projects in Boston, Cleveland, Los Angeles, and San Francisco. Ansaldo Breda has also manufactured heavy rail cars for transit systems in Atlanta, Los Angeles, and Washington, D.C.

### **Bombardier Transportation** Pittsburgh, PA Plattsburgh, NY

Bombardier Transportation supplied the Acela Express passenger cars currently in use along the North East Corridor. Bombardier designs, manufactures and services complete trains, rail sub-systems and signaling equipment for high-speed trains, transit, and urban light rail. The company employs about 2,900 U.S. workers across 15 states, has manufacturing sites in Plattsburgh, NY, and Pittsburgh, PA, and operates a network of fleet operations, maintenance, and service sites in 12 states. Globally, Bombardier Transportation is present in 27 countries with 38,500 employees.

### **Brookville Equipment** Brookville, PA

Founded in 1918, Brookville is an American manufacturer that designs and builds passenger and freight locomotives. The company employs around 300 workers in the United States, and does business in 40 countries across the globe. Currently, Brookville is working on a locomotive order for the South Florida Regional Transportation Authority Tri-Rail line.

### **CAF USA** Elmira, NY

CAF USA, a subsidiary of Spanish firm Construcciones y Auxiliar de Ferrocarriles, was tapped to fulfill a recent 130-car, \$300 million procurement for Amtrak. The company's 400,000 square foot manufacturing facility in Elmira, NY currently employs around 800 workers, and is the production hub for both the Amtrak order as well as a recent 39-car contract with the Houston Metropolitan Transit Authority. CAF USA was named the preferred vendor for the forthcoming Cincinnati streetcar. CAF is involved in rail projects on six continents, with recent contracts in Latvia, Saudi Arabia, and the United Kingdom.

---

**Electro-Motive  
Diesel / Progress  
Rail Services**  
Muncie, IN

Founded in 1922, Electro-Motive Diesel (EMD) has supplied more than 63,000 locomotives in over 75 countries across the globe, and has the largest installed base in North America. With offices in LaGrange, IL, EMD designs, manufactures, and sells diesel-electric locomotives and engines for all commercial railroad applications. In 2010, EMD was acquired by Progress Rail Services Corporation, a wholly owned subsidiary of Caterpillar, Inc., and opened a new locomotive manufacturing facility in Muncie, IN. In addition to the company's work in the rail sector, EMD is also a global provider of diesel engines for marine propulsion, offshore and land-based oil well drilling rigs and stationary power generation.

**GE Transportation**  
Grove City, PA  
Erie, PA  
Fort Worth, TX

More than 20,000 GE-built diesel-electric locomotives are in operation worldwide, including more than 250 with Amtrak. While the majority of GE Transport rail resources are focused on original locomotive construction, the company also has communication equipment and rail management software product lines. Recently, in an effort to reduce their locomotives' emissions, the company has been working on a hybrid diesel-electric power system for increased fuel efficiency. GE Transportation has a grasp on around 60% of the U.S. rolling stock market, and is currently working on a 60 locomotive order for Union Pacific. Globally, GE Transportation employs more than 12,000 workers, and recorded \$5.9 billion in revenue in 2013.

**Gomaco Trolley**  
Ida Grove, IA

Gomaco Trolley Company, located in Ida Grove, IA, manufactures and repairs vintage trolley cars. Founded in 1982, Gomaco's trolleys are currently in service in 12 states, including Portland, OR, Los Angeles, Little Rock, Memphis, and Tampa, and it is currently building a trolley for a park in Taiwan.

**Hyundai  
Rotem Co.**  
Philadelphia, PA

Founded in 1999 as Korean Rolling Stock Corporation and later renamed Hyundai Rotem in 2007, this South Korean company supplies high speed and conventional passenger trains, stations, and other transit equipment around the world. Hyundai Rotem supplies the SEPTA Regional Rail system with its Silverliner V commuter trains in the Philadelphia area, which were built in South Korea and assembled in Philadelphia.

**Kasgro Rail**  
New Castle, PA

Kasgro Rail was founded in 1993 in New Castle, PA. Kasgro manufactures freight rail cars and cabooses, while also supplying vintage streetcars and passenger rail.

**Kawasaki  
Rail Car**  
Yonkers, NY

Kawasaki Railcar, Inc., a subsidiary of the Japanese Kawasaki Heavy Industries Rolling Stock Company, has two assembly plants in the U.S., in Lincoln, NE and Yonkers, NY. Kawasaki has supplied several transit systems with railcars in the U.S., including Metro North, the NYC subway, Long Island Rail Road, and SEPTA in Philadelphia.

**Kinkisharyo  
International**  
El Segundo, CA

Kinkisharyo, headquartered in Osaka, Japan, is a global leader in light rail manufacturing. With its U.S. operations headquartered in El Segundo, CA, Kinkisharyo is currently manufacturing 175 railcars for the Los Angeles Metro at a facility in Palmdale, CA.

**Motive Power**  
Boise, ID

At its 300,000-square-foot manufacturing facility, Motive Power has produced over 2,500 locomotives for the U.S. passenger and freight rail markets. The company employs 700 workers across the U.S. and is owned by the American industrial conglomerate Wabtec Corp., formed in 1999 through a merger between Motive Power and Westinghouse Air and Break. Among Motive Power's recent projects was a 40-locomotive order for the Massachusetts Bay Transportation Authority.

---

**National Railway  
Equipment  
Paducah, KY**

National Railway Equipment (NRE) employs 200 workers at its locomotive manufacturing and refurbishing facility in Paducah, KY. The facility, formerly owned by VMV Paducahbilt, opened in 1927 and became part of NRE in 2002.

**Nippon  
Sharyo USA  
Rochelle, IL**

As the North American arm of its Japanese parent company, Nippon Sharyo USA has delivered more than 960 rail cars since its founding in 1982. In 2012, the company expanded with the opening of a new plant in Rochelle, IL, which was tasked with an inaugural order of 160 passenger railcars for the Chicago region's Metra rail line, a project that created just under 500 jobs in Illinois. Recently, the firm was awarded a contract to build 130 bi-level passenger rail cars for the Midwest and California. Nippon Sharyo's Japanese parent company has delivered more than 3,400 railcars for Japan's high-speed rail sector.

**Siemens  
Industry, Inc.  
Richland, MS  
Sacramento, CA**

Siemens Rail Systems has been a major provider of light rail and rapid transit vehicles in the United States since 1975 and has recently expanded into streetcar and locomotive production. The division employs more than 750 people at its California plant, which uses on-site solar energy for nearly 80% of its electricity needs. Siemens was recently awarded a contract to manufacture 32 new diesel-electric locomotives for five states: Illinois, California, Michigan, Washington, and Missouri, and is also in the midst of a 60-light rail vehicle order for Calgary Transit. Globally, the company employs around 362,000 workers, including 52,000 in the U.S.

**Talgo  
Seattle, WA**

Talgo America has supplied train sets for multiple intercity passenger rail projects in the U.S. since its inception in 1994. The company operates a facility in Seattle, where in addition to supplying fully integrated production services, Talgo also provides comprehensive maintenance support for its operating rail cars. Talgo USA is a subsidiary of its Spanish company that produces high-speed, super high-speed, and intercity passenger trains. Recently, Talgo completed a \$44 million order for the Oregon Department of Transportation, providing two fully integrated 13-car trainsets for the state's Amtrak Cascades rail service. These were built at its Milwaukee, WI manufacturing facility, which announced its closure in 2014.

**United Streetcar  
Clackamas, OR**

United Streetcar, founded in 2007, is the first U.S.-based modern streetcar manufacturer. A wholly owned subsidiary of Oregon Iron Works—a fabrication and manufacturing company in operation since 1944—United Streetcar builds the car shells and much of the undercarriage in its facilities in Clackamas, Oregon. The company unveiled its first U.S.-made streetcar, for Portland, Oregon, in July 2009. It has since fulfilled additional orders from Portland, Tucson, Arizona, and Washington, D.C.

Listed below are the 754 businesses that we identified in the U.S. passenger rail and transit rail supply chain. Please note the following: (1) States with detailed maps and shaded listings are those where we researched all the way down to the sub-component and material supply chain, while other state listings reflect only assemblers and major suppliers — a more detailed look at other regions would certainly generate many additional companies; (2) Assemblers are shown in **bold**; and (3) Companies are listed by state and then alphabetically by city.

## ALABAMA

- 1.....Progress Rail Services..... Albertville..... AL  
 2.....Kershaw ..... Montgomery..... AL

## ARKANSAS

- 3..... American Railcar Industries..... Marmaduke..... AR**  
**4..... American Railcar Industries..... Paragould ..... AR**

## ARIZONA

- 5.....LB Foster ..... Tucson..... AZ

## CALIFORNIA

- 6.....Evac Train..... Carson ..... CA  
 7.....Paragon Products..... El Dorado Hills.. CA  
**8..... Kinkisharyo International ..... El Segundo ..... CA**  
 9.....Kontron AG ..... Fremont..... CA  
 10.....Zodiac Galleys USA..... Garden Grove ... CA  
 11.....Inca Gold Products LLC ..... Gardena ..... CA  
 12.....Wabtec Passenger Transit ..... Panorama City .. CA  
**13 ... AnsaldoBreda, Inc..... Pittsburg ..... CA**  
 14.....Kontron AG ..... Poway ..... CA  
 15.....Invensys Rail ..... Rancho Cucamonga CA  
**16 ... Siemens Industry, Inc. .... Sacramento ..... CA**  
 17.....Cisco ..... San Jose..... CA  
 18.....Ledtronics ..... Torrance ..... CA  
 19.....Alstom USA, Inc. .... Vallejo..... CA  
 20.....Microphor ..... Willits ..... CA

## COLORADO

- 21 .....Lat-Lon ..... Denver..... CO  
 22 ....Transportation Technology Center.. Pueblo ..... CO  
 23 .....EVRAZ North America ..... Pueblo ..... CO  
 24 .....LB Foster ..... Pueblo ..... CO

## CONNECTICUT

- 25 .....James L Howard & Co..... Bloomfield..... CT  
 26 .....RTR Technologies, Inc. .... Canaan ..... CT  
 27 ....Trans-Lite..... Milford ..... CT  
 28 .....Nathan Airchime ..... South WindhamCT

## DELAWARE

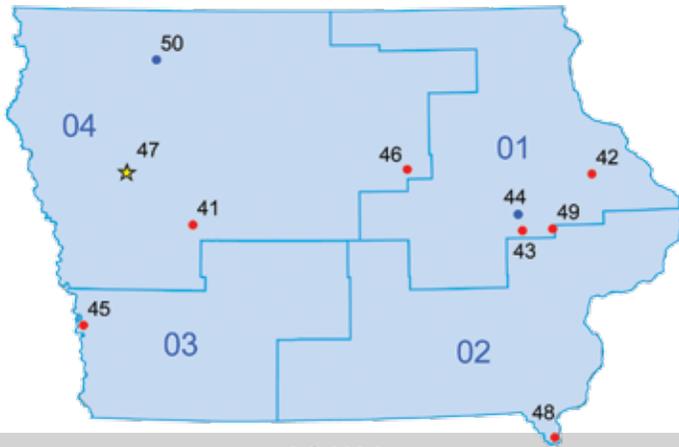
- 29 .....Alstom USA, Inc. .... New Castle..... DE

## FLORIDA

- 30 .....Saminco, Inc. .... Fort Myers..... FL  
 31 .....Optym ..... Gainesville..... FL  
 32 .....Eastern Rail Corp..... Hialeah..... FL  
 33 .....Flanders Electric ..... Lakeland..... FL  
 34 .....VECOM-USA..... Tampa..... FL

## GEORGIA

- 35 .....Siemens Industry, Inc..... Alpharetta ..... GA  
 36 .....KB PowerTech ..... Ball Ground ..... GA  
 37 .....Mohawk Industries, Inc..... Calhoun..... GA  
 38 .....U.S. Train Products, LLC ..... Marietta..... GA  
 39 .....Saft America, Inc. .... Valdosta..... GA  
 40 .....GMT International Corporation..... Villa Rica ..... GA



