

Transportation and Warehousing in Maricopa County, Arizona

“On an average day [in 2008], some 43 million tons of goods valued at \$29 billion move on the nation’s interconnected network of ports, roads, rails and inland waterways.”

– US Chamber of Commerce

“Railroad iron is a magician’s rod, in its power to evoke the sleeping energies of land and water.”

– Ralph Waldo Emerson

“Our unity as a nation is sustained by free communication of thought and by easy transportation of people and goods...”

– Dwight D. Eisenhower, 1955

“The Interstate Highway System wound a key and then released a perpetual motion machine.”

– Janet F. Davidson and Michael S. Sweeney

“I can tell by the number of trucks on I-75 how the economy is doing.”

– Stephen Schrantz

Tolleson Union High School District career and technical education: *focusing on the future, today*

Transportation and Warehousing Overview

Have you ever stopped to think how you’re able to travel from your house to a ball game? Or about all the products on all the shelves in all the stores you’ve been in? What’s involved in your next trip, whether that’s across town or across the country? How all those things got on all those shelves in all those stores? In one way or another, the transportation and warehousing industry is involved in all of it.

All along the way, this complicated and multi-faceted industry is at work. Logistics is the management of transportation and warehousing so people and products get where they need to be when they need to be there, as safely as possible. Transportation is the movement of people or goods from one place to another, whether by land, sea, or air. Warehousing is the safe storage of goods during the journey from a place of origin to consumers.

Think about the planes, trains, automobiles, busses, and ships that move people and goods from one place to another. Think about the fresh produce in your neighborhood grocery store or the variety of paint choices in your favorite home improvement store. People and products are on the move every day because of a safe and efficient transportation and warehousing industry.

Transportation and Warehousing in the U.S.:

- Growthⁱ
 - Steady growth for 8 of the last 9 years
 - \$818 billion industry in 2006
 - \$1.0 trillion industry in 2013
- Full-time and part-time employmentⁱⁱ

- 5,316,500 in 2003
- 5,998,600 in 2013
- Incomeⁱⁱⁱ
 - Steady growth every year 2003 – 2014
 - \$209.8 billion in 2003
 - \$297.3 billion in 2014

Transportation and Warehousing in **Arizona**:

- Growth^{iv}
 - Steady growth for 10 of the last 11 years
 - \$5.1 billion industry in 2003
 - \$8.2 billion industry in 2013
- Full-time and part-time employment^v
 - 82,401 jobs in 2003
 - 97,662 jobs in 2013
- Income^{vi}
 - \$3.2 billion in 2003
 - \$4.7 billion in 2014

Transportation and Warehousing in **Maricopa County**:

- Growth (GDP)^{vii}
 - \$4.0 billion in 2003
 - \$6.3 billion in 2013
- Full-time and part-time employment^{viii}
 - 61,929 jobs in 2003
 - 71,880 jobs in 2013
- Income^{ix}
 - \$2.6 million in 2003
 - \$3.5 million in 2013

Top 5 transportation and warehousing occupations^x with annual salary by experience (PayScale.com)		
Occupation	Experience	
	Less than 5 years	5 – 10 years
Airline Pilot, Copilot, and Flight Engineer	\$44,759	\$67,102
Flight Attendant	\$35,794	\$42,038
Heavy and Tractor-Trailer Truck Driver	\$39,713	\$44,798
Light Truck or Delivery Services Driver	\$36,823	\$40,900
Freight, Stock, and Material Mover	\$24,128	\$29,983

Transportation and Warehousing Employers in Maricopa County

Major Transportation and Warehousing Companies in Maricopa County Arizona ^{xi}	
ADC/Circle K	Jacobson Logistics Company
Amazon.com	March 1
AutoZone	Macy's, Inc.
Checker O'Reilly	PetSmart
CVS	States Logistics
Dick's Sporting Goods	Swift Distributing
Flying Foods	Target
Home Depot	Walmart

Five Top Transportation and Warehousing Employers in Maricopa County

As of September 2014, **Jacobson Logistics Company** joined the international shipping company **Norbert Dentressangle** as a 3PL – or third party logistics – subsidiary. Jacobson employs more than 6,400 people and operates 32 million square feet of warehouse space on 134 sites across the U.S. It provides logistics, warehousing, distribution, packaging, and transportation services. Norbert Dentressangle's U.S. operation is comprised of 147 facilities, 40 million square feet of space, 1,200 trailers, and 350 tractor units. It provides multi-modal land, sea, and air transportation as well as full service supply chain logistics.^{xii}

The **Schwann Food Company** is a multi-billion dollar private company engaged in the foodservice industry. It employs approximately 14,000 people across North America. Begun as a dairy, Schwann Food Company based its national growth on the home delivery of one signature product: ice cream. From those roots in 1948 Minnesota, Schwann Food Company now reaches across the U.S. delivering a variety of frozen foods to households, restaurants, and grocery stores.^{xiii}

