ASCE
American Society of Civil Engineers

1998 Report Card for America's Infrastructure

Subject	Grade	Comments
Roads	D-	More than half (59 percent) of our roadways are in poor, mediocre or fair condition. More than 70 percent of peak-hour traffic occurs in congested conditions. It will cost $263 billion to eliminate the backlog of needs and maintain repair levels. Another $94 billion is needed for modest improvement -- a $357 billion total.
Bridges	C-	Nearly one of every three bridges (31.4 percent) is rated structurally deficient or functionally obsolete. It will require $80 billion to eliminate the current backlog of bridge deficiencies and maintain repair levels.
Mass Transit	C	Twenty percent of buses, 23 percent of rail vehicles, and 38 percent of rural and specialized vehicles are in deficient condition. Twenty-one percent of rail track requires improvement. Forty-eight percent of rail maintenance buildings, 65 percent of rail yards and 46 percent of signals and communication equipment are in fair or poor condition. The investment needed to maintain conditions is $39 billion. It would take up to $72 billion to improve conditions.
Aviation	C-	There are 22 airports that are seriously congested. Passenger enplanements are expected to climb 3.9 percent annually to 827.1 million in 2008. At current capacity, this growth will lead to gridlock by 2004 or 2005. Estimates for capital investment needs range from $40-60 billion in the next five years to meet design requirements and expand capacity to meet demand.
Schools	F	One-third of all schools need extensive repair or replacement. Nearly 60 percent of schools have at least one major building problem, and more than half have inadequate environmental conditions. Forty-six percent lack basic wiring to support computer systems. It will cost about $112 billion to repair, renovate and modernize our schools. Another $60 billion in new construction is needed to accommodate the 3 million new students expected in the next decade.
Drinking Water	D	More than 16,000 community water systems (29 percent) did not comply with the Safe Drinking Water Act standards in 1993. The total infrastructure need remains large -- $138.4 billion. More than $76.8 billion of that is needed right now to protect public health.
Wastewater	D+	Today, 60 percent of our rivers and lakes are fishable and swimmable. There remain an estimated 300,000 to 400,000 contaminated groundwater sites. America needs to invest roughly $140 billion over the next 20 years in its wastewater treatment systems. An additional 2,000 plants may be necessary by the year 2016.
Dams	D	There are 2,100 regulated dams that are considered unsafe. Every state has at least one high-hazard dam, which upon failure would cause significant loss of life and property. There were more than 200 documented dam failures across the nation in the past few years. It would cost about $1 billion to rehabilitate documented unsafe dams.
Solid Waste	C-	Total non-hazardous municipal solid waste will increase from 208 to 218 million tons annually by the year 2000, even though the per capita waste generation rate will decrease from 1,606 to 1,570 pounds per person per year. Total expenditures for managing non-hazardous municipal solid waste in 1991 were $18 billion and are expected to reach $75 billion by the year 2000.
Hazardous Waste	D-	More than 530 million tons of municipal and industrial hazardous waste is generated in the U.S. each year. Since 1980, only 423 (32 percent) of the 1,200 Superfund sites on the National Priorities List have been cleaned up. The NPL is expected to grow to 2,000 in the next several years. The price tag for Superfund and related clean up programs is an estimated $750 billion and could rise to $1 trillion over the next 30 years.

America's Infrastructure G.P.A. = D
Total Investment Needs = $1.3 Trillion

A = Exceptional B = Good C = Mediocre D = Poor F = Inadequate	Each category was evaluated on the basis of condition and performance, capacity vs. need, and funding vs. need.

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