## IOWA

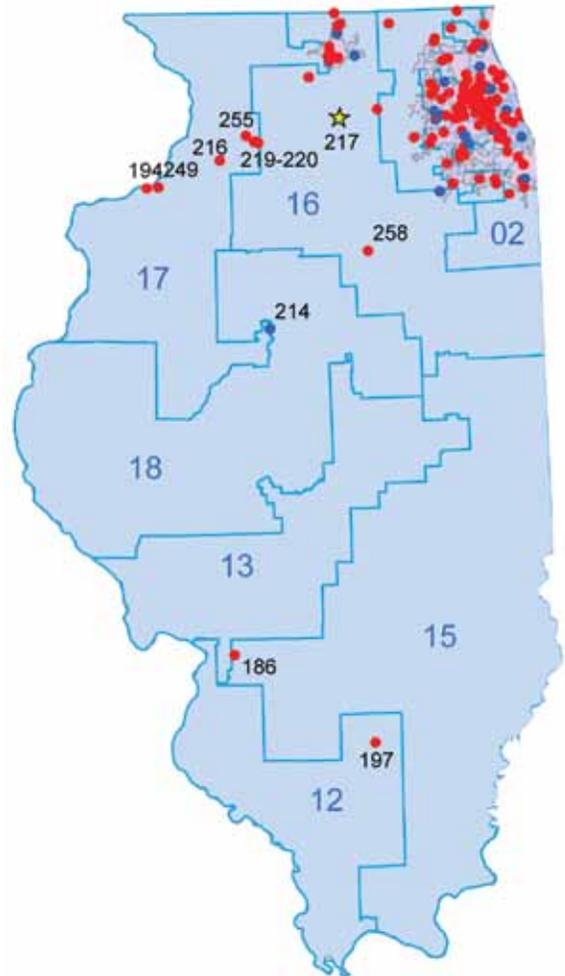
- 41 ..... TFI CableFLX..... Carroll ..... IA
- 42 ..... Rail-Way..... Cascade..... IA
- 43 ..... Master Packing & Rubber Company Cedar Rapids ..... IA
- 44 ..... Wabtec Railway Electronics ..... Cedar Rapids ..... IA
- 45 ..... Red Giant Oil Companies ..... Council Bluffs ..... IA
- 46 ..... Environmental Lubricants Mfg..... Grundy Center .. IA
- 47 ... Gomaco Trolley..... Ida Grove..... IA**
- 48 ..... Keokuk Steel Castings..... Keokuk..... IA
- 49 ..... HiRAIL Corporation..... Lisbon..... IA
- 50 ..... Eaton Corporation ..... Spencer ..... IA

## IDAHO

- 51 ... Motive Power..... Boise ..... ID**

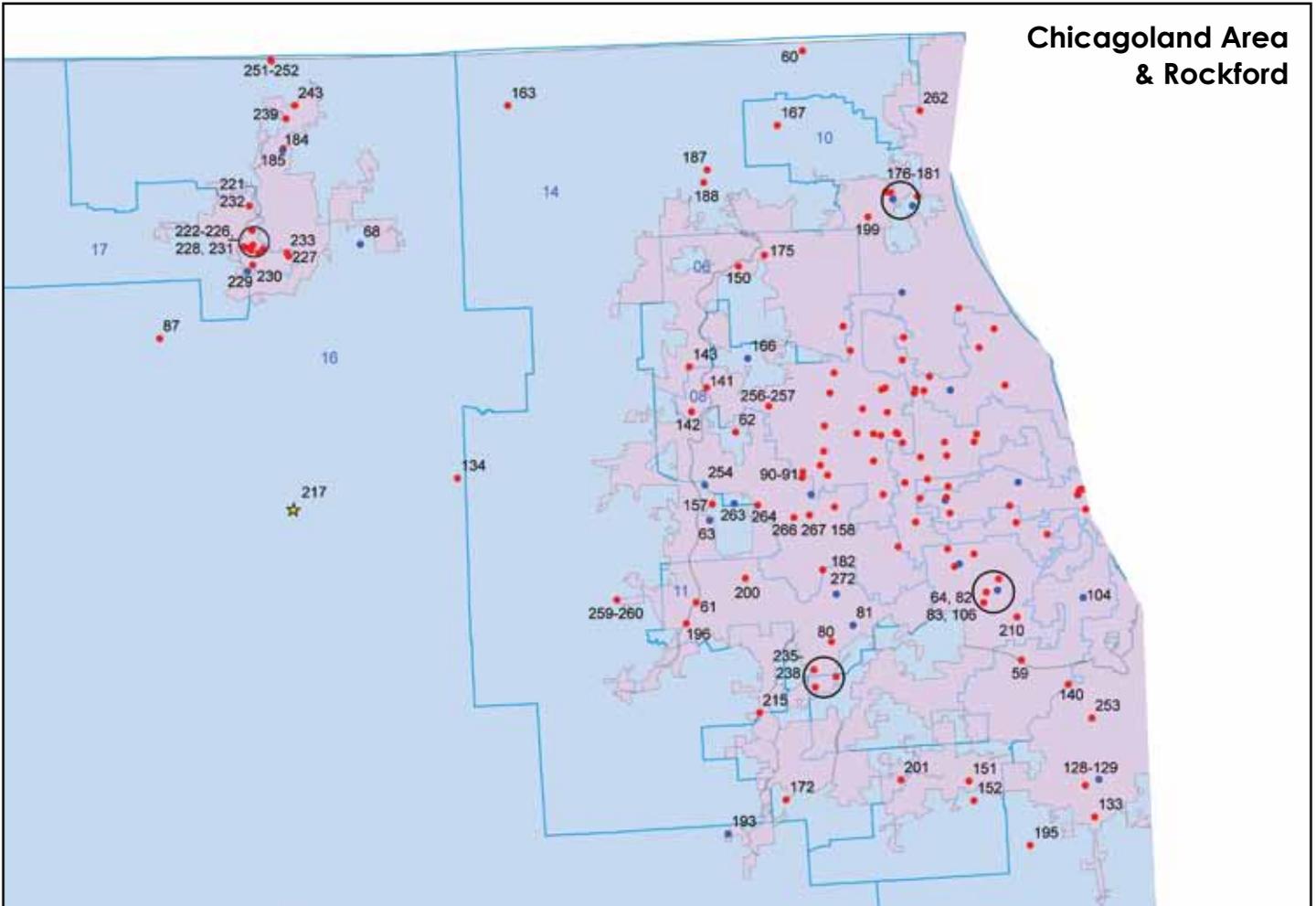
## ILLINOIS

- 53 ..... Addison Abrasives & Machinery ..... Addison..... IL
- 54 ..... Custom Rubber Molders, Inc. .... Addison..... IL
- 55 ..... Foremost Fastener..... Addison..... IL
- 56 ..... Iten Industries..... Addison..... IL
- 57 ..... Plastisol Products, Inc..... Addison..... IL
- 58 ..... Precision Metal Products, Inc..... Addison..... IL
- 52 ..... Tru-Tone Finishing, Inc..... Addison..... IL
- 59 ..... K & E..... Alsip ..... IL
- 60 ..... Prestige Metal Products, Inc. .... Anitoch..... IL
- 61 ..... Weldstar Company..... Aurora ..... IL



- 62 .....Auto Truck Group ..... Bartlett..... IL
- 63 .....PPG Protective & Marine Ctgs Rail DivBatavia ..... IL
- 64 .....R & W Machine..... Bedford Park ..... IL
- 65 .....Kustom Seating Unlimited, Inc..... Bellwood ..... IL
- 66 .....Shamrock Specialty Labels ..... Bellwood ..... IL
- 67 .....Fastenal Ind & Construction Supply Bellwood, ..... IL
- 68 .....Corrugated Metals..... Belvidere..... IL
- 69 .....Alloy Weld Inspection Co..... Bensenville..... IL
- 70 .....Beanstitch, Inc..... Bensenville..... IL
- 71 .....Industry-Railway Suppliers, Inc..... Bensenville..... IL
- 72 .....Ireco LLC..... Bensenville..... IL
- 73 .....L-V Industries Inc. .... Bensenville..... IL
- 74 .....Phoenix Finishing, Inc..... Bensenville..... IL

## Chicagoland Area & Rockford



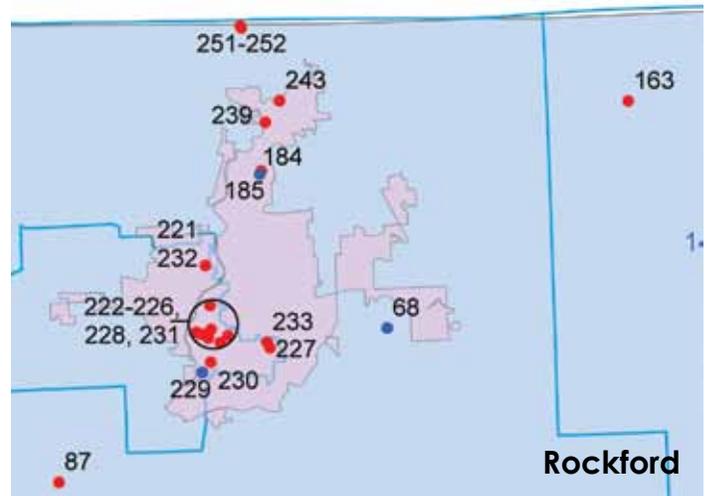
75.....Ronco Industrial Supply Co..... Bensenville..... IL  
 76.....San Mateo..... Bensenville..... IL  
 77.....Triangle Engineered Products..... Bensenville..... IL  
 78.....Precision Litho, Inc. .... Berkeley ..... IL  
 79.....Engineered Fastener Co..... Bloomingdale.... IL  
 80.....Pres-On, Inc..... Bolingbrook..... IL  
 81.....Wi-Tronix..... Bolingbrook..... IL  
 82.....Arrow Pattern & Foundry Co..... Bridgeview..... IL  
 83.....Fabrication Specialties, Inc..... Bridgeview..... IL  
 84.....Broadview True Value Hardware..... Broadview ..... IL  
 85.....D & W Manufacturing Company..... Broadview ..... IL  
 86.....Vapor Bus International..... Buffalo Grove.... IL  
 87.....Austin-Westran..... Byron..... IL

88.....JMA Rail Products..... Carol Stream..... IL  
 89.....Metals Technology Corp..... Carol Stream..... IL  
 90.....Nova Metals..... Carol Stream..... IL  
 91.....Prince Industries..... Carol Stream..... IL  
 92.....R.S. Hughes ..... Carol Stream..... IL  
 93.....Dangios Fine Art Work, Inc..... Carol Stream..... IL  
 94.....Able Electropolishing Company..... Chicago ..... IL  
 95.....Accurate Metal Fabricating..... Chicago ..... IL  
 96.....Accurate Products, Inc..... Chicago ..... IL  
 97.....Active Foam..... Chicago ..... IL  
 98.....Amsafe Commercial Products, Inc.... Chicago ..... IL  
 99.....Amsted Industries ..... Chicago ..... IL  
 100..Amsted Rail ..... Chicago ..... IL

101 ..Atwood Mobile Products ..... Chicago ..... IL  
102 ..Blue Star Embroidery Programs ..... Chicago ..... IL  
103 ..Caplugs ..... Chicago ..... IL  
104 ..Cardwell-Westinghouse ..... Chicago ..... IL  
105 ..Central Steel And Wire ..... Chicago ..... IL  
106 ..Clements National ..... Chicago ..... IL  
107 ..CVG-Trim Systems..... Chicago ..... IL  
108 ..D & W Manufacturing Company ..... Chicago ..... IL  
109 ..EVRAZ North America ..... Chicago ..... IL  
110 ..Freedman Seating..... Chicago ..... IL  
111 ..GATX Corporation..... Chicago ..... IL  
112 ..GE Capital Rail Services ..... Chicago ..... IL  
113 ..Imperial Plating Company ..... Chicago ..... IL  
114 ..Inter Swiss LTD ..... Chicago ..... IL  
115 ..James McHugh Construction Co. .... Chicago ..... IL  
116 ..KCP Metal Fabrications, Inc..... Chicago ..... IL  
117 ..Louis Meskan Foundry, Inc..... Chicago ..... IL  
118 ..Mid-States Aluminum Corp. .... Chicago ..... IL  
119 ..Mid-West Wire Specialties..... Chicago ..... IL  
120 ..Pro-Mar Staple & Nail, Inc..... Chicago ..... IL  
121 ..R & B Powder Coating..... Chicago ..... IL  
122 ..Sanlo, Inc. .... Chicago ..... IL  
123 ..Stanley Spring & Stamping ..... Chicago ..... IL  
124 ..Vossloh Fastening Systems America Chicago ..... IL  
125 ..Western-Cullen-Hayes ..... Chicago ..... IL  
126 ..White Eagle Spring & Wire ..... Chicago ..... IL  
127 ..Wisco Welding Industrial Supply..... Chicago ..... IL  
128 ..ALCO Springs Industries, Inc. .... Chicago Heights IL  
129 ..Funk Linko ..... Chicago Heights IL  
130 ..Saporito Finishing Co..... Cicero..... IL  
131 ..V Brothers Machine Corporation..... Cicero..... IL  
132 ..Bay Insulation Supply Of Illinois..... Countryside ..... IL  
133 ..Holland LP ..... Crete..... IL

