

Appendix G: National and State Multipliers

Appendix G-1 Output, Earnings and Employment Multipliers: **Construction**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	2.1444	0.7018	17.0657
Alaska	1.6928	0.5958	12.0441
Arizona	2.0424	0.6888	16.4421
Arkansas	2.0016	0.6447	15.9508
California	2.1244	0.7031	14.5424
Colorado	2.1596	0.7216	16.7783
Connecticut	1.8400	0.5910	11.6449
Delaware	1.7637	0.4807	10.6261
District of Columbia	1.1226	0.0852	1.5548
Florida	2.0503	0.6902	17.3388
Georgia	2.2943	0.7505	18.1227
Hawaii	1.8257	0.6315	13.5220
Idaho	1.8333	0.6146	15.4965
Illinois	2.2974	0.7231	15.1972
Indiana	2.2002	0.6923	16.0555
Iowa	1.9324	0.6210	14.4339
Kansas	1.9857	0.5881	13.8961
Kentucky	2.1092	0.6446	15.9681
Louisiana	1.9853	0.6686	14.4823
Maine	1.8935	0.6338	15.8670
Maryland	1.8736	0.5931	12.2490
Massachusetts	1.8947	0.5980	11.7328
Michigan	2.1276	0.7064	17.0410
Minnesota	2.1818	0.6973	15.3290
Mississippi	1.9767	0.6423	15.9729
Missouri	2.1393	0.6519	15.4292
Montana	1.8439	0.6259	15.8797
Nebraska	1.8824	0.6143	13.9239
Nevada	1.8446	0.6140	13.3579
New Hampshire	1.9384	0.5927	12.5641
New Jersey	2.0473	0.6317	12.9788
New Mexico	1.7534	0.5929	14.7413
New York	1.8285	0.5688	11.3634
North Carolina	2.1890	0.7075	17.7512
North Dakota	1.7668	0.5587	11.4290
Ohio	2.2915	0.7241	16.4212
Oklahoma	2.0583	0.6860	15.6436
Oregon	2.0132	0.6346	14.9960
Pennsylvania	2.2512	0.7015	14.7823
Rhode Island	1.7570	0.5138	10.9996
South Carolina	2.1756	0.6993	17.8207
South Dakota	1.8466	0.6133	15.3338
Tennessee	2.2550	0.7066	15.7184
Texas	2.3987	0.7861	16.6634
Utah	2.2180	0.7294	17.2979
Vermont	1.8106	0.5865	14.5454
Virginia	1.9499	0.6094	14.1119
Washington	2.0715	0.6752	14.0483
West Virginia	1.7955	0.5522	12.8056
Wisconsin	2.0672	0.6858	16.0172
Wyoming	1.6172	0.5380	11.8665
U.S. Total	2.9100	0.9209	20.5308

