

America's Infrastructure: Where Are We Headed?

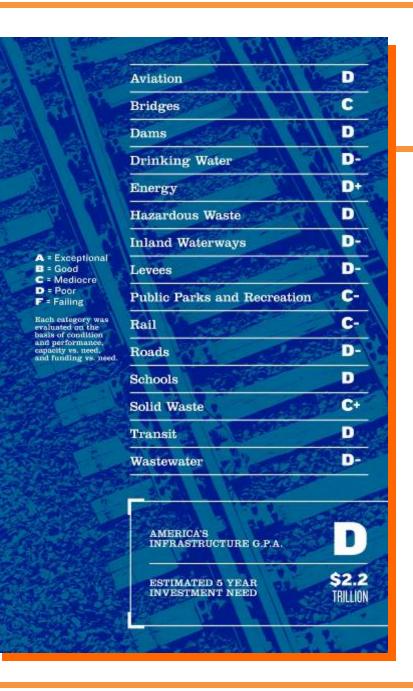
Kristina L. Swallow, P.E.

ASCE/AAAS Congressional Science and Engineering Fellow











Drinking Water Wastewater

• Leaking water pipes lose 7 billion gallons a day

 Billions of gallons of untreated wastewater are discharged each year from aging systems





Solid Waste Hazardous Waste

 U.S. produces 254 million tons of solid waste a year 188 cities with brownfields sites awaiting cleanup/ redevelopment



Levees Dams

D-D

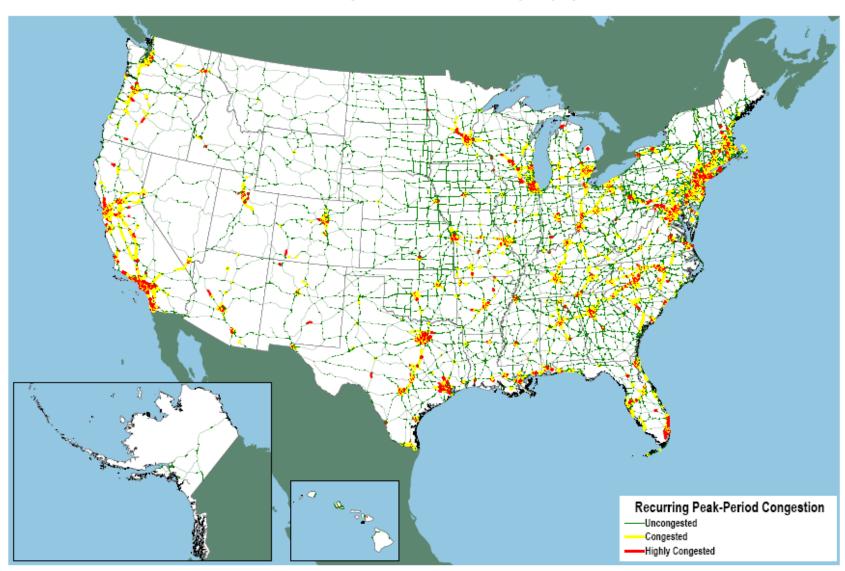
- More than 85% of nation's 100,000 miles of levees locally owned and maintained
 - U.S. has more than 85,000 dams