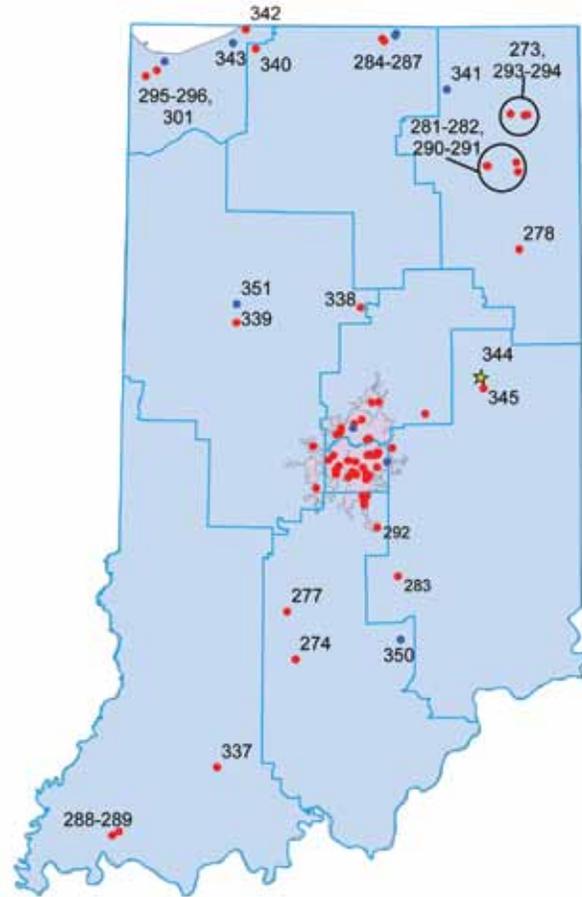
134 ..Forge Resources Group ..... Dekalb ..... IL  
135 ..La Marche..... Des Plaines ..... IL  
136 ..Lea & Sachs..... Des Plaines ..... IL  
137 ..Pamco Label Co..... Des Plaines ..... IL  
138 ..Parkway Metal Products..... Des Plaines ..... IL  
139 ..Precision Instruments Inc..... Des Plaines ..... IL  
140 ..National Railway Equipment Co..... Dixmoor..... IL  
141 ..Alliance Express ..... Elgin ..... IL  
142 ..Harting ..... Elgin ..... IL  
143 ..Modern Track Machinery, Inc..... Elgin ..... IL  
144 ..ACME Industries ..... Elk Grove..... IL  
145 ..Ascent Mfg. Co..... Elk Grove..... IL  
146 ..Data Weighing Systems, Inc..... Elk Grove..... IL  
147 ..ESCO Equipment Service Co. .... Elk Grove..... IL  
148 ..Jet Finishers ..... Elk Grove..... IL  
149 ..Tri Vantage LLC..... Elmhurst ..... IL  
150 ..Grove Plating Company, Inc..... Fox River Grove IL  
151 ..Midwest Imperial Steel Fabricators. Frankfort..... IL  
152 ..Paratech, Inc..... Frankfort..... IL  
153 ..Belmont Plating Works, Inc..... Franklin Park..... IL  
154 ..Fluid-Aire Dynamics Co. .... Franklin Park..... IL  
155 ..Swingmaster Corp..... Franklin Park..... IL  
156 ..W.W. Grainger ..... Franklin Park..... IL  
157 ..Miner Enterprises, Inc. .... Geneva..... IL  
158 ..Allied Electronics..... Glen Ellyn..... IL  
159 ..Bisco Industries, Inc. .... Glendale Heights IL  
160 ..Express Fasteners, Ltd..... Glendale Heights IL  
161 ..Screws Industries ..... Glendale Heights IL  
162 ..YKK U.S.A., Inc. .... Glenview ..... IL  
163 ..Harvard Products, Inc. .... Harvard..... IL  
164 ..Avers Machine & Manufacturing..... Harwood Hts ..... IL  
165 ..Tauber Brothers ..... Harwood Hts ..... IL  
166 ..Rexroth Bosch Group ..... Hoffman Estates. IL

167 ..Superior Felt & Filtration, LLC ..... Ingleside..... IL  
 168 ..Clipper Industries, Inc. .... Itasca ..... IL  
 169 ..J-Tec Metal Products, Inc..... Itasca ..... IL  
 170 ..National Trackwork, Inc. .... Itasca ..... IL  
 171 ..Tri-Fin, LLC..... Itasca ..... IL  
 172 ..Relay Systems of America ..... Joliet..... IL  
 173 ..Electro-Motive Diesel..... La Grange..... IL  
 174 ..Deslauriers ..... Lagrange Park... IL  
 175 ..S & S International, Inc ..... Lake Barrington . IL  
 176 ..Specialty Products & Insulation ..... Lake Bluff..... IL  
 177 ..Kor-Pak..... Lake Forest..... IL  
 178 ..Aldridge Electric..... Libertyville..... IL  
 179 ..Chicago Tag & Label, Inc. .... Libertyville..... IL  
 180 ..Laser Precision LLC ..... Libertyville..... IL  
 181 ..Morton Manufacturing ..... Libertyville..... IL  
 182 ..Zeman Manufacturing Company..... Lisle ..... IL  
 183 ..Buell Air Horns ..... Lyons..... IL  
 184 ..Powermark International ..... Machesney Park. IL  
 185 ..Safeway Services of Rockford ..... Machesney Park. IL  
 186 ..Midwest Steel & Rack..... Madison..... IL  
 187 ..MS Action Machining..... McHenry..... IL  
 188 ..OMNI Products, Inc..... McHenry..... IL  
 189 ..Allied Packaging Systems ..... Melrose Park .... IL  
 190 ..Alro Steel ..... Melrose Park .... IL  
 191 ..Bodycote Thermal Processing, Inc.. Melrose Park .... IL  
 192 ..Economic Plastic Coating, Inc..... Melrose Park .... IL  
 193 ..Elcon..... Minooka..... IL  
 194 ..Harrington Signal, Inc..... Moline ..... IL  
 195 ..Whiting Corporation ..... Monee..... IL  
 196 ..Eastwest Elastomer Group LLC ..... Montgomery..... IL  
 197 ..National Railway Equipment Co..... Mount Vernon... IL  
 198 ..U.S.A. Fab, Inc..... Mt. Prospect..... IL  
 199 ..ProBuilt Professional Lighting..... Mundelein ..... IL

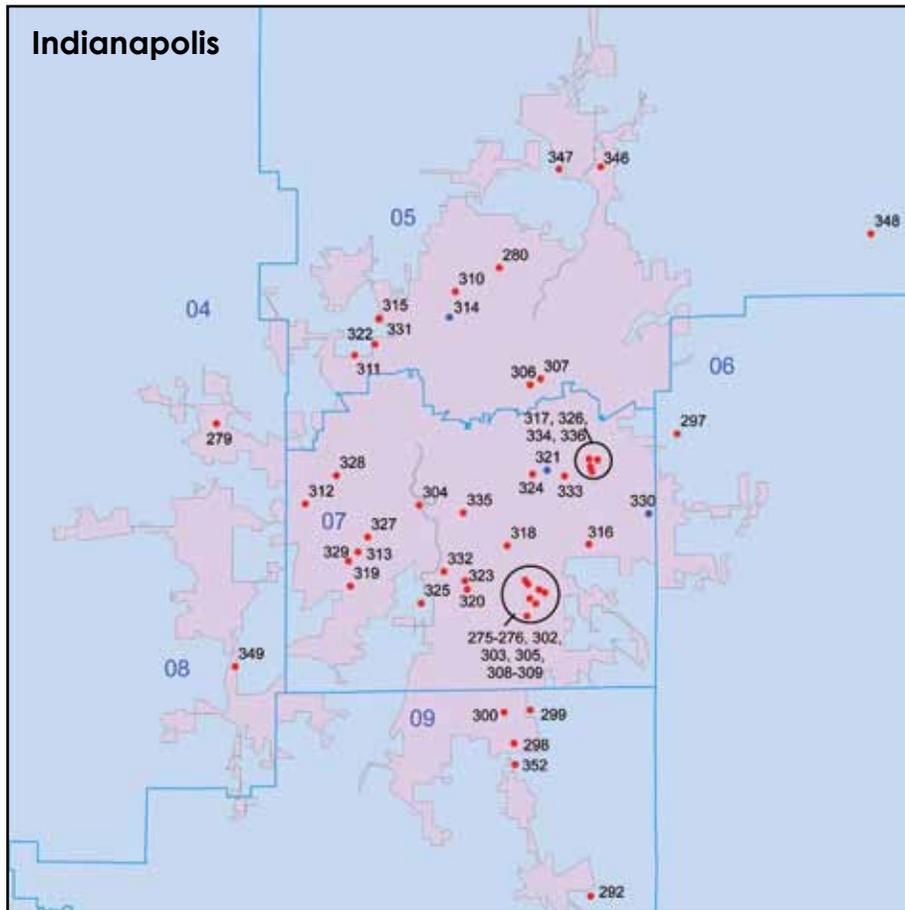


200 ..Alstom USA, Inc. .... Naperville ..... IL  
 201 ..Techno-Weld Consultants ..... New Lenox,..... IL  
 202 ..Disco Machine & Mfg..... Norridge..... IL  
 203 ..Chemco Manufacturing ..... Northbrook ..... IL  
 204 ..Chris Industries, Inc..... Northbrook ..... IL  
 205 ..Imperial Threads ..... Northbrook ..... IL  
 206 ..Rogan ..... Northbrook ..... IL  
 207 ..Zeco Manufacturing..... Northfield ..... IL  
 208 ..Sherwin Williams..... Northlake ..... IL  
 209 ..LB Foster Rail Products..... Oak Brook..... IL  
 210 ..Dubois Fabrics..... Oak Lawn ..... IL  
 211 ..Newark Electronics..... Palatine..... IL  
 212 ..Adecco ..... Palatine, ..... IL  
 213 ..Standard Car Truck Co, Inc. .... Park Ridge ..... IL  
 214 ..Caterpillar ..... Peoria ..... IL  
 215 ..Superior Components, Inc. .... Plainfield ..... IL  
 216 ..American Gear ..... Prophetstown .. IL  
**217 .Nippon Sharyo USA..... Rochelle ..... IL**  
 218 ..Hill Fastener ..... Rock Falls..... IL  
 219 ..IFH Group..... Rock Falls..... IL  
 220 ..R & R Metalcraft ..... Rock Falls..... IL  
 221 ..Advanced Machine & Engineering... Rockford..... IL  
 222 ..Dasco Pro..... Rockford..... IL

223 ..Dixon Automatic Tools.....	Rockford.....	IL
224 ..Fiberglass Innovations .....	Rockford.....	IL
225 ..Forgings & Stampings .....	Rockford.....	IL
226 ..GFI Metal Treating.....	Rockford.....	IL
227 ..Global Display Solutions .....	Rockford.....	IL
228 ..Leatherhead Tools .....	Rockford.....	IL
229 ..MTE Hydraulics .....	Rockford.....	IL
230 ..Pyramid Plastics.....	Rockford.....	IL
231 ..Rail Construction Equipment Co.....	Rockford.....	IL
232 ..Target Laser & Machining, Inc.....	Rockford.....	IL
233 ..The Caldwell Group.....	Rockford.....	IL
234 ..Lenzip Manufacturing.....	Rolling Meadows. IL	
235 ..CGI Automated Manufacturing .....	Romeoville .....	IL
236 ..Chicago Tube & Iron .....	Romeoville .....	IL
237 ..Colo Railroad Builders.....	Romeoville .....	IL
238 ..Stucchi USA.....	Romeoville .....	IL
239 ..Pbc Linear .....	Roscoe .....	IL
240 ..Abbate Screw Products, Inc.....	Roselle.....	IL
241 ..Metal Tech., Inc. ....	Roselle.....	IL
242 ..Scientific Metal Treating .....	Roselle.....	IL
243 ..Alternative Bearing Corp. ....	Schaumburg.....	IL
244 ..Beyond Components .....	Schaumburg.....	IL
245 ..Electro Wire .....	Schaumburg.....	IL
246 ..Accent Metal Finishing.....	Schiller Park .....	IL
247 ..Hi-Tech Manufacturing, LLC .....	Schiller Park .....	IL
248 ..Mohawk Spring Corporation .....	Schiller Park .....	IL
249 ..National Railway Equipment Co.....	Silvis.....	IL
250 ..Blue Ribbon Fastener Co. ....	Skokie.....	IL
251 ..Electrol Specialties.....	South Beloit .....	IL
252 ..Meadoweld Machine, Inc.....	South Beloit .....	IL
253 ..Hadady .....	South Holland ..	IL
254 ..Ellcon-National.....	St. Charles.....	IL
255 ..Westwood Machine & Tool .....	Sterling.....	IL