Source: BEA

Appendix G-2
Output, Earnings and Employment Multipliers: **Soft Costs**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.9504	0.7622	17.4013
Alaska	1.7681	0.7092	13.8984
Arizona	2.1707	0.8421	18.4322
Arkansas	1.8058	0.7145	16.8312
California	2.2665	0.8663	15.7580
Colorado	2.3202	0.8871	18.5386
Connecticut	1.9391	0.7191	12.8534
Delaware	1.7835	0.5273	10.0302
District of Columbia	1.3955	0.2022	3.1768
Florida	2.1932	0.8517	19.3169
Georgia	2.3635	0.8845	17.9749
Hawaii	1.9704	0.7738	16.9016
Idaho	1.7974	0.7213	16.8244
Illinois	2.3566	0.8649	16.7056
Indiana	2.0197	0.7642	17.2753
Iowa	1.8170	0.7075	16.2597
Kansas	1.8959	0.6691	15.0110
Kentucky	1.9534	0.7103	16.6342
Louisiana	1.9363	0.7675	15.8866
Maine	1.8990	0.7577	17.7171
Maryland	2.0771	0.7601	14.4432
Massachusetts	2.1080	0.7791	13.6209
Michigan	2.0919	0.8204	17.4449
Minnesota	2.2082	0.8247	16.6418
Mississippi	1.8020	0.7008	16.6352
Missouri	2.0610	0.7019	14.9865
Montana	1.7842	0.7287	17.5553
Nebraska	1.8743	0.7315	15.7703
Nevada	1.9310	0.7505	15.7180
New Hampshire	1.9337	0.6957	14.3698
New Jersey	2.1958	0.7708	14.7128
New Mexico	1.7937	0.7225	17.1300
New York	2.0012	0.6790	11.9203
North Carolina	2.1533	0.8226	18.5370
North Dakota	1.6894	0.6438	13.4392
Ohio	2.1846	0.8187	17.1369
Oklahoma	1.9799	0.7849	17.8914
Oregon	2.0079	0.7623	17.5223
Pennsylvania	2.1531	0.7872	14.7621
Rhode Island	1.8565	0.6439	13.4657
South Carolina	2.0791	0.7870	18.5512
South Dakota	1.7417	0.6961	16.3575
Tennessee	2.1904	0.8134	17.1391
Texas	2.4033	0.9006	17.5630
Utah	2.2307	0.8572	20.7190
Vermont	1.8078	0.7099	16.2348
Virginia	2.0051	0.6892	13.3117
Washington	2.0789	0.8031	15.4905
West Virginia	1.6919	0.6512	13.7055
Wisconsin	1.9475	0.7634	16.7725
Wyoming	1.5631	0.6317	13.7244
U.S. Total	2.8808	1.0449	21.4968

Source: BEA

Appendix G-3

Output, Earnings and Employment Multipliers: **Services to Buildings**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.7921	0.5761	25.0809
Alaska	1.5764	0.5213	20.2826
Arizona	1.8776	0.616	22.8987
Arkansas	1.6901	0.5376	23.7426
California	1.9982	0.6429	21.6728
Colorado	1.9947	0.6485	24.0099
Connecticut	1.7513	0.5404	18.8623
Delaware	1.6601	0.4465	17.6124
District of Columbia	1.2177	0.1281	5.3811
Florida	1.8995	0.6235	25.3805
Georgia	2.0961	0.6617	24.571
Hawaii	1.7394	0.5698	21.1433
Idaho	1.6313	0.535	23.9897
Illinois	2.1207	0.6551	22.2546
Indiana	1.9311	0.5964	22.4899
Iowa	1.7023	0.5335	22.3115
Kansas	1.7651	0.504	19.4051
Kentucky	1.8702	0.5591	22.8621
Louisiana	1.7898	0.5763	24.4788
Maine	1.7307	0.569	23.6287
Maryland	1.8013	0.5512	19.6379
Massachusetts	1.8272	0.5637	19.2655
Michigan	1.9229	0.6222	23.0957
Minnesota	1.9899	0.6237	22.7869
Mississippi	1.7011	0.5367	23.8003
Missouri	1.9055	0.564	22.3258
Montana	1.62	0.5388	24.4248
Nebraska	1.6901	0.5371	23.3536
Nevada	1.6976	0.5507	22.4998
New Hampshire	1.7273	0.5113	18.3862
New Jersey	1.9671	0.5849	20.1022
New Mexico	1.6267	0.5349	23.883
New York	1.7711	0.5195	18.1428
North Carolina	1.9619	0.622	26.0806
North Dakota	1.5619	0.4811	19.6003
Ohio	2.0495	0.638	21.9941
Oklahoma	1.8284	0.5931	24.0507
Oregon	1.8057	0.5636	21.5082
Pennsylvania	1.973	0.6053	20.7752
Rhode Island	1.7014	0.4916	17.8955
South Carolina	1.9018	0.5879	24.8989
South Dakota	1.5867	0.5005	22.4711
Tennessee	1.9968	0.6153	22.3613
Texas	2.1282	0.6744	25.5611
Utah	1.9962	0.6419	26.0185
Vermont	1.6388	0.5178	22.9434
Virginia	1.7734	0.5267	19.2935
Washington	1.8483	0.5931	21.649
West Virginia	1.5864	0.4818	19.2475
Wisconsin	1.8293	0.5893	23.364
Wyoming	1.4622	0.4767	21.9758
U.S. Total	2.7236	0.7447	16.6567

