

Appendix C: Hard Costs Impacts by States

Appendix C-1

Impacts of Construction (**Hard Costs**) on State Economies (**Office**), 2016

State	Total Output (In Billions of Dollars)	Personal Earnings (In Billions of Dollars)	Jobs Supported
Alabama	0.2663	0.0872	2,120
Alaska	0.0451	0.0159	321
Arizona	0.7817	0.2636	6,293
Arkansas	0.1948	0.0627	1,552
California	6.9996	2.3166	47,915
Colorado	1.2653	0.4228	9,830
Connecticut	0.0441	0.0142	279
Delaware	0.0685	0.0187	413
District of Columbia	1.4263	0.1082	1,975
Florida	2.1259	0.7156	17,978
Georgia	3.9390	1.2885	31,114
Hawaii	0.1195	0.0413	885
Idaho	0.1883	0.0631	1,592
Illinois	1.9325	0.6083	12,784
Indiana	0.4668	0.1469	3,407
Iowa	0.3708	0.1191	2,769
Kansas	0.7606	0.2253	5,323
Kentucky	0.2611	0.0798	1,977
Louisiana	0.1987	0.0669	1,450
Maine	0.0950	0.0318	796
Maryland	1.2991	0.4112	8,493
Massachusetts	2.7123	0.8561	16,796
Michigan	2.4554	0.8153	19,667
Minnesota	0.4019	0.1285	2,824
Mississippi	0.0390	0.0127	315
Missouri	0.9950	0.3032	7,177
Montana	0.0835	0.0284	719
Nebraska	0.1470	0.0480	1,087
Nevada	1.0414	0.3466	7,541
New Hampshire	0.0216	0.0066	140
New Jersey	0.4815	0.1486	3,053
New Mexico	0.1194	0.0404	1,004
New York	17.8994	5.5680	111,238
North Carolina	2.7169	0.8781	22,032
North Dakota	0.1392	0.0440	900
Ohio	1.5296	0.4834	10,961
Oklahoma	0.5250	0.1750	3,990
Oregon	1.8530	0.5841	13,802
Pennsylvania	1.0222	0.3185	6,712
Rhode Island	0.2157	0.0631	1,350
South Carolina	0.2172	0.0698	1,779
South Dakota	0.1387	0.0461	1,152
Tennessee	1.1438	0.3584	7,973
Texas	9.9154	3.2495	68,881
Utah	0.3873	0.1274	3,020
Vermont	0.0037	0.0012	30
Virginia	2.0135	0.6293	14,572
Washington	1.8912	0.6164	12,826
West Virginia	0.0225	0.0069	160
Wisconsin	1.0461	0.3471	8,106
Wyoming	0.0109	0.0036	80
State Totals	74.0384	23.4118	509,152
Interstate Spillovers	32.5022	10.3041	242,519
U.S. Totals	106.5406	33.7159	751,671

Sources: GMU Schar Fuller; Dodge Data & Analytics; BEA; NAIOP

Note: Appendices include data for the District of Columbia, resulting in 51 states.

Appendix C-2

Impacts of Construction (Hard Costs) on State Economies (Industrial), 2016

State	Total Output (In Billions of Dollars)	Personal Earnings (In Billions of Dollars)	Jobs Supported
Alabama	0.9012	0.2949	7,172
Alaska	–	–	–
Arizona	0.0570	0.0192	459
Arkansas	0.1984	0.0639	1,581
California	0.7537	0.2495	5,160
Colorado	0.1564	0.0522	1,215
Connecticut	0.2676	0.0859	1,694
Delaware	0.0004	0.0001	2
District of Columbia	–	–	–
Florida	0.3721	0.1252	3,146
Georgia	0.0640	0.0209	506
Hawaii	0.0004	0.0001	3
Idaho	0.0908	0.0304	768
Illinois	0.2448	0.0770	1,619
Indiana	0.1603	0.0504	1,169
Iowa	0.2580	0.0829	1,927
Kansas	0.0844	0.0250	591
Kentucky	1.1267	0.3443	8,530
Louisiana	10.5650	3.5580	77,069
Maine	–	–	–
Maryland	0.0865	0.0274	566
Massachusetts	0.3449	0.1089	2,136
Michigan	3.2031	1.0635	25,655
Minnesota	0.3895	0.1245	2,737
Mississippi	0.1165	0.0379	941
Missouri	0.3260	0.0993	2,351
Montana	–	–	–
Nebraska	0.9193	0.3000	6,800
Nevada	0.0179	0.0060	130
New Hampshire	0.0041	0.0013	27
New Jersey	1.3602	0.4197	8,623
New Mexico	0.0002	0.0001	2
New York	0.5554	0.1728	3,451
North Carolina	0.0480	0.0155	389
North Dakota	0.0016	0.0005	10
Ohio	0.6289	0.1987	4,507
Oklahoma	0.0584	0.0195	444
Oregon	0.0827	0.0261	616
Pennsylvania	0.9980	0.3110	6,553
Rhode Island	0.0198	0.0058	124
South Carolina	1.4895	0.4788	12,201
South Dakota	0.5110	0.1697	4,244
Tennessee	1.0747	0.3367	7,491
Texas	4.1455	1.3586	28,798
Utah	0.0030	0.0010	23
Vermont	0.0396	0.0128	318
Virginia	0.0475	0.0149	344
Washington	0.3478	0.1134	2,359
West Virginia	0.0622	0.0191	444
Wisconsin	0.1734	0.0575	1,344
Wyoming	0.0639	0.0212	469
State Totals	32.4203	10.6023	236,706
Interstate Spillovers	12.8113	3.7117	82,415
U.S. Totals	45.2316	14.3140	319,121