256 ..KSO Metalfab, Inc.....	Streamwood .....	IL
257 ..Viso'S Machine Shop.....	Streamwood .....	IL
258 ..Teleweld, Inc. ....	Streator.....	IL
259 ..HFR Precision Machining, Inc.....	Sugar Grove.....	IL
260 ..Midway Industrial Equipment, Inc..	Sugar Grove.....	IL
261 ..QC Powder, Inc. ....	Villa Park.....	IL
262 ..Aldon.....	Waukegan.....	IL
263 ..Anchor Brake Shoe Co. ....	West Chicago .....	IL
264 ..GK Steel Services.....	West Chicago .....	IL
265 ..Simplex.....	Westmont .....	IL
266 ..MRT Track & Services .....	Wheaton.....	IL
267 ..Technical Products, Inc. ....	Wheaton.....	IL
268 ..Microtech Machine Company .....	Wheeling.....	IL
269 ..Icon Metalcraft, Inc. ....	Wood Dale .....	IL
270 ..J.P. Bell Fabricating, Inc .....	Wood Dale .....	IL



271 ..MSC Industrial Supply Co..... Wood Dale ..... IL  
 272 ..Progress Rail Services..... Woodridge..... IL

## INDIANA

273 ..Prince Manufacturing ..... Avilla ..... IN  
 274 ..Dynamic Specialty Metal Spinning... Bedford..... IN  
 275 ..JP Corp ..... Beech Grove..... IN  
 276 ..Katalyst Industrial Coatings..... Beech Grove..... IN  
 277 ..National Salvage & Service Corp ..... Bloomington..... IN  
 278 ..Nesco Rentals ..... Bluffton..... IN  
 279 ..Schindler Electric..... Brownsburg..... IN  
 280 ..Industrial Specialties..... Carmel..... IN  
 281 ..LB Foster ..... Columbia City... IN  
 282 ..Steel Dynamics Sales N. America ..... Columbia City... IN  
 283 ..Taylor Bros Construction ..... Columbus..... IN  
 284 ..ACTIA ..... Elkhart ..... IN

285 ..Adams & Westlake..... Elkhart ..... IN  
 286 ..Dynamic Metals ..... Elkhart ..... IN  
 287 ..Hadley Products Corp..... Elkhart ..... IN  
 288 ..Flanders Electric ..... Evansville..... IN  
 289 ..Industrial Filter Manufacturers..... Evansville..... IN  
 290 ..Crane America Services ..... Fort Wayne..... IN  
 291 ..Press-Seal Gasket Corp Fastener Div ...Fort Wayne..... IN  
 292 ..Quality Mill Supply Co., Inc..... Franklin ..... IN  
 293 ..Griffith Rubber Mills..... Garrett..... IN  
 294 ..Griffith Rubber Mills..... Garrett..... IN  
 295 ..Pro Pump..... Gary..... IN  
 296 ..Stanrail ..... Gary ..... IN  
 297 ..Midwest Mole, Inc..... Greenfield ..... IN  
 298 ..Advantage Electronics ..... Greenwood..... IN  
 299 ..American Industrial Corporation ..... Greenwood..... IN

300 ..Wessels Co. .... Greenwood..... IN  
301 ..Diesel Electrical Equipment..... Griffith..... IN  
302 ..A & A Industrial Supply ..... Indianapolis..... IN  
303 ..Alro Steel ..... Indianapolis..... IN  
304 ..American Wire Rope & Sling..... Indianapolis..... IN  
305 ..Applied Industrial Technologies ..... Indianapolis..... IN  
306 ..Baker Machinery..... Indianapolis..... IN  
307 ..Bisco Industries..... Indianapolis..... IN  
308 ..Bo-Mar Industries ..... Indianapolis..... IN  
309 ..Crown Screw & Bolt..... Indianapolis..... IN  
310 ..Delta Faucet..... Indianapolis..... IN  
311 ..E-A-R Specialty Composites ..... Indianapolis..... IN  
312 ..Elliott Equipment..... Indianapolis..... IN  
313 ..Fairbanks Scales..... Indianapolis..... IN  
314 ..Firestone Industrial Products ..... Indianapolis..... IN  
315 ..Grunau..... Indianapolis..... IN  
316 ..High Voltage Maintenance ..... Indianapolis..... IN  
317 ..IDS Blast Finishing ..... Indianapolis..... IN  
318 ..Indianapolis Drum Service ..... Indianapolis..... IN  
319 ..Joseph T Ryerson & Son..... Indianapolis..... IN  
320 ..Kennedy Tank & Manufacturing..... Indianapolis..... IN  
321 ..Koorsen Protection ..... Indianapolis..... IN  
322 ..Landsberg ..... Indianapolis..... IN  
323 ..Lauck Mfg..... Indianapolis..... IN  
324 ..Lawler Manufacturing ..... Indianapolis..... IN  
325 ..Lehigh Hansen Aggregates ..... Indianapolis..... IN  
326 ..Loy Instrument ..... Indianapolis..... IN  
327 ..McGinty Conveyors ..... Indianapolis..... IN  
328 ..PEI Genesis ..... Indianapolis..... IN  
329 ..Rocore..... Indianapolis..... IN  
330 ..Schreiber Lumber..... Indianapolis..... IN  
331 ..System Scale..... Indianapolis..... IN  
332 ..Tarpinning-Lafollette ..... Indianapolis..... IN

333 ..The Andersen's Rail Group ..... Indianapolis..... IN  
334 ..Unistrut Indianapolis..... Indianapolis..... IN  
335 ..Universal Tool & Supply..... Indianapolis..... IN  
336 ..Worldwide Filters..... Indianapolis..... IN  
337 ..NAP GLADU Tools ..... Jasper..... IN  
338 ..Pepka Spring..... Kokomo ..... IN  
339 ..Wabash National Corporation..... Lafayette..... IN  
340 ..E&L Paving & Construction ..... LaPorte ..... IN  
341 ..Structural Composites of Indiana .... Ligonier ..... IN  
342 ..Dwyer Instruments..... Michigan City ... IN  
343 ..Sprague Devices ..... Michigan City ... IN  
**344. Electro-Motive Diesel ..... Muncie ..... IN**  
345 ..Lift-a-Loft ..... Muncie ..... IN  
346 ..Gaylor Electric..... Noblesville..... IN  
347 ..Inohva Pneumatics..... Noblesville..... IN  
348 ..Capital Machinery Systems..... Pendleton..... IN  
349 ..Hoosier Equipment Service..... Plainfield..... IN  
350 ..Cummins, Inc. .... Seymour ..... IN  
351 ..Dayton-Phoenix Group, Inc. .... West Lafayette ..IN  
352 ..Certa Craft..... Whiteland ..... IN

## KANSAS

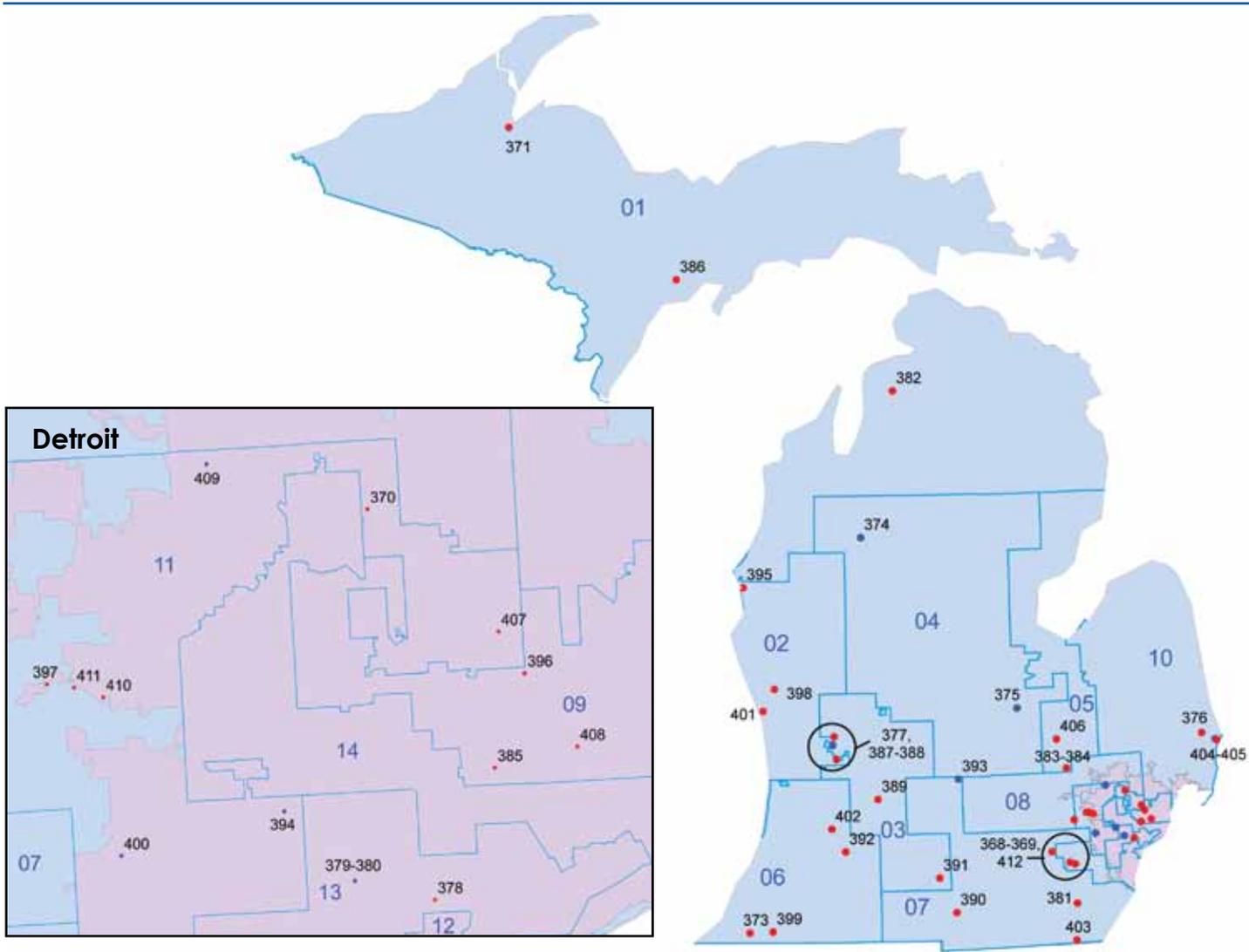
353 ..Amsted RPS..... Atchison..... KS  
354 ..Bradken..... Atchison..... KS

## KENTUCKY

355 ..KONI North America..... Hebron ..... KY  
356 ..Dynamic Metals Kentucky LLC ..... Louisville..... KY  
357 ..Invensys Rail..... Louisville..... KY  
358 ..Invensys Rail..... Marion..... KY  
**359. National Railway Equipment ..... Paducah..... KY**

## LOUISIANA

360 ..NRE Power Systems..... Houma..... LA  
361 ..Graham-White Manufacturing Co..... Shreveport..... LA



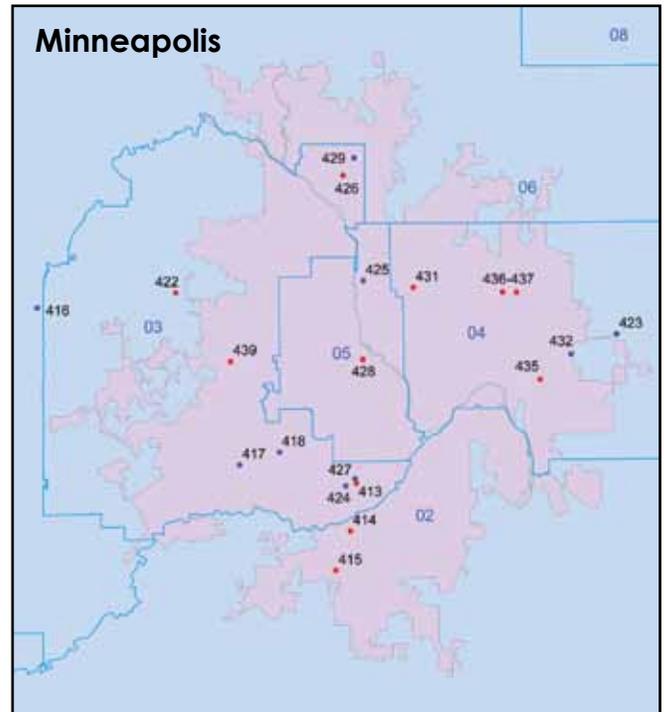
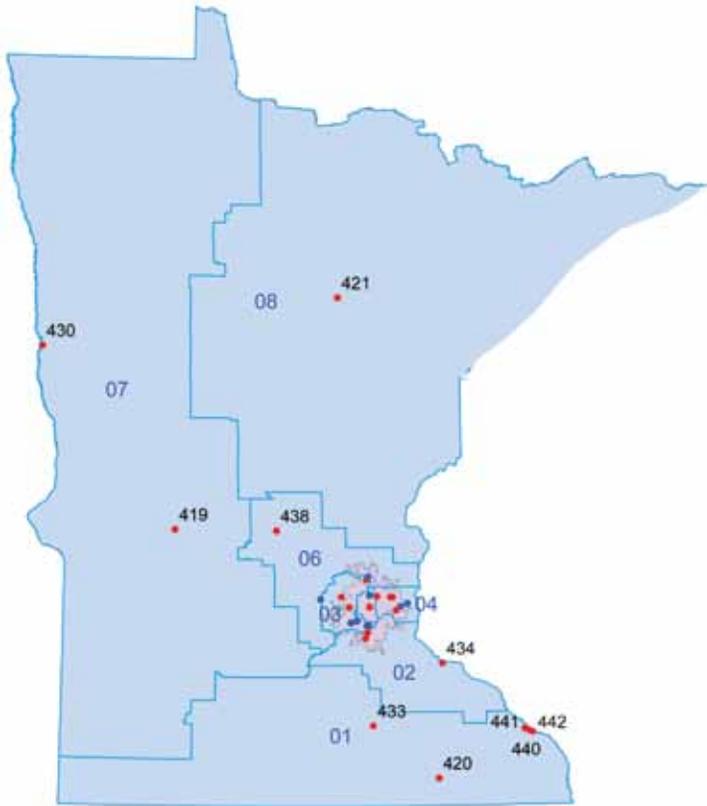
## MARYLAND