Swift Transportation Co. in Phoenix, Arizona is part of a nationwide network comprised of more than 40 terminals and operating almost 18,000 trucks. It covers Canada and the U.S., and maintains services at all Mexican border crossings. Swift provides logistics and convention services as well as dry van, flatbed, heavy haul, intermodal, and refrigerated transportation services.^{xiv}

Reddaway is a transportation and logistics company that originated from and operates primarily on the West Coast, but also provides time-sensitive inter-regional services across the U.S. and into Canada. From the Phoenix, Arizona operation, Reddaway offers primarily next-day, intra-metro, and (through national partners Holland and New Penn) inter-regional services across the country.^{xv}

The **United Parcel Service (UPS) Distribution Center** in Mesa, Arizona opened in late 2004/early 2005. It is a 59,000 square foot facility on 17.4 acres. At capacity, it employs approximately 300 people and includes space for 128 delivery trucks.^{xvi}

Key Occupations in the Industry

Airline Pilot, Copilot, and Flight Engineer¹

What Airline and Commercial Pilots Do

Airline and commercial pilots fly and navigate airplanes, helicopters, and other aircraft. Airline pilots fly for airlines that transport people and cargo on a fixed schedule. Commercial pilots fly aircraft for other reasons, such as charter flights, rescue operations, firefighting, aerial photography, and aerial application, also known as crop dusting.

Work Environment

Pilots work primarily in aircraft. They may spend a considerable amount of time away from home because of overnight layovers. Many pilots have variable schedules.

How to Become an Airline or Commercial Pilot

Most airline pilots begin their careers as commercial pilots. Commercial pilots typically need a high school diploma or equivalent. Airline pilots typically need a bachelor's degree. All pilots who are paid to fly must have at least a commercial pilot's license from the Federal Aviation Administration (FAA). Additionally, airline pilots must have the Airline Transport Pilot (ATP) certificate. Pilots may need instrument and other ratings.

Flight Attendant²

What Flight Attendants Do

Flight attendants provide personal services to ensure the safety and comfort of airline passengers.

Work Environment

Flight attendants work evenings, weekends, and holidays, because airlines operate every day and have overnight flights. Attendants work in aircraft and may be away from home 2 to 3 nights per week. Most have variable schedules.

How to Become a Flight Attendant

Flight attendants receive initial training from their employer and must be certified by the Federal Aviation Administration (FAA). Although flight attendants must have at least a high school diploma or the equivalent, some airlines prefer to hire applicants who have some college. Prospective flight attendants typically need previous work experience in customer service. Applicants must be at least 18 years old, eligible to work in the United States, have a valid passport, and pass a background check.

Heavy & Tractor-Trailer Truck Driver³

What Heavy and Tractor-trailer Truck Drivers Do

Heavy and tractor-trailer truck drivers transport goods from one location to another. Most tractor-trailer drivers are long-haul drivers and operate trucks whose gross vehicle weight (GVW) capacity—that is, the combined weight of the vehicle, passengers, and cargo—exceeds 26,000 pounds. These drivers deliver goods over intercity routes, sometimes spanning several states.

Work Environment

Working as a long-haul truck driver is a major lifestyle choice because these drivers can be away from home for days or weeks at a time.

How to Become a Heavy or Tractor-trailer Truck Driver

Heavy and tractor-trailer truck drivers usually have a high school diploma and attend a professional truck-driving school. They must have a commercial driver's license (CDL).

¹ U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: Airline and Commercial Pilots (<http://www.bls.gov/ooh/transportation-and-material-moving/airline-and-commercial-pilots.htm>)

² U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: Flight Attendants (<http://www.bls.gov/ooh/transportation-and-material-moving/flight-attendants.htm>)

³ U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: Heavy and Tractor-trailer Truck Drivers (<http://www.bls.gov/ooh/transportation-and-material-moving/heavy-and-tractor-trailer-truck-drivers.htm>)

Light Truck or Delivery Services Driver⁴

What Delivery Truck Drivers and Driver/Sales Workers Do

Delivery truck drivers and driver/sales workers pick up, transport, and drop off packages and small shipments within a local region or urban area. They drive trucks with a gross vehicle weight (GVW)—the combined weight of the vehicle, passengers, and cargo—of 26,000 pounds or less. Most of the time, delivery truck drivers transport merchandise from a distribution center to businesses and households.

Work Environment

Delivery truck drivers and driver/sales workers have a physically demanding job. Driving a truck for long periods of time can be tiring. When loading and unloading cargo, drivers do a lot of lifting, carrying, and walking.

How to Become a Delivery Truck Driver or Driver/Sales Worker

Delivery truck drivers and driver/sales workers typically enter their occupations with a high school diploma or equivalent. They undergo 1 month or less of on-the-job training. They must have a driver's license from the state in which they work.