Sources: GMU Schar Fuller; Dodge Data & Analytics; BEA; NAIOP

Note: Appendices include data for the District of Columbia, resulting in 51 states.

Appendix C-3
Impacts of Construction (**Hard Costs**) on State Economies
(**Warehouse**), 2016

State	Total Output (In Billions of Dollars)	Personal Earnings (In Billions of Dollars)	Jobs Supported
Alabama	0.0141	0.0046	112
Alaska	0.0122	0.0043	87
Arizona	0.7972	0.2688	6,417
Arkansas	0.2951	0.0951	2,352
California	3.8436	1.2721	26,311
Colorado	0.8444	0.2821	6,560
Connecticut	0.2306	0.0741	1,459
Delaware	0.0102	0.0028	61
District of Columbia	0.0132	0.0010	18
Florida	2.6698	0.8987	22,578
Georgia	0.9255	0.3028	7,311
Hawaii	0.0313	0.0108	232
Idaho	0.0384	0.0129	325
Illinois	2.1885	0.6888	14,477
Indiana	0.7542	0.2373	5,504
Iowa	0.1469	0.0472	1,098
Kansas	0.6889	0.2040	4,821
Kentucky	0.4589	0.1402	3,474
Louisiana	0.1491	0.0502	1,087
Maine	0.0080	0.0027	67
Maryland	0.3112	0.0985	2,035
Massachusetts	0.1920	0.0606	1,189
Michigan	0.2937	0.0975	2,352
Minnesota	0.3349	0.1070	2,353
Mississippi	0.0026	0.0008	21
Missouri	0.8370	0.2551	6,037
Montana	0.0075	0.0025	64
Nebraska	0.0734	0.0240	543
Nevada	0.5169	0.1721	3,743
New Hampshire	0.0109	0.0033	70
New Jersey	1.4730	0.4545	9,338
New Mexico	0.0129	0.0044	109
New York	1.3107	0.4077	8,146
North Carolina	0.4978	0.1609	4,036
North Dakota	0.1088	0.0344	704
Ohio	0.6044	0.1910	4,331
Oklahoma	0.2881	0.0960	2,189
Oregon	0.4891	0.1542	3,643
Pennsylvania	1.2095	0.3769	7,942
Rhode Island	0.0012	0.0004	8
South Carolina	0.1708	0.0549	1,399
South Dakota	0.1127	0.0374	936
Tennessee	0.2617	0.0820	1,824
Texas	4.1943	1.3746	29,137
Utah	0.2650	0.0871	2,067
Vermont	0.0023	0.0008	19
Virginia	0.2547	0.0796	1,844
Washington	0.4450	0.1450	3,018
West Virginia	0.0380	0.0117	271
Wisconsin	0.4285	0.1422	3,320
Wyoming	0.0244	0.0081	179
State Totals	28.8930	9.3257	207,217
Interstate Spillovers	10.5815	3.1664	71,285
U.S. Totals	39.4744	12.4921	278,502

Sources: GMU Schar Fuller; Dodge Data & Analytics; BEA; NAIOP

Note: Appendices include data for the District of Columbia, resulting in 51 states.

Appendix C-4
Impacts of Construction (Hard Costs) on State Economies
(Retail and Entertainment), 2016