- 362 ..ARINC Rail (Rockwell Collins)..... Annapolis..... MD
- 363 ..RailPlan International, Inc..... Baltimore ..... MD
- 364 ..Wabtec Railway Electronics ..... Germantown..... MD
- 365 ..IFE North America..... Westminster ..... MD
- 366 ..Knorr Brake Corp..... Westminster ..... MD
- 367 ..Merak North America ..... Westminster ..... MD

## MICHIGAN

- 368 ..Dexter Stamping..... Ann Arbor..... MI
- 369 ..Schnorr ..... Ann Arbor..... MI
- 370 ..Custom Service & Design..... Auburn Hills ..... MI
- 371 ..Pettibone Michigan ..... Baraga ..... MI

- 372 ..Peaker Services..... Brighton ..... MI
- 373 ..Aalfs Petroleum ..... Buchanan ..... MI
- 374 ..Borg Warner Cooling..... Cadillac ..... MI
- 375 ..Hehr International ..... Chesaning ..... MI
- 376 ..Hess Asphalt Paving & Construction Clyde ..... MI
- 377 ..Dubric Packing & Seals..... Comstock Park.. MI
- 378 ..Chemcoa ..... Detroit..... MI
- 379 ..Detroit Diesel..... Detroit..... MI
- 380 ..MTU America..... Detroit..... MI
- 381 ..Mitchell Equipment Corporation ..... Dundee..... MI
- 382 ..East Jordan Iron Works ..... East Jordan..... MI
- 383 ..FMC Rail..... Fenton ..... MI



384 ..Progress Rail Equipment Leasing..... Fenton ..... MI  
 385 ..Powertran ..... Ferndale ..... MI  
 386 ..Independent Machine Company ..... Gladstone ..... MI  
 387 ..American Seating..... Grand Rapids..... MI  
 388 ..Suspa ..... Grand Rapids..... MI  
 389 ..Hastings Fiber Glass ..... Hastings..... MI  
 390 ..Alsons ..... Hillsdale ..... MI  
 391 ..Steel Products (MCS Industries) ..... Homer ..... MI  
 392 ..Total Plastics ..... Kalamazoo..... MI  
 393 ..Alcoa..... Lansing ..... MI  
 394 ..G4S Secure Solutions USA ..... Livonia ..... MI  
 395 ..Harsco Rail..... Ludington ..... MI  
 396 ..Brasco International..... Madison Heights. MI  
 397 ..General Bearing..... Milford ..... MI  
 398 ..Trinity Equipment..... Muskegon ..... MI  
 399 ..Kenneth Smith Inc..... Niles ..... MI  
 400 ..ZF North America ..... Northville ..... MI  
 401 ..Omnicast LLC..... Norton Shores... MI

402 ..Peloton, Inc..... Otsego ..... MI  
 403 ..Bullard Company ..... Ottawa Lake ..... MI  
 404 ..Bach-Simpson..... Port Huron ..... MI  
 405 ..Michigan Petroleum Technologies ... Port Huron ..... MI  
 406 ..Hougen Manufacturing..... Swartz Creek ..... MI  
 407 ..Schaeffler Group North America..... Troy ..... MI  
 408 ..Armond Cassil Railroad Construction . Warren ..... MI  
 409 ..Hadley-Transmatic ..... Waterford ..... MI  
 410 ..NLB Corporation ..... Wixom ..... MI  
 411 ..Railmark Holdings, Inc. .... Wixom ..... MI  
 412 ..Interclean Equipment..... Ypsilanti..... MI

## MINNESOTA

413 ..Aspen Equipment Company..... Bloomington..... MN  
 414 ..Edward Kraemer and Sons ..... Burnsville ..... MN  
 415 ..Northern Tool & Equipment ..... Burnsville ..... MN  
 416 ..Railway Equipment Co. .... Delano ..... MN  
 417 ..Eaton Hydraulics Group USA..... Eden Prairie..... MN  
 418 ..ISC Applied Systems, Inc..... Eden Prairie..... MN

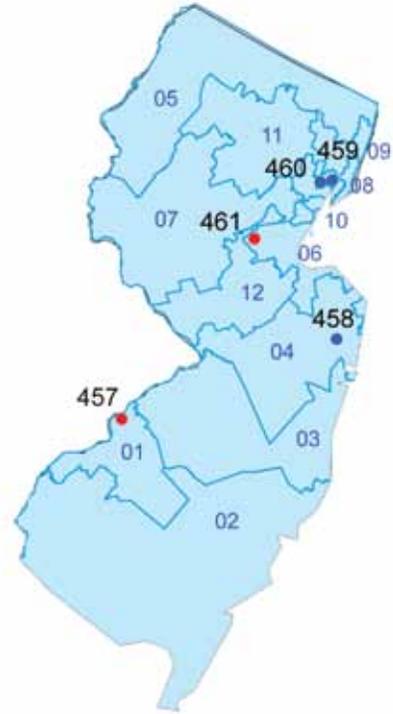
419 ..Wasp, Inc. ....	Glenwood.....	MN
420 ..Andy's Electrical Service .....	Grand Meadow ..	MN
421 ..Industrial Lubricant .....	Grand Rapids.....	MN
422 ..Loram.....	Hamel .....	MN
423 ..Telemetry & Process Controls .....	Lake Elmo .....	MN
424 ..Donaldson Company, Inc. ....	Minneapolis .....	MN
425 ..Reviva.....	Minneapolis .....	MN
426 ..Spiral Manufacturing.....	Minneapolis .....	MN
427 ..Thermo King Corp.....	Minneapolis .....	MN
428 ..Western Railroad Equipment Co.....	Minneapolis .....	MN
429 ..ZTR Control Systems .....	Minneapolis .....	MN
430 ..PortaCo, Inc. ....	Moorhead .....	MN
431 ..Accustream.....	New Brighton....	MN
432 ..Oakdale Communications Solutions	Oakdale .....	MN
433 ..Modern Metal Products .....	Owatonna .....	MN
434 ..Railway Research.....	Red Wing.....	MN
435 ..3M Traffic Safety Systems .....	St. Paul .....	MN
436 ..Dynamic Air, Inc. ....	St. Paul .....	MN
437 ..IPS Worldwide.....	St. Paul .....	MN
438 ..McDowall Co. ....	Waite Park.....	MN
439 ..Lewis Bolt & Nut Co.....	Wayzata .....	MN
440 ..Badger Equipment Company.....	Winona .....	MN
441 ..Fastenal Company .....	Winona .....	MN
442 ..Miller Felpax Corporation .....	Winona .....	MN

## MISSOURI

443 ..Able Manufacturing and Assembly ..	Joplin.....	MO
444 ..Chemetron .....	Kansas City.....	MO
445 ..Wabtec Global Services .....	Kansas City.....	MO
446 ..Snyder Equipment Co., Inc.....	Nixa .....	MO
447 ..Snyder Equipment Co., Inc.....	Wheatland .....	MO

## MISSISSIPPI

<b>448. Siemens Industry, Inc. ....</b>	<b>Richland .....</b>	<b>MS</b>
---	-----------------------	-----------



## NORTH CAROLINA

449 ..Tec Tran .....	Burlington .....	NC
450 ..ABB .....	Cary .....	NC
451 ..Railroad Friction Products Corp .....	Laurinburg .....	NC
452 ..Cummins, Inc. ....	N. Whitakers.....	NC
453 ..Lantal Textiles .....	Rural Hall .....	NC

## NEBRASKA

454 ..Thermo King Corp.....	Hastings.....	NE
455 ..Kawasaki Motors Manufacturing.....	Lincoln .....	NE

## NEW HAMPSHIRE

456 ..Nora Systems, Inc.....	Salem .....	NH
------------------------------	-------------	----

## NEW JERSEY

457 ..Bombardier Transportation.....	Camden.....	NJ
458 ..Dialight .....	Farmingdale.....	NJ
459 ..MAC Products, Inc. ....	Kearny .....	NJ
460 ..Panasonic Corp of North America ....	Newark .....	NJ
461 ..Strato Transit Components, Inc. ....	Piscataway.....	NJ

## NEVADA

462 ..Graham-White Manufacturing Co..... Carson City..... NV

## NEW YORK

463 ..Simmons Machine Tool Corp ..... Albany ..... NY

464 ..SEPSA North America ..... Ballston Spa ..... NY

465 ..Snake Tray ..... Bay Shore ..... NY

466 ..Harris Assembly Group ..... Binghamton ..... NY

467 ..Westcode Inc..... Binghamton ..... NY

468 ..Precision Assembly Technologies.... Bohemia ..... NY

469 ..Hudson Machine Works, Inc. .... Brewster..... NY

470 ..Buffalo Metal Casting Co., Inc. .... Buffalo..... NY

471 ..Transco Railway Products, Inc. .... Buffalo..... NY

472 ..CMF/Continental Fan..... Buffalo ..... NY

473 ..Advanced Transit Manufacturing .... Canisteo..... NY

474 ..Cattco USA ..... Cattaraugus..... NY

475 ..Testori Interiors Inc..... Champlain ..... NY

**476. AnsaldoBreda, Inc..... Dansville ..... NY**

477 ..Advanced Structures Corporation.... Deer Park..... NY

478 ..Strato Transit Components, Inc. .... Eagle Bridge..... NY

**479. CAF USA, Inc. .... Elmira ..... NY**

480 ..Wabtec Passenger Transit ..... Elmsford..... NY

481 ..RailComm..... Fairport ..... NY

482 ..Tapeswitch..... Farmingdale ..... NY

483 ..TCS Electronics ..... Farmington ..... NY

484 ..DRI Relays, Inc. .... Hauppauge..... NY

485 ..Schaltbau North America ..... Hauppauge..... NY

486 ..Technimetal Precision Industries.... Hauppauge..... NY

487 ..Twinco Mfg Co., Inc. .... Hauppauge..... NY

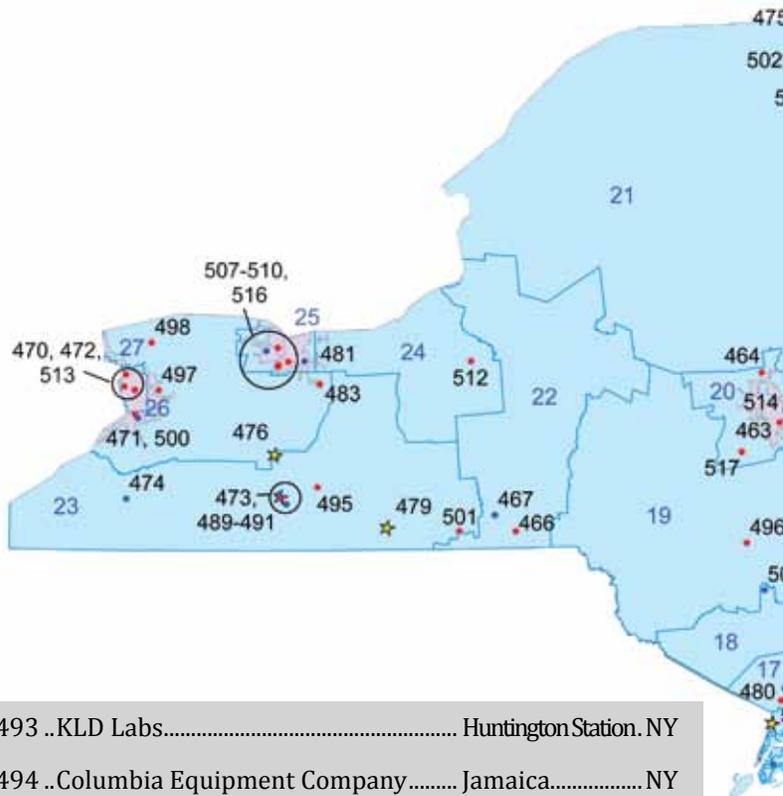
488 ..VPS Control Systems, Inc. .... Hoosick..... NY