Source: BEA

Appendix G-4

Output, Earnings and Employment Multipliers: Management Services

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.98	0.803	22.2943
Alaska	1.8248	0.7556	16.3897
Arizona	2.2376	0.8924	23.0916
Arkansas	1.846	0.7584	21.0093
California	2.3451	0.9204	18.5128
Colorado	2.395	0.9402	22.2625
Connecticut	2.0074	0.7684	14.9747
Delaware	1.8181	0.5591	12.5816
District of Columbia	1.4135	0.2139	3.9423
Florida	2.2744	0.9078	22.4034
Georgia	2.4449	0.9391	20.853
Hawaii	2.0262	0.8216	22.2706
Idaho	1.8439	0.7653	21.339
Illinois	2.4404	0.9211	19.4311
Indiana	2.0687	0.8104	21.2033
Iowa	1.8622	0.7523	20.123
Kansas	1.9332	0.7053	18.2073
Kentucky	1.9977	0.7527	20.1535
Louisiana	1.9815	0.8119	19.7434
Maine	1.9471	0.8038	22.1073
Maryland	2.1356	0.806	16.649
Massachusetts	2.1767	0.8282	16.1734
Michigan	2.1419	0.8667	20.2411
Minnesota	2.2861	0.8786	20.0267
Mississippi	1.844	0.7433	20.7272
Missouri	2.1237	0.7465	18.8472
Montana	1.8319	0.774	21.8783
Nebraska	1.9236	0.7767	19.7741
Nevada	1.9881	0.7981	18.6263
New Hampshire	1.9737	0.7358	16.749
New Jersey	2.2792	0.8218	16.895
New Mexico	1.8326	0.7644	21.2845
New York	2.0894	0.7292	14.3098
North Carolina	2.2095	0.8705	21.323
North Dakota	1.7177	0.6796	17.0049
Ohio	2.24	0.8663	20.0086
Oklahoma	2.0412	0.8342	21.7367
Oregon	2.0601	0.8071	21.6918
Pennsylvania	2.2038	0.8314	17.0871
Rhode Island	1.9226	0.6893	16.8909
South Carolina	2.111	0.8275	22.6115
South Dakota	1.7875	0.7412	20.5708
Tennessee	2.2556	0.8624	19.7931
Texas	2.4683	0.9507	20.3011
Utah	2.3004	0.9085	24.974
Vermont	1.8634	0.7574	20.1201
Virginia	2.0516	0.7288	15.3673
Washington	2.1312	0.8488	18.4083
West Virginia	1.7251	0.6912	16.6841
Wisconsin	2.0073	0.8129	21.0737
Wyoming	1.6034	0.6733	16.7093
U.S. Total	2.8145	0.9642	17.5741

Source: BEA

Appendix G-5
Output, Earnings and Employment Multipliers: **Utilities**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.6086	0.3307	6.5199
Alaska	1.6383	0.3312	5.2654
Arizona	1.6111	0.3478	6.5592
Arkansas	1.5749	0.3128	6.0497
California	1.7673	0.3744	6.0142
Colorado	1.8653	0.4038	7.3335
Connecticut	1.4538	0.2852	4.3519
Delaware	1.5087	0.2585	4.2488
District of Columbia	1.18	0.0808	1.0895
Florida	1.5794	0.341	6.757
Georgia	1.6321	0.3469	6.6075
Hawaii	1.5094	0.3082	5.4147
Idaho	1.4261	0.2876	5.5179
Illinois	1.7448	0.3629	6.3962
Indiana	1.5917	0.3161	5.9731
Iowa	1.4148	0.2669	4.959
Kansas	1.6575	0.3163	5.7393
Kentucky	1.6203	0.312	6.0909
Louisiana	1.7652	0.37	6.7284
Maine	1.4518	0.2996	5.7155
Maryland	1.5159	0.2996	4.9417
Massachusetts	1.4981	0.2937	4.5211
Michigan	1.5343	0.3179	5.7387
Minnesota	1.6337	0.3324	5.8909
Mississippi	1.6126	0.3232	6.2809
Missouri	1.5637	0.2984	5.6998
Montana	1.6369	0.3304	6.3822
Nebraska	1.449	0.281	4.9393
Nevada	1.4366	0.288	4.9954
New Hampshire	1.4145	0.2601	4.2604
New Jersey	1.5929	0.3124	5.259
New Mexico	1.6668	0.3287	6.1891
New York	1.4862	0.2756	4.2802
North Carolina	1.5376	0.3168	6.0845
North Dakota	1.6824	0.3201	5.3225
Ohio	1.6617	0.3385	6.0981
Oklahoma	1.855	0.388	6.8763
Oregon	1.4821	0.2849	5.3646
Pennsylvania	1.7514	0.3578	6.0363
Rhode Island	1.401	0.239	3.9868
South Carolina	1.5395	0.3037	6.2564
South Dakota	1.4077	0.2807	5.2616
Tennessee	1.6064	0.3251	6.0574
Texas	1.9999	0.4358	7.7027
Utah	1.8415	0.3961	7.7567
Vermont	1.3631	0.2409	4.2614
Virginia	1.5589	0.3091	5.3104
Washington	1.5798	0.3234	5.7053
West Virginia	1.607	0.297	5.5595
Wisconsin	1.4854	0.3031	5.3796
Wyoming	1.5552	0.3	5.0743
U.S. Total	2.2475	0.5075	9.5091