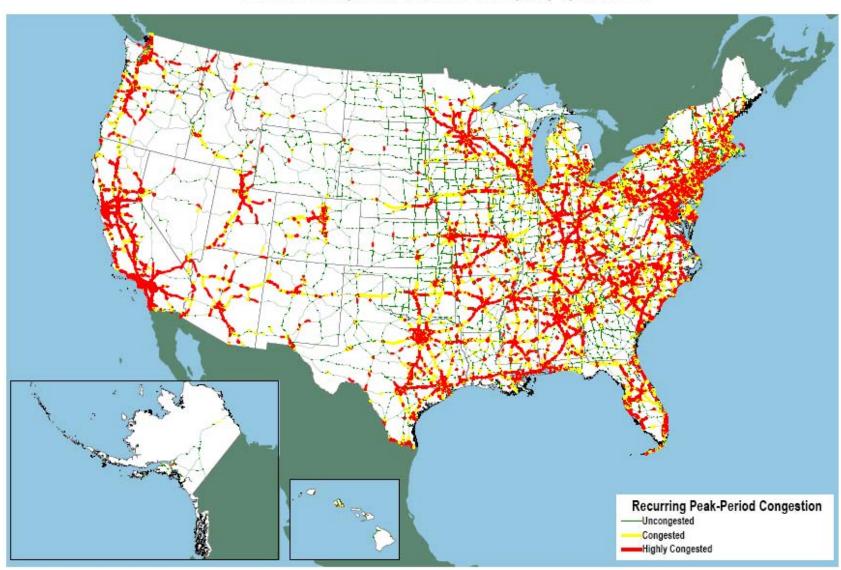




Peak-Period Congestion on the National Highway System: 2002

Note: Highly congested segments are stop-and-go conditions with volume/service flow ratios greater than 0.95. Congested segments have reduced traffic speeds with volume/service flow ratios between 0.75 and 0.95.

Source: U. S. Department of Transportation, Federal Highway Administration, Office of Highway Policy Information, Highway Performance Monitoring System, and Office of Freight Management and Operations, Freight Analysis Framework, version 2.2, 2007



Peak-Period Congestion on the National Highway System: 2035

Note: Highly congested segments are stop-and-go conditions with volume/service flow ratios greater than 0.95. Congested segments have reduced traffic speeds with volume/service flow ratios between 0.75 and 0.95.

Source: U. S. Department of Transportation, Federal Highway Administration, Office of Highway Policy Information, Highway Performance Monitoring System, and Office of Freight Management and Operations, Freight Analysis Framework, version 2.2, 2007

2009***** for ****



Roads Bridges

D-C

- More than 4 billion hours a year stuck in traffic; cost = \$78 billion
- 1 in 4 bridges structurally deficient or functionally obsolete

Transit









Inland Waterways



 12% of locks built in the 1800s; additional 36% are more than 60 years old





Rail



Changes in demand for rail service have created bottlenecks





Public Parks Schools

C-D

• Parkland acreage is declining

 No new school buildings condition data in more than a decade



2009 ***** for ****

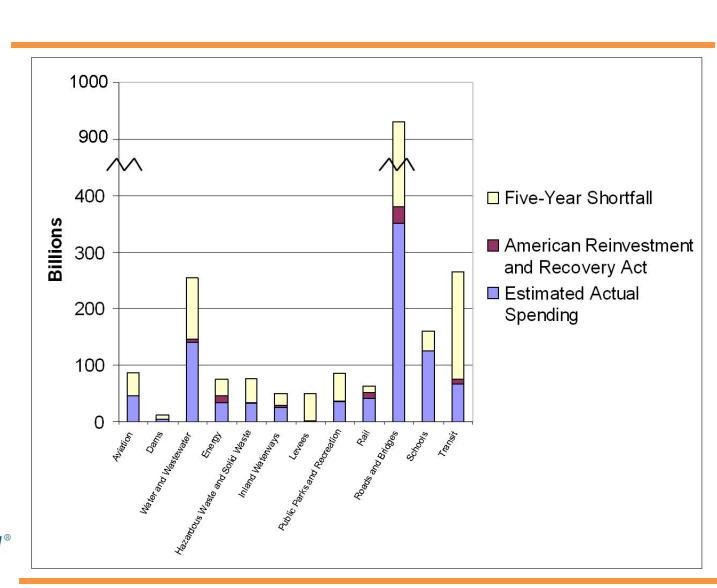


Energy



• Electricity demand has grown by 25% since 1990





Estimated Investment Needs



ASCE's Five Key Solutions

- 1. Increase federal leadership
- 2. Promote sustainability & resilience
- **3. Develop** national, regional and state infrastructure plans
- 4. Address life-cycle costs
- 5. Increase & improve investment from all stakeholders





Solid Waste Success















What can you do?

- Learn more
- Join online community
 - Our Failing
 Infrastructure blog
 - Facebook
 - Twitter
- Contact elected officials
- Letter to the editor



Do it all at



www.infrastructurereportcard.org



www.infrastructurereportcard.org