**489. Alstom USA, Inc..... Hornell..... NY**

490 ..Lin Industries, Inc..... Hornell..... NY

491 ..TTA Systems & Components FacilityHornell..... NY

492 ..Era-Contact USA, LLC..... Huntington..... NY



493 ..KLD Labs..... Huntington Station. NY

494 ..Columbia Equipment Company..... Jamaica..... NY

495 ..Bombardier Transportation..... Kanona..... NY

496 ..Charlton Precision Products, Inc. .... Kingston ..... NY

497 ..Sealing Devices, Inc. .... Lancaster ..... NY

498 ..Niagara Cooler, Inc. .... Lockport..... NY

499 ..Verint Systems..... Melville ..... NY

500 ..ITT - Enidine, Inc..... Orchard Park..... NY

501 ..Applied Technology Manufacturing. Owego ..... NY

**502. Bombardier Transportation ..... Plattsburgh ..... NY**

503 ..Vapor Stone Rail Systems ..... Plattsburgh ..... NY

504 ..KPS N.A., Inc. .... Pleasantville ..... NY

505 ..Koshii Maxelum America..... Poughkeepsie.... NY

506 ..Julian A. McDermott Corp. .... Ridgewood ..... NY

507 ..Chamberlin Rubber Company, Inc... Rochester..... NY

508 ..HN Precision ..... Rochester..... NY

509 ..Rail Development Group ..... Rochester..... NY

510 ..ACRO Industries ..... Rochester ..... NY

511 ..Linovation, Inc..... Ronkonkoma ..... NY

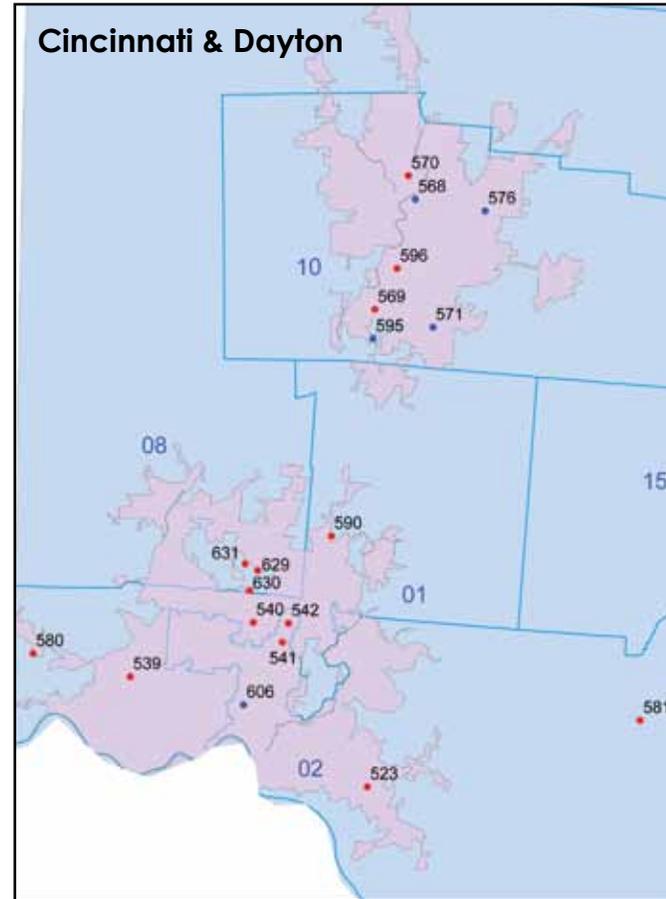
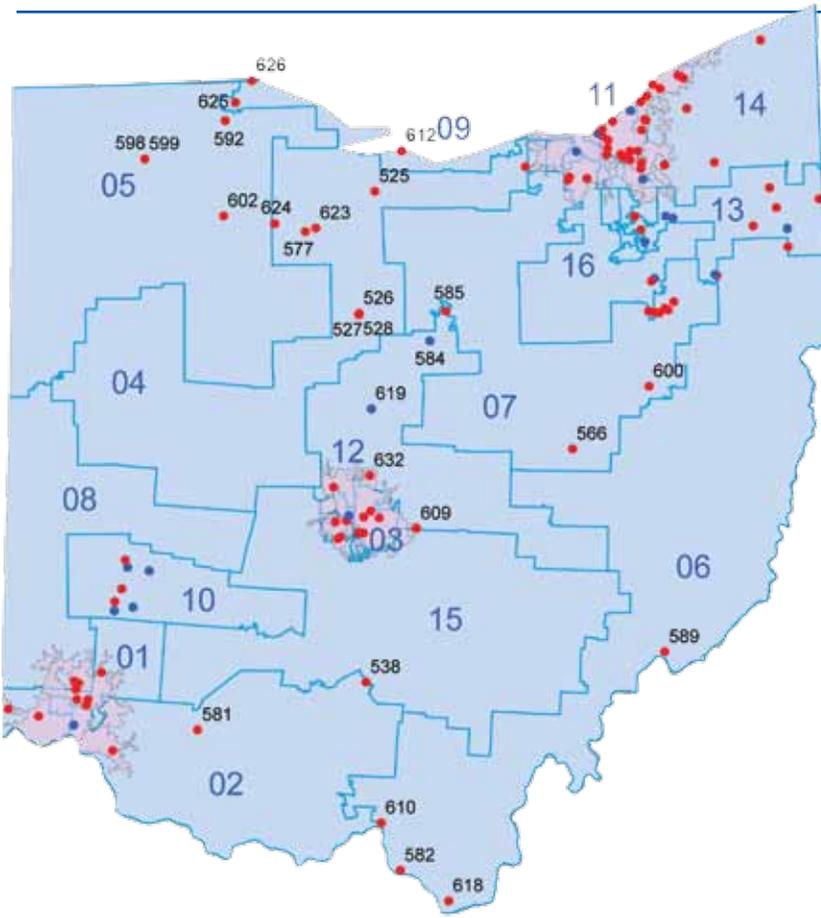


526 ..American & Ohio Locomotive Crane Bucyrus.....	OH
527 ..North American Equipment Sales .... Bucyrus.....	OH
528 ..W.E. Lott.....	Bucyrus..... OH
529 ..Morrison Metalweld Process Corp... Canfield.....	OH
530 ..Midwest Industrial Supply.....	Canton..... OH
531 ..Ohio Gratings.....	Canton..... OH
532 ..Ralph C. Williams.....	Canton..... OH
533 ..Sperling Railway Services .....	Canton..... OH
534 ..Timken .....	Canton..... OH
535 ..United Grinding.....	Canton..... OH
536 ..Construction Polymers Technologies. Chagrin Falls.....	OH
537 ..Solon Manufacturing .....	Chardon..... OH
538 ..Union Spring & Manufacturing.....	Chillicothe ..... OH
539 ..Cliffe Metal Products .....	Cincinnati..... OH
540 ..Crown Lift Trucks .....	Cincinnati..... OH
541 ..Fechheimer Brothers .....	Cincinnati..... OH
542 ..Piedmont Plastics .....	Cincinnati..... OH
543 ..Applied Industrial Technologies .....	Cleveland ..... OH
544 ..Cleveland Track Material.....	Cleveland ..... OH
545 ..CR Construction.....	Cleveland ..... OH
546 ..Demag Cranes & Components.....	Cleveland ..... OH
547 ..Eaton Corporation.....	Cleveland ..... OH
548 ..Erico Products.....	Cleveland ..... OH
549 ..Hickok inc.....	Cleveland ..... OH
550 ..N. T. Ruddock Company.....	Cleveland ..... OH
551 ..Parker .....	Cleveland ..... OH
552 ..Performed Line Product .....	Cleveland ..... OH
553 ..Sherwin Williams.....	Cleveland ..... OH
554 ..SIFCO Selective Plating.....	Cleveland ..... OH
555 ..State Industrial Products.....	Cleveland ..... OH
556 ..Swiger Coil Company .....	Cleveland ..... OH
557 ..Capital Spring Division.....	Columbus..... OH
558 ..Columbus Steel Castings Co. ....	Columbus..... OH

512 ..Meloon Foundries .....	Syracuse ..... NY
513 ..Woodward Industries .....	Tonawanda..... NY
514 ..International Electronic Machines... Troy.....	NY
515 ..Matrix Railway Corporation.....	West Babylon .... NY
516 ..Alstom Signaling North America.....	West Henrietta NY
517 ..Hannay Reels .....	Westerlo ..... NY
<b>518. Kawasaki Rail Car .....</b>	<b>Yonkers..... NY</b>

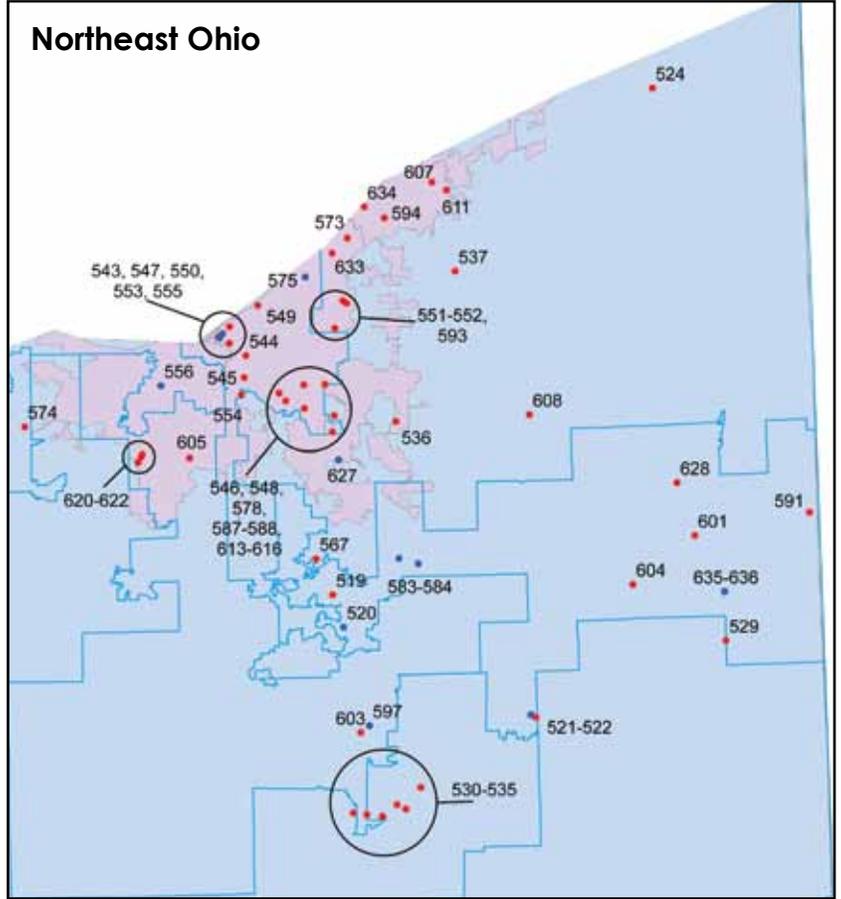
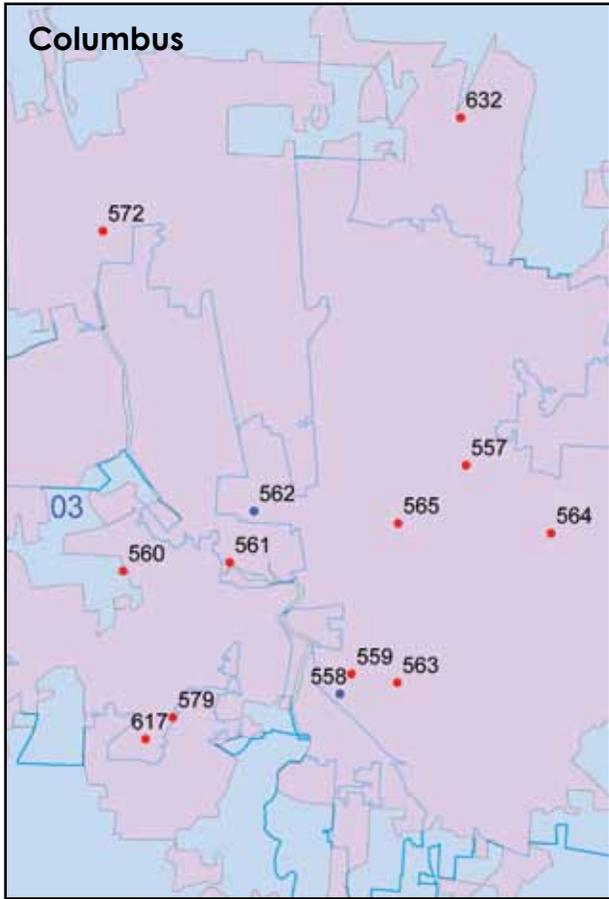
**OHIO**