Source: BEA

Appendix G-6

Output, Earnings and Employment Multipliers: **Building Operations**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.8600	0.5796	17.5005
Alaska	1.6668	0.5291	13.4300
Arizona	1.9088	0.6094	16.8514
Arkansas	1.7614	0.5412	16.4663
California	2.0277	0.6334	15.0419
Colorado	2.0713	0.6513	17.3297
Connecticut	1.7367	0.5233	12.3964
Delaware	1.6718	0.4231	11.3119
District of Columbia	1.2201	0.1203	3.0098
Florida	1.9152	0.6129	17.7417
Georgia	2.0785	0.6462	17.3630
Hawaii	1.7486	0.5579	15.1559
Idaho	1.6616	0.5274	16.3440
Illinois	2.1171	0.6388	15.6471
Indiana	1.9267	0.5807	16.1293
Iowa	1.7069	0.5204	15.2083
Kansas	1.8189	0.5088	14.0737
Kentucky	1.8815	0.5464	16.0616
Louisiana	1.8648	0.5842	16.2925
Maine	1.7319	0.5526	16.5193
Maryland	1.8004	0.5379	13.2430
Massachusetts	1.8158	0.5452	12.8039
Michigan	1.9042	0.6026	16.3077
Minnesota	1.9911	0.6070	15.8070
Mississippi	1.7688	0.5405	16.5017
Missouri	1.9066	0.5447	15.4247
Montana	1.7171	0.5448	16.9047
Nebraska	1.7119	0.5283	15.3298
Nevada	1.7134	0.5381	14.7439
New Hampshire	1.7361	0.5021	12.7720
New Jersey	1.9394	0.5637	13.6905
New Mexico	1.7058	0.5334	16.3068
New York	1.7638	0.5019	11.9717
North Carolina	1.9439	0.6031	17.6678
North Dakota	1.6729	0.4912	13.2052
Ohio	2.0348	0.6172	15.8853
Oklahoma	1.9297	0.6024	16.8468
Oregon	1.8121	0.5477	15.5002
Pennsylvania	2.0204	0.6009	14.5764
Rhode Island	1.6717	0.4629	12.1988
South Carolina	1.9052	0.5795	17.6119
South Dakota	1.6360	0.5105	15.6378
Tennessee	1.9977	0.6017	15.7763
Texas	2.2195	0.6854	17.5132
Utah	2.0620	0.6433	18.6690
Vermont	1.6445	0.5011	15.2308
Virginia	1.8070	0.5230	13.4558
Washington	1.8790	0.5846	14.8114
West Virginia	1.6676	0.4856	13.4371
Wisconsin	1.8235	0.5738	16.1945
Wyoming	1.5509	0.4782	13.9011
U.S. Total	2.6378	0.7560	19.6129

Source: BEA