Freight, Stock, & Material Mover and Packer & Packager⁵

What Hand Laborers and Material Movers Do

Hand laborers and material movers transport objects without using machines. Some workers move freight, stock, or other materials around in storage facilities; others clean vehicles; some pick up unwanted household goods; and still others pack materials for moving.

Work Environment

Most people in these occupations work full time. Because materials are shipped around the clock, some workers, especially those in warehousing, work overnight shifts.

How to Become a Hand Laborer or Material Mover

Generally, hand laborers and material movers need no work experience or minimum level of education. Employers require only that applicants be physically able to do the work.

Resources for More Information

Jacobson Logistics/Norbert Dentressangle: www.jacobsonco.com and www.norbert-dentressangle.us

Schwann Food Company: www.theschwanfoodcompany.com

Swift Transportation, LLC: www.swifttrans.com

Reddaway Trucking: www.reddawayregional.com

United Parcel Service (UPS): www.ups.com

U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: www.bls.gov/ooh

O*NET Online: www.onetonline.org

Career One Stop: www.careeronestop.org

ⁱ U. S. Gross Domestic Product Gross Output by Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=51&step=51&isuri=1&5114=a&5102=15>)

ⁱⁱ U.S. Full-Time and Part-Time Employment by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=11&7023=7&7033=-1&7024=naics&7025=10&7026=00998,00999&7027=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=711&7028=-1&7031=10&7040=-1&7083=levels&7029=33&7090=70>)

⁴ U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: Delivery Truck Driver and Driver/Sales Workers ()

⁵ U.S. Bureau of Labor Statistics *Occupational Outlook Handbook*: Hand Laborers and Material Movers (<http://www.bls.gov/ooh/transportation-and-material-moving/hand-laborers-and-material-movers.htm>)

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- iii Compensation of Employees by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=50&7023=0&7033=-1&7024=naics&7025=0&7026=00000&7027=2014,2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=450&7028=-1&7031=0&7040=-1&7083=levels&7029=51&7090=70>)
- iv Arizona Gross Domestic Product, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=10&isuri=1&7003=200&7035=-1&7004=naics&7005=-1&7006=04000&7036=-1&7001=1200&7002=1&7090=70&7007=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7093=level> s)
- v Arizona Full-Time and Part-Time Employment by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=11&7023=7&7033=-1&7024=naics&7025=10&7026=04998,04999&7027=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=711&7028=-1&7031=10&7040=-1&7083=levels&7029=33&7090=70>)
- vi Arizona Compensation of Employees by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=50&7023=0&7033=-1&7024=naics&7025=0&7026=04000&7027=2014,2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=450&7028=-1&7031=0&7040=-1&7083=levels&7029=51&7090=70>)
- vii Phoenix-Mesa-Scottsdale Metropolitan Statistical Area Gross Domestic Product, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=10&isuri=1&7003=200&7035=-1&7004=naics&7005=-1&7006=38060&7036=-1&7001=2200&7002=2&7090=70&7007=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7093=level> s)
- viii Maricopa County Full-Time and Part-Time Employment by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=11&7023=7&7033=-1&7024=naics&7025=4&7026=04013&7027=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=711&7028=-1&7031=04000&7040=-1&7083=levels&7029=33&7090=70>)
- ix Maricopa County Compensation of Employees by NAICS Industry, U. S. Department of Commerce Bureau of Economic Analysis (<http://www.bea.gov/iTable/iTableHtml.cfm?reqid=70&step=30&isuri=1&7022=54&7023=7&7024=naics&7033=-1&7025=4&7026=04013&7027=2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003&7001=754&7028=-1&7031=04000&7040=-1&7083=levels&7029=55&7090=70>)
- x Highest Ranking Occupations: Top 20 Occupations (5-Digit in Maricopa County, 2013-2014), Economic Modeling Specialists International (EMSI)
- xi Greater Phoenix Economic Council, Key Industries “Manufacturing and Logistics” brochure (http://issuu.com/greaterphoenix/docs/2012_manufacturing_nc_single?e=3673308/1599890)
- xii Jacobson Logistics website pages: <http://www.jacobsonco.com/> and Norbert-Dentressangle website pages: <http://www.norbert-dentressangle.us/Norbert-Dentressangle-At-a-Glance/USA>
- xiii Schwann Food Company website pages: <http://www.theschwannfoodcompany.com/default.htm>
- xiv Swift Transportation website pages: <http://www.swifttrans.com/>, <http://www.swifttrans.com/who-we-are/history>, and <http://www.swifttrans.com/what-we-do>
- xv Reddaway Transportation website pages: http://public.reddawayregional.com/Content/ServiceMaps/RETL/retl_PHX.pdf, <http://www.yrcregional.com//services/services.shtml>
- xvi “UPS Distribution Center Set for Mesa,” *Phoenix Business Journal*, April 18, 2003 (<http://www.bizjournals.com/phoenix/stories/2003/04/14/daily58.html>)