INDEX

INDEX

American High Speed Rail Corp., 11, 57, 61, 62, 63, 64,	General Electric Co., 90, 91
68	General Motors Corp., 91
Amtrak (National Railroad Passenger Corp.), 7, 10, 11,	General Rail Equipment Index, 90
35, 45, 46, 52, 53, 54, 60, 61, 63, 65, 84, 88, 91,	
92	high-speed passenger rail:
Arthur D. Little Co., 62	Atlantic City-Philadelphia, 58, 68
Atchison, Topeka, and Sante Fe Railroad, 62	Buffalo-Albany, 58
Atlanta, Ga., 48	Chicago-Detroit, 58, 65
	Cleveland-Akron, 67
Bank of Tokyo Trust Co., 62	Cleveland-Cincinnati, 67
Bechtel Corp., 63	corridor fact sheet, 59
benefits, 8-10, 11	cost options, comparison of, 5, 30, 62
Boeing-Vertol, 90	current corridor activity, 57
Bombardier Inc., 90	Dallas-Houston, 68
Boston, Mass., 30, 33	economic feasibility, 29-41
Boyd, Alan, 61	capital investment costs, 39
British Railways (BR), 18, 19, 20, 35, 49, 94	comfort, 35
British Rail Engineering Ltd., 94	convenience, 35
Budd Co., 7, 63, 90	cost analysis, 39
Buffalo, N. Y., 16	effect of distance, 33
	evaluating future demand, 38
California, 5, 9, 48, 51, 57, 61, 62, 63, 92	fares, 35
California State Department of Transportation, 61	frequency and speed, 33
Chicago, 111., 7, 48, 67, 68	intercity travel market, 32
Clayton, W. Graham, Jr., 63, 90	market requirements, 33
Colorado, 60	market sectors, 37
Congress:	market sectors, 37 market size, 30, 31
Congressional Budget Office, 10, 47, 53 General Accounting Office, 88	operating costs, 40
	trip time, 33
House Committee on Appropriations, Subcommittee	equipment and track options, 5, 15, 20, 21
on Transportation, 3	benefits, 8-10, 11
House Committee on Energy and Commerce, 3	characteristics, 6
Office of Technology Assessment (OTA), 3, 10, 61,	costs, 10-11, 18, 30
62, 83, 92	environmental impact of noise, 11
Senate Committee on Commerce, Science, and	public policy, 8
Transportation, 3	technology options, 5
congressional role, 11-12	uncertainties, 11
Consumer Price Index, 90	foreign experience and systems:
	Canada, s, 15, 17, 66
Denver, Colo., 48	LRC train, 20
Deutches Bundesbahn (DB), 18, 19, 76	new equipment, 20
	France, 3, 4, 5, 10, 15, 45, 73
environmental concerns, 51	Paris-Lyon TGV, 3, 4, 5, 6, 9, 17, 18, 24, 25, 26,
	30, 49, 51, 57, 66
Federal Railroad Administration (FRA), 49, 73	population density, 31
First Boston Corp., 62	Great Britain, 3, 4, 5, 9, 10, 15, 17, 18
Florida, 5, 9, 51, 57, 64	advanced passenger train (APT), 20
Florida State Department of Transportation, 64	high-speed trains (HSTs), 19, 20, 57
Fluor Corp., 62	new equipment, 20
French National Railways (SNCF), 16, 17, 18, 19, 24,	population density, 31
25, 26, 35, 40, 49	TRANSMARK, 65
funding:	West Coast Main Line, 30
Federal, 53	Japan, 3, 5, 7, 15, 17, 45, 64
private, 54	environmental impact of noise, 11, 51
State, 53	maglev development, 16, 71, 73, 74, 76
	· Ø · · · · · · · · · · · · · · · · · ·

```
population densities, 6, 31
                                                               Northeast Corridor (NEC), 5, 8, 9, 10, 15, 16, 39, 40,
      Tokyo-Osaka, 3, 4, 9, 21, 22, 30, 46
                                                                     45, 48, 49, 51, 60, 61, 66, 88
    West Germany, 5, 7, 11, 15, 18, 64
                                                               Northeast Corridor Improvement Project (NECIP), 66
      Emsland Test Facility, 51, 71, 78
                                                               Northeast Corridor Transportation Project, 60
      maglev development, 16, 57, 71, 73, 75, 76, 78
  history, 60
                                                               Ohio, 5, 51, 57, 58, 65, 66, 67
  Las Vegas-Los Angeles, 7, 57, 63
                                                               Ohio Association of Railroad Passengers, 67
  Los Angeles-San Diego, 57, 60, 61, 62, 63
  Milwaukee-Chicago, 57, 68
                                                               Pennsylvania, 5, 57, 58, 65, 67, 90
  Montreal-New York, 65
                                                               Pennsylvania Legislature, 67
  proposals, 61
                                                               Philadelphia, Pa., 35
  propulsion systems, 5, 15
                                                               population density, 31
    diesel, 16, 17
                                                               power-conditioning unit (PCU), 74
    electric, 16, 17
                                                               President's Conference Committee (PCC), 86
    gas turbine, 16
                                                               public benefits and costs, 8-11
    linear motors, 16
                                                              public policy, question for, 8
  speed limits, 49
  Tampa-Orlando-Miami, 64
                                                              railcar manufacturing, x, 7, 83-95
history, 60-61
                                                                 current industrial base, 90
