



NATIONAL ASPHALT PAVEMENT ASSOCIATION

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FAST FACTS

The Association

- The National Asphalt Pavement Association represents the interests of the asphalt pavement producer and paving contractor on the national level.
- The Association, which counts more than 1,100 companies as its Members, was founded in 1955.
- NAPA supports an active research program designed to answer questions about environmental issues and to improve the quality of asphalt pavements and paving techniques used in the construction of roads, streets, highways, parking lots, airports, and environmental and recreational facilities.

Asphalt Pavement

- Asphalt pavement refers to any paved road surfaced with asphalt.
- Asphalt pavement material is a combination of approximately 95 percent stone, sand, or gravel bound together by asphalt cement, which is derived from crude oil.
- Asphalt pavement material is produced at a mixing facility known as an asphalt plant where the aggregates and asphalt cement are heated, mixed according to precise engineering formulas, and loaded into trucks for transport to the paving site.

Scope and Scale of the Industry

- The U.S. has about 3,500 active asphalt production sites that produced about 400 million metric tons in 2009.
- There are over 14,000 paving contractor companies involved in the laying of asphalt in the United States.
- In 2007 there were 200,000 workers employed in the extraction, processing, and manufacture of asphalt pavement materials. There were an additional 400,000 workers who transported, paved, compacted, or played a role in constructing a highway or road.

The Asphalt Pavement Market

- Of the 2.6 million miles of paved roads in the US, over 94 percent are paved with asphalt.
- There is approximately 18 billion tons of asphalt pavement on America's roads.
- Between 85 and 90 percent of all runways at the nation's 3,364 commercial airports are surfaced with asphalt pavement.
- Over 90 percent of the parking areas are surfaced with asphalt pavement.
- In 2007, publicly funded highway programs made up about 65 percent of the asphalt pavement market, with residential and commercial construction making up 35 percent.
- Total capital spending on highways, roads and bridges by all levels of government (federal/state/local) totals about \$80 billion annually, with the federally funded portion at about 54 percent of the total.
- Approximately \$4 billion per year from all sources (Airport Improvement Program grants and passenger facility charges) is spent on airfield runways, taxiways and aprons.
- Every \$1 billion invested in highways creates or sustains 28,500 jobs, of which one-third are direct construction positions, one-sixth are supplier positions, and the rest are positions created through spending by business owners and workers filling those positions.
- Every \$1 billion spent on transportation infrastructure, assuming a typical mix of highways, transit, and airports, will result in the production of 4 - 5 million tons of asphalt pavement material.
- Every \$1 billion spent on water and environmental infrastructure will result in the production of about 300,000 tons of asphalt pavement material.
- Every \$1 billion spent on building infrastructure including schools, military, and medical facilities will result in the production of about 200,000 tons of asphalt pavement material.

Asphalt Pavement Sustainability

- Asphalt is 100 percent recyclable.
- Asphalt is the most reused and recycled material in America. About 100 million tons of old pavements are reclaimed every year, with about 60 million tons reused in new

asphalt mixes, and some 40 million tons recycled in other pavement-related applications, such as aggregate road base.

- Emissions from asphalt plants are low and well controlled resulting in the EPA declaring that asphalt plants are not a major source of hazardous air pollutants. Total emissions from asphalt operations decreased by 97 percent from 1970 to 1999, while production of asphalt pavement material increased by 250 percent.
- The asphalt pavement industry is the largest consumer of recycled oil offsetting the demand for virgin fuel and ensuring that used oil does not end up in streams and landfills. Of the 700 million gallons of recycled oil generated in the United States annually, about 300 million gallons are used to manufacture asphalt pavement.

Versatility of Asphalt Pavement

- There are a wide variety of uses for asphalt pavement besides roadways and airfields. Other uses include:

Railroads – Asphalt Pavement Ballast Underlayment

Drainage Facilities – Ditches and Gutters, Curbs, Berms, Slope Protection, Porous/Dense Graded Pavements for Storm Water Treatment

Erosion Control – Jetties, Grout for Jetties, Storm Water Management Ponds

Farm – Barn Yards, Feed Lots, Stable Floors, Silage Storage

Water Supply Protection – Reservoir Linings, Pond Linings, Dam Faces, Canal Linings, Sewage Lagoons, Leachate Facilities

Industrial – Dock Surfaces, Building Floors, Material Storage Areas

Recreation – Boat Ramps, Athletic Fields, Bikeways, Golf Cart Trails, Tennis Courts, Skateboard and Roller Blade Facilities, Recreational Trails and Walkways, Running Tracks

Motor Sports – Race Tracks