519 ..Ace Precision Industries .....	Akron..... OH
520 ..RCA Rubber .....	Akron..... OH
521 ..Alliance Casting .....	Alliance..... OH
522 ..Filnor.....	Alliance ..... OH
523 ..Solutions Plus, Inc. ....	Amelia ..... OH
524 ..Delta Railroad Construction.....	Ashtabula..... OH
525 ..Seneca Railroad & Mining .....	Bellevue..... OH



559 ..Fritz Rumer Cooke.....	Columbus.....	OH
560 ..Laird Plastics .....	Columbus.....	OH
561 ..Ohio Power Tool.....	Columbus.....	OH
562 ..Rail Products International.....	Columbus.....	OH
563 ..Spirit Services .....	Columbus.....	OH
564 ..Tri Palm International.....	Columbus.....	OH
565 ..Yenkin Majestic.....	Columbus.....	OH
566 ..Sancast Inc.....	Coshocton.....	OH
567 ..Becker Pumps.....	Cuyahoga Falls..	OH
568 ..Dayton-Phoenix Group, Inc .....	Dayton.....	OH
569 ..Precision Gage & Tool .....	Dayton.....	OH
570 ..Sabic Polymershapes.....	Dayton.....	OH
571 ..Stromag.....	Dayton.....	OH
572 ..LB Foster.....	Dublin .....	OH
573 ..Spectrum Infrared.....	Eastlake .....	OH
574 ..Master Bolt Manufacturing.....	Elyria .....	OH

575 ..PPG Industries .....	Euclid.....	OH
576 ..Lockheed Martin .....	Fairborn.....	OH
577 ..Morgan AM & T.....	Fostoria.....	OH
578 ..R.E.L.A.M., Inc. ....	Glenwillow .....	OH
579 ..Advance CNC Machining.....	Grove City .....	OH
580 ..Cincinnati Incorporated.....	Harrison .....	OH
581 ..Railroad Tools & Solutions.....	Hillsboro .....	OH
582 ..Asplundh Railroad Division .....	Ironton.....	OH
583 ..Ametek Rotron Products .....	Kent.....	OH
584 ..Schneller .....	Kent.....	OH
585 ..ADTrans (Advanced Transit Seating) .	Mansfield .....	OH
586 ..D & A International Casting.....	Mansfield .....	OH
587 ..Clifton Steel .....	Maple Heights...OH	
588 ..Ohio Magnetics .....	Maple Heights...OH	
589 ..Hi-Vac Corporation.....	Marietta.....	OH



590 ..Cincinnati Industrial..... Mason..... OH  
 591 ..Roemer Industries..... Masury ..... OH  
 592 ..Andersons..... Maumee..... OH  
 593 ..Mayfran International..... Mayfield Village OH  
 594 ..M & F Technology ..... Mentor ..... OH  
 595 ..Com Net Software..... Miamisburg..... OH  
 596 ..International Display Systems ..... Moraine ..... OH  
 597 ..Powell Electrical Systems..... N. Canton..... OH  
 598 ..Railtech Boutet ..... Napoleon..... OH  
 599 ..Railtech Matweld ..... Napoleon..... OH  
 600 ..Gradall Industries, Inc. .... New Philadelphia. OH  
 601 ..LB Foster..... Niles ..... OH  
 602 ..D.S. Brown..... N. Baltimore..... OH  
 603 ..Timken ..... North Canton..... OH  
 604 ..Railworks Track Services ..... North Jackson ... OH

605 ..Quest Corporation ..... North Royalton. OH  
 606 ..Siemens Industry, Inc..... Norwood ..... OH  
 607 ..SAS Rubber ..... Painesville ..... OH  
 608 ..Iron Horse Engineering..... Parkman..... OH  
 609 ..Redhawk Energy Systems ..... Pataskala..... OH  
 610 ..KSA..... Portsmouth..... OH  
 611 ..Ohio Valley Trackwork ..... Rio Grande..... OH  
 612 ..Industrial Nut..... Sandusky..... OH  
 613 ..Acme Construction..... Solon..... OH  
 614 ..Chromate Industrial ..... Solon ..... OH  
 615 ..RELAM..... Solon..... OH  
 616 ..Tameran Graphic Systems..... Solon..... OH  
 617 ..Watcon..... South Bend..... OH  
 618 ..McSweeney's, Inc..... South Point..... OH  
 619 ..Vomela Specialty Co..... St. Paul ..... OH

620 ..Chemical Methods .....	Strongsville .....	OH
621 ..Safety Sign Co. ....	Strongsville .....	OH
622 ..Durox.....	Strongsville .....	OH
623 ..Seves USA .....	Tiffin .....	OH
624 ..Tiffin Crane.....	Tiffin .....	OH
625 ..A & K Railroads Materials .....	Toledo.....	OH
626 ..Kay Toledo Tag.....	Toledo.....	OH
627 ..Visual Marking Systems .....	Twinsburg .....	OH
628 ..Schaefer.....	Warren.....	OH
629 ..Contech Engineered Solutions .....	West Chester ....	OH
630 ..Newberry Construction .....	West Chester ....	OH
631 ..TSS Technology.....	West Chester ....	OH
632 ..RWC Inc.....	Westerville .....	OH
633 ..Stevenson Oil & Chemical.....	Wickliffe .....	OH
634 ..Kottler Metal Products .....	Willoughby.....	OH
635 ..Dekay Fabricators, Inc. ....	Youngstown .....	OH
636 ..Transit Fittings of North America.....	Youngstown .....	OH

## OKLAHOMA

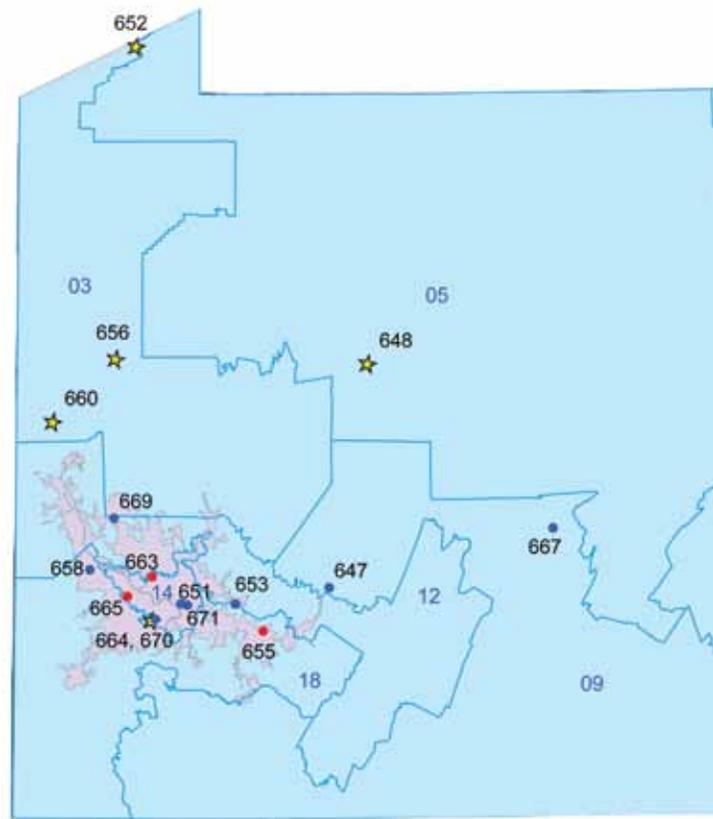
637 ..Eaton Corporation .....	Shawnee .....	OK
638 ..Railroad Signal International .....	Tulsa .....	OK

## OREGON

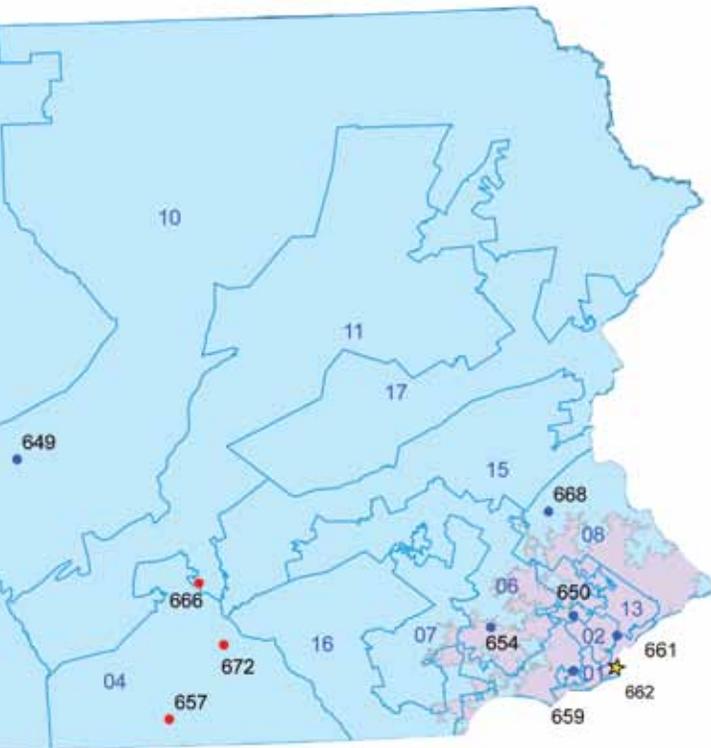
<b>639. United Streetcar .....</b>	<b>Clackamas.....</b>	<b>OR</b>
640 ..Griffith Rubber Mills.....	Eugene .....	OR
641 ..AM Equipment.....	Jefferson .....	OR
642 ..Greenbrier Rail Services .....	Lake Oswego ....	OR
643 ..Griffith Rubber Mills.....	Portland.....	OR
644 ..Gunderson, LLC .....	Portland.....	OR
645 ..Northwest Rail Electric, Inc.....	Portland.....	OR
646 ..Greenbrier Rail Services .....	Springfield.....	OR

## PENNSYLVANIA

647 ..Penn Machine Co - Transit Div .....	Blairsville.....	PA
<b>648. Brookville Equipment .....</b>	<b>Brookville .....</b>	<b>PA</b>
649 ..Standard Steel .....	Burnham .....	PA



650 ..Young Windows.....	Conshohocken ..	PA
651 ..Siemens Rail Automation .....	East Pittsburgh.	PA
<b>652. GE Transportation Systems .....</b>	<b>Erie.....</b>	<b>PA</b>
653 ..Fulmer Company.....	Export.....	PA
654 ..USSC Group.....	Exton.....	PA
655 ..Wabtec Rubber Products.....	Greensburg .....	PA
<b>656. GE Transportation Systems .....</b>	<b>Grove City .....</b>	<b>PA</b>
657 ..CAM Innovation, Inc. ....	Hanover .....	PA
658 ..A. Stucki Company.....	Moon Twp.....	PA
659 ..UTC/Rail & Airsources , Inc.....	Morton .....	PA
<b>660. Kasgro Rail.....</b>	<b>New Castle .....</b>	<b>PA</b>
661 ..Bentech, Inc.....	Philadelphia.....	PA
<b>662. Hyundai Rotem Co .....</b>	<b>Philadelphia ...</b>	<b>PA</b>
663 ..Barber Spring .....	Pittsburgh.....	PA
<b>664. Bombardier Transportation .....</b>	<b>Pittsburgh.....</b>	<b>PA</b>
665 ..LB Foster .....	Pittsburgh.....	PA



- 666 ..ArcelorMittal ..... Steelton..... PA
- 667 ..ORX Rail ..... Tipton..... PA
- 668 ..North American Speciality Glass..... Trumbauersville. PA
- 669 ..Mitsubishi Electric Power Products Warrendale ..... PA
- 670 ..Bombardier Transportation..... West Mifflin..... PA
- 671 ..Wabco Locomotive Products ..... Wilmerding..... PA
- 672 ..Voith Turbo, Inc. .... York..... PA

## SOUTH CAROLINA

- 673 ..Ansaldo STS USA ..... Batesburg..... SC
- 674 ..Wabtec Passenger Transit ..... Duncan..... SC
- 675 ..Ellcon-National, Inc..... Greenville..... SC
- 676 ..Faiveley Transport, Inc..... Greenville ..... SC
- 677 ..Eaton Electrical..... Greenwood..... SC
- 678 ..HUBNER Manufacturing Corp..... Mount pleasant SC
- 679 ..Transtech Power Transfer Systems . Piedmont..... SC
- 680 ..MERMEC, Inc. .... West Columbia.. SC