                                                                 European Economic Community (EEC), 93, 95
Illinois, 57, 65
                                                                 Federal transit commitments, 89
Indiana, 65, 90, 91, 92
                                                                 foreign passenger railcar manufacturing, 92
International Transportation Exhibition, 75
                                                                 innovation matrix for railcars, 91
Interstate Commerce Commission, 88
                                                                 institutional shifts, 86
                                                                Japan, 93
Japanese National Railways (JNR), 18, 21, 22, 23, 32,
                                                                 long-term trend for passenger car use, 86
      40, 62, 71, 75, 76, 93
                                                                 projected demand, 91
Japanese National Railroad Technology Corp., 62, 64,
                                                                 prospects for a U.S. industry, 95
                                                                 railroad cars delivered from U.S. manufacturers, 87
                                                                 trends in travel demand, 84
legislation:
                                                              R. J. Barber Associates, 88
  High-Speed Ground Transportation Act of 1965
      (HSGTA), 60, 88
  National Railroad Passenger Act (NRPA), 60
                                                              Shinkansen "bullet train," 3, 4, 6, 9, 16, 17, 22, 23, 30,
  Rail Passenger Service Act, 46, 52, 61
  Urban Mass Transportation Act (UMTA), 88
                                                              social and institutional factors:
linear motors, 16, 74, 75
                                                                alleviating airport congestion, 48
                                                                Amtrak, 52
magnetic levitation (maglev) technology, ix, 3, 5, 6, 7,
                                                                energy savings, 46
      9, 11, 15, 16, 40, 45, 51, 57, 60
                                                                environmental concerns, 51
  comparison with other modes, 72
                                                                 increased mobility and transport alternatives, 46
  concerns, 72
                                                                 local governments, 52
  development, 75
                                                                passenger safety and comfort, 49
  economic feasibility, 72
                                                                private railroad companies, 52
  propulsion, 73, 74
                                                                promotion of tourism, 48
  technology status, 71
                                                                public sentiment, 46
major findings, 3-8
                                                                regional development, 48
Michigan, 5, 57, 65
                                                                safety and strength requirements of passenger equip-
Michigan Department of Transportation, 58, 65
Midwest High-Speed Rail Compact, 5, 57, 65
                                                                    ment, 50
                                                                safety certification of high-speed rail technology for
Milrite Commission, 67
                                                                    operational use, 50
                                                                safety issues at the highway/rail interface (grade
National Science Foundation (NSF), 73
                                                                    crossings), 50
National Travel Survey, 30
                                                              Southern Pacific Railroad, 62
N. D. Lea Associates, 88, 91
                                                              Southwest Coast Corridor (SWC), 60, 63
Nevada, 5, 51, 57, 63
New Haven Railroad, 88
New Jersey, 68
                                                              Texas, 5, 57, 58, 68
New York, 5, 49, 50, 52, 57, 65, 66, 92
                                                              Texas Railroad Transportation Co., 68
New York City, 7, 30, 35, 48, 65, 66, 86
                                                              tilt-body equipment, 5, 15, 18, 20, 40, 50
```

Transportation Systems and Market Research Ltd. (TRANSMARK), 65
Transrapid International, 63
Transtech International, Inc., 63

U.S. Department of Transportation, 7, 11, 46, 57, 60, 61, 66
High Speed Ground Transportation Alternatives Study, 60

Vermont, 5, 57

Washington, D. C., 30, 35, 61, 66 Washington Metropolitan Area Transit Authority, 91 West German Railways (DB), 76 Wisconsin, 5, 57, 68 World Bank, 21