State	Total Output (In Billions of Dollars)	Personal Earnings (In Billions of Dollars)	Jobs Supported
Alabama	0.2586	0.0846	2,058
Alaska	0.0156	0.0055	111
Arizona	0.6153	0.2075	4,954
Arkansas	0.1841	0.0593	1,467
California	4.0773	1.3494	27,911
Colorado	0.7405	0.2474	5,753
Connecticut	0.1486	0.0477	940
Delaware	0.0712	0.0194	429
District of Columbia	0.1256	0.0095	174
Florida	2.9516	0.9936	24,961
Georgia	1.6784	0.5490	13,258
Hawaii	0.1735	0.0600	1,285
Idaho	0.1038	0.0348	877
Illinois	1.5541	0.4891	10,280
Indiana	0.3856	0.1213	2,814
Iowa	0.4443	0.1428	3,319
Kansas	0.3126	0.0926	2,187
Kentucky	0.4065	0.1242	3,077
Louisiana	0.3101	0.1044	2,262
Maine	0.0613	0.0205	514
Maryland	0.6247	0.1978	4,084
Massachusetts	1.1208	0.3537	6,940
Michigan	0.5262	0.1747	4,214
Minnesota	0.5249	0.1678	3,688
Mississippi	0.1378	0.0448	1,113
Missouri	0.7084	0.2159	5,109
Montana	0.1045	0.0355	900
Nebraska	0.1730	0.0565	1,280
Nevada	0.4143	0.1379	3,000
New Hampshire	0.0855	0.0261	554
New Jersey	0.6626	0.2044	4,200
New Mexico	0.1380	0.0467	1,160
New York	2.8315	0.8808	17,597
North Carolina	1.0884	0.3518	8,826
North Dakota	0.0415	0.0131	269
Ohio	1.0635	0.3361	7,621
Oklahoma	0.4001	0.1333	3,041
Oregon	0.3963	0.1249	2,952
Pennsylvania	1.6107	0.5019	10,576
Rhode Island	0.0408	0.0119	256
South Carolina	0.4300	0.1382	3,522
South Dakota	0.0677	0.0225	562
Tennessee	1.0269	0.3218	7,158
Texas	4.7932	1.5708	33,298
Utah	0.2919	0.0960	2,276
Vermont	0.0227	0.0073	182
Virginia	1.2615	0.3943	9,130
Washington	0.5105	0.1664	3,462
West Virginia	0.0394	0.0121	281
Wisconsin	0.4496	0.1492	3,484
Wyoming	0.0202	0.0067	148
State Totals	36.2254	11.6637	259,514
Interstate Spillovers	13.9293	4.2083	94,340
U.S. Totals	50.1547	15.8720	353,854

Sources: GMU Schar Fuller; Dodge Data & Analytics; BEA; NAIOP

Note: Appendices include data for the District of Columbia, resulting in 51 states.

Appendix C-5
 Impacts of Construction (**Hard Costs**) on State Economies
 (in Four Categories), 2016

State	Total Output (In Billions of Dollars)	Personal Earnings (In Billions of Dollars)	Jobs Supported
Alabama	1.4402	0.4713	11,462
Alaska	0.0729	0.0257	519
Arizona	2.2512	0.7592	18,123
Arkansas	0.8724	0.2810	6,952
California	15.6742	5.1876	107,296
Colorado	3.0065	1.0046	23,358
Connecticut	0.6908	0.2219	4,372
Delaware	0.1503	0.0410	906
District of Columbia	1.5651	0.1188	2,168
Florida	8.1193	2.7332	68,662
Georgia	6.6069	2.1612	52,188
Hawaii	0.3248	0.1123	2,405
Idaho	0.4213	0.1412	3,561
Illinois	5.9199	1.8633	39,160
Indiana	1.7670	0.5560	12,894
Iowa	1.2200	0.3921	9,113
Kansas	1.8464	0.5469	12,921
Kentucky	2.2532	0.6886	17,058
Louisiana	11.2228	3.7796	81,868
Maine	0.1643	0.0550	1,377
Maryland	2.3216	0.7349	15,178
Massachusetts	4.3700	1.3792	27,061
Michigan	6.4784	2.1509	51,888
Minnesota	1.6513	0.5278	11,602
Mississippi	0.2958	0.0961	2,390
Missouri	2.8664	0.8735	20,673
Montana	0.1955	0.0664	1,684
Nebraska	1.3127	0.4284	9,710
Nevada	1.9905	0.6626	14,414
New Hampshire	0.1220	0.0373	791
New Jersey	3.9772	1.2272	25,213
New Mexico	0.2706	0.0915	2,275
New York	22.5970	7.0293	140,431
North Carolina	4.3510	1.4063	35,283
North Dakota	0.2910	0.0920	1,883
Ohio	3.8264	1.2091	27,420
Oklahoma	1.2716	0.4238	9,664
Oregon	2.8211	0.8893	21,014
Pennsylvania	4.8404	1.5083	31,784
Rhode Island	0.2775	0.0811	1,737
South Carolina	2.3075	0.7417	18,901
South Dakota	0.8302	0.2757	6,894
Tennessee	3.5071	1.0989	24,446
Texas	23.0484	7.5534	160,114
Utah	0.9472	0.3115	7,387
Vermont	0.0683	0.0221	549
Virginia	3.5774	1.1180	25,890
Washington	3.1946	1.0413	21,665
West Virginia	0.1620	0.0498	1,156
Wisconsin	2.0977	0.6959	16,254
Wyoming	0.1193	0.0397	876
State Totals	171.5771	55.0035	1,212,590
Interstate Spillovers	69.8242	21.3905	490,558
U.S. Totals	241.4013	76.3940	1,703,149

Sources: GMU Schar Fuller; Dodge Data & Analytics; BEA; NAIOP

Note: Appendices include data for the District of Columbia, resulting in 51 states.