## TENNESSEE

- 681 ..Young Touchstone ..... Jackson..... TN
- 682 ..Young Touchstone ..... Lexington..... TN

## TEXAS

- 683. GE Manufacturing Solutions..... Fort Worth ..... TX**
- 684 ..Maverick Technical Systems ..... Gladewater..... TX
- 685 ..Safety Vision..... Houston ..... TX
- 686 ..Toshiba International Corporation.. Houston ..... TX
- 687 ..Luminator Rail ..... Plano ..... TX

## UTAH

- 688 ..Rocky Mountain Composites ..... Spanish Fork..... UT

## VIRGINIA

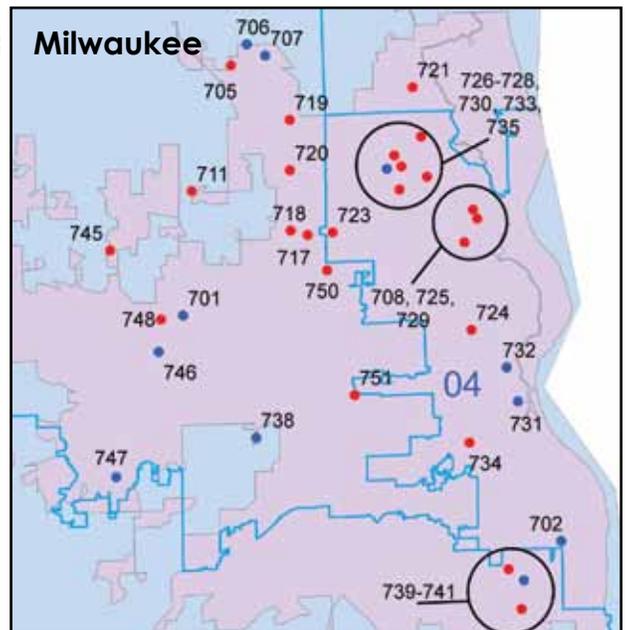
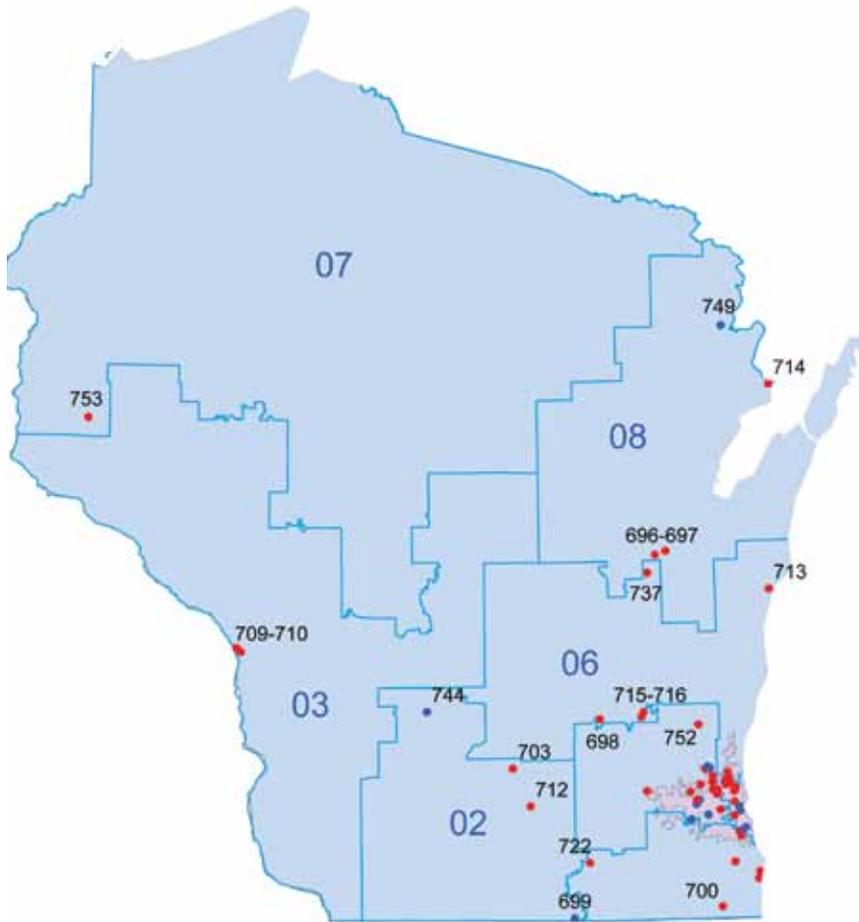
- 689 ..Vista Corporation..... Roanoke..... VA
- 690 ..Graham-White Manufacturing Co.... Salem ..... VA
- 691 ..Longwood Elastomers, Inc. .... Wytheville ..... VA

## WASHINGTON

- 692 ..North Pacific Communications ..... Camas..... WA
- 693 ..Talgo ..... Seattle ..... WA
- 694 ..LB Foster ..... Spokane ..... WA
- 695 ..Oregon Iron Works, Inc. .... Vancouver ..... WA

## WISCONSIN

- 696 ..L&S Electric ..... Appleton..... WI
- 697 ..Presto Geosystems ..... Appleton..... WI
- 698 ..Apache Stainless Equipment ..... Beaver Dam..... WI
- 699 ..Fairbanks Morse Engine ..... Beloit ..... WI
- 700 ..Anderson Manufacturing ..... Bristol..... WI
- 701 ..Engineering Specialists..... Brookfield..... WI
- 702 ..Milwaukee Composites ..... Cudahy ..... WI
- 703 ..E80 Plus Constructors ..... DeForest..... WI
- 704 ..Fiber-Tech ..... Franksville..... WI
- 705 ..Airgas Safety ..... Germantown..... WI
- 706 ..J.W. Speaker ..... Germantown..... WI
- 707 ..Sigma Coachair ..... Germantown..... WI



708 ..Sedia ..... Glendale..... WI  
 709 ..Compass Group..... La Crosse..... WI  
 710 ..J.F. Brennan Company, Inc..... La Crosse..... WI  
 711 ..D & B Tool & Manufacturing, Inc..... Lannon..... WI  
 712 ..Osmoste Railroad Services, Inc. .... Madison..... WI  
 713 ..Heavy Metal Fabricators..... Manitowoc..... WI  
 714 ..Silvan Industries..... Marinette ..... WI  
 715 ..Mayville Engineering ..... Mayville ..... WI  
 716 ..Metalcraft of Mayville, Inc..... Mayville ..... WI  
 717 ..Certified Scale..... Menomonee Falls.WI  
 718 ..Ingersoll Rand..... Menomonee Falls WI  
 719 ..Schunk Graphite Technology ..... Menomonee Falls WI  
 720 ..Universal Metrics..... Menomonee Falls WI  
 721 ..Sullivan Manufacturing ..... Mequon..... WI  
 722 ..R & M Manufacturing..... Milton ..... WI

723 ..Atlas Copco..... Milwaukee ..... WI  
 724 ..Capitol Stampings..... Milwaukee ..... WI  
 725 ..General Plastics ..... Milwaukee ..... WI  
 726 ..Kracor ..... Milwaukee ..... WI  
 727 ..Monarch Corporation..... Milwaukee ..... WI  
 728 ..Motive Equipment ..... Milwaukee ..... WI  
 729 ..Ntl Railway Equipment - Wheel Works. Milwaukee ..... WI  
 730 ..RES Manufacturing ..... Milwaukee ..... WI  
 731 ..Rockwell Automation..... Milwaukee ..... WI  
 732 ..Securitas ..... Milwaukee ..... WI  
 733 ..Super Steel Products ..... Milwaukee ..... WI  
 734 ..Technical Metal Specialties..... Milwaukee ..... WI  
 735 ..Wagner Collaborative Metal Works . Milwaukee ..... WI  
 737 ..Racine Railroad Products, Inc. .... Mt. Pleasant ..... WI  
 738 ..Bent Tubes..... Neenah..... WI

739 ..A&A Manufacturing .....	New Berlin .....	WI
740 ..AAA Sales & Engineering, Inc. ....	Oak Creek.....	WI
741 ..Milwaukee Composites .....	Oak Creek.....	WI
742 ..Nordco, Inc.....	Oak Creek.....	WI
743 ..Premold Corporation .....	Oconomowoc ....	WI
744 ..HFI Fluid Power Products .....	Racine.....	WI
745 ..Seats, Inc.....	Reedsburg .....	WI
746 ..Liberty Electric .....	Sussex.....	WI
747 ..Hatz Diesel of America, Inc.....	Waukesha .....	WI
748 ..Weldall.....	Waukesha .....	WI
749 ..Wieland Engineering & Mfg .....	Waukesha .....	WI
750 ..Wausaukee Composites .....	Wausaukee.....	WI
751 ..American Paper Packaging .....	Wauwatosa.....	WI
752 ..Northern Tool & Equipment .....	West Allis .....	WI
753 ..The Sign Shop of West Bend.....	West Bend.....	WI
754 ..OEM Fabricators, Inc.....	Woodville.....	WI

## WYOMING

755 ..Flanders Electric .....	Casper .....	WY
-------------------------------	--------------	----

1. Glen Weisbrod and Derek Cutler, "Economic Impact of Public Transportation Investment: 2014 Update," American Public Transportation Association, v, <http://www.apta.com/resources/reportsandpublications/Documents/Economic-Impact-Public-Transportation-Investment-APTA.pdf>.

2. *Ibid.*

3. MTA. "Facts and Figures." <http://web.mta.info/nyct/facts/ffsubway.htm>.

4. CTA. "Facts at a Glance." <http://www.transitchicago.com/about/facts.aspx>.

5. WMATA. "Metrorail Average Weekday Passenger Boardings." <http://www.wmata.com/pdfs/planning/2014%2010%20Year%20Historical%20Rail%20Ridership.pdf>.

6. Erik R. Pages and Brian Lombardozi. "The Emerging U.S. Rail Industry: Opportunities to support American manufacturing and spur regional development," National Institute of Standards and Technology, 2. <http://www.nist.gov/mep/upload/Rail-Report.pdf>

7. Allen Young, "Siemens responds to call to build high-speed rail," Sacramento Business Journal, Oct 24, 2014, <http://www.bizjournals.com/sacramento/news/2014/10/24/siemens-responds-to-call-to-build-high-speed-rail.html>.

8. Progressive Railroading. "CTA re-issues RFP for new rail cars," October 17, 2014, <http://www.progressiverailroading.com/mechanical/news/CTA-reissues-RFP-for-new-rail-cars--42279>.

9. Paul Meincke, "Metra Fare Hikes Come With \$2.4B, 10-Year Capital Plan Proposal," ABC7 Chicago, October 9, 2014, [http://abc7chicago.com/traffic/metra-fare-hikes-come-with-\\$24b-10-year-capital-plan-proposal/342337/](http://abc7chicago.com/traffic/metra-fare-hikes-come-with-$24b-10-year-capital-plan-proposal/342337/).

10. Progressive Railroading. "Passenger Rail at a Glance 2014: Transit agencies in New York." [http://www.progressiverailroading.com/passenger\\_rail/article/Progressive-Railroadings-Passenger-Rail-at-a-Glance-2014-Transit-agencies-in-New-York--42122](http://www.progressiverailroading.com/passenger_rail/article/Progressive-Railroadings-Passenger-Rail-at-a-Glance-2014-Transit-agencies-in-New-York--42122)

11. Pages and Lombardozi, 3.

12. Statista. "Value of U.S. railway rolling stock exports from 2004-2010." <http://www.statista.com/statistics/201244/value-of-us-railway-rolling-stock-exports-since-2004/>

13. Pages and Lombardozi, 11.

14. SSTI. "Per Capita VMT Drops for Ninth Straight Year." <http://www.ssti.us/2014/02/vmt-drops-ninth-year-dots-taking-notice/>

15. House Transportation Panel on Private Public Partnerships. [http://transportation.house.gov/uploadedfiles/p3\\_panel\\_report.pdf](http://transportation.house.gov/uploadedfiles/p3_panel_report.pdf)

---

# Passenger Rail & Transit Rail Manufacturing in the U.S.

For more information or to download  
copies of this report, please visit our websites.

**BLUEGREEN**<sup>®</sup>  
A L L I A N C E

1300 Godward Street NE, Suite 2625

Minneapolis, MN 55413

[www.BlueGreenAlliance.org](http://www.BlueGreenAlliance.org)

(612) 466-4479



**ENVIRONMENTAL LAW & POLICY CENTER**

35 E. Wacker Drive, Suite 1600

Chicago, IL 60601

[www.ELPC.org](http://www.ELPC.org)

(312) 673-6500

---