

Appendix G: National and State Multipliers

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

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	2.1497	0.7259	19.5051
Alaska	1.8233	0.6304	13.8568
Arizona	2.0861	0.7390	18.0662
Arkansas	1.9602	0.6425	18.0346
California	2.2895	0.7858	16.7569
Colorado	2.2683	0.7826	18.8544
Connecticut	1.9558	0.6567	13.9706
Delaware	1.8839	0.5373	13.0196
District of Columbia	1.2023	0.0906	1.7804
Florida	2.0909	0.7436	20.0685
Georgia	2.2633	0.7623	20.0285
Hawaii	1.9298	0.6843	15.6851
Idaho	1.8088	0.6387	18.2189
Illinois	2.3690	0.7760	17.0620
Indiana	2.1798	0.7100	18.3468
Iowa	1.8018	0.6056	16.3436
Kansas	1.9332	0.5935	15.1935
Kentucky	2.1213	0.6649	18.4821
Louisiana	2.0930	0.7121	17.3469
Maine	1.9845	0.7003	19.6496
Maryland	1.9716	0.6410	13.9927
Massachusetts	2.0430	0.6781	14.3615
Michigan	2.1682	0.7544	20.4644
Minnesota	2.1572	0.7191	17.8845
Mississippi	2.0237	0.6612	18.6380
Missouri	2.2024	0.6918	17.4321
Montana	1.8796	0.6591	18.9537
Nebraska	1.7156	0.5819	14.8600
Nevada	1.8886	0.6661	15.3689
New Hampshire	2.0629	0.6668	16.2221
New Jersey	2.1999	0.7058	14.9839
New Mexico	1.8956	0.6547	17.7908
New York	1.8908	0.6201	13.1364
North Carolina	2.1852	0.7357	20.1983
North Dakota	1.7667	0.5640	14.4620
Ohio	2.3325	0.7667	19.6846
Oklahoma	2.1421	0.7251	19.9859
Oregon	2.0724	0.6839	17.4030
Pennsylvania	2.3690	0.7700	17.8969
Rhode Island	1.8886	0.5965	14.5946
South Carolina	2.1765	0.7279	20.4522
South Dakota	1.6919	0.5875	16.2962
Tennessee	2.2647	0.7304	18.6808
Texas	2.4924	0.8332	19.0890
Utah	2.3414	0.7935	20.5042
Vermont	1.8622	0.6343	17.7543
Virginia	2.0488	0.6628	16.3838
Washington	2.1603	0.7331	16.3640
West Virginia	1.8757	0.5995	15.8972
Wisconsin	2.0866	0.7130	18.1530
Wyoming	1.7276	0.5893	14.1577
U.S. Total	3.0855	0.9766	23.4185

Source: BEA

Appendix G-2

Output, Earnings and Employment Multipliers: **Soft Costs**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.8846	0.6526	14.0886
Alaska	1.7349	0.6062	11.5208
Arizona	2.0482	0.7156	15.2140
Arkansas	1.7237	0.5932	12.3408
California	2.2420	0.7729	13.8327
Colorado	2.2626	0.7814	14.5581
Connecticut	1.9983	0.6617	11.2952
Delaware	1.7525	0.4724	8.6054
District of Columbia	1.3990	0.1119	1.7536
Florida	2.1237	0.7438	15.8857
Georgia	2.2266	0.7489	15.3625
Hawaii	1.8870	0.6647	13.2486
Idaho	1.7084	0.6065	12.7035
Illinois	2.2824	0.7646	13.9237
Indiana	1.9048	0.6298	13.9713
Iowa	1.6550	0.5600	11.9515
Kansas	1.7274	0.5487	10.9119
Kentucky	1.9067	0.6104	13.2968
Louisiana	1.8631	0.6555	13.4748
Maine	1.8757	0.6570	14.6829
Maryland	2.0170	0.6440	11.5221
Massachusetts	2.1090	0.7023	11.8612
Michigan	2.0506	0.7071	14.3898
Minnesota	2.0741	0.7048	13.5772
Mississippi	1.7251	0.5869	13.0708
Missouri	2.0575	0.6252	12.5228
Montana	1.7108	0.6079	13.9290
Nebraska	1.6630	0.5679	11.2783
Nevada	1.8600	0.6512	13.1902
New Hampshire	1.9520	0.6072	12.1289
New Jersey	2.1749	0.6823	11.8630
New Mexico	1.7605	0.6254	13.7125
New York	1.9601	0.5802	9.6792
North Carolina	2.0755	0.7047	14.9829
North Dakota	1.5974	0.5431	10.6702
Ohio	2.1255	0.7102	14.6255
Oklahoma	1.9006	0.6591	14.6034
Oregon	1.9768	0.6644	14.3280
Pennsylvania	2.1733	0.7164	13.7669
Rhode Island	1.8660	0.5666	11.2437
South Carolina	1.9721	0.6607	14.8135
South Dakota	1.5351	0.5120	10.2573
Tennessee	2.1112	0.6996	14.2327
Texas	2.2840	0.7763	15.4176
Utah	2.1751	0.7525	17.8055
Vermont	1.7988	0.6118	13.5330
Virginia	2.0293	0.6418	11.8208
Washington	1.9937	0.6740	12.6873
West Virginia	1.6898	0.5684	12.4794
Wisconsin	1.9208	0.6612	14.1425
Wyoming	1.5542	0.5380	10.8880
U.S. Total	2.7326	0.9108	18.4048

Source: BEA

Appendix G-3

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

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.9195	0.6230	31.3204
Alaska	1.8270	0.5752	26.2612
Arizona	1.9861	0.6635	27.0989
Arkansas	1.7951	0.5693	29.7650
California	2.2934	0.7348	27.3860
Colorado	2.2420	0.7287	30.2194
Connecticut	1.9176	0.6049	24.5205
Delaware	1.8830	0.4987	23.1526
District of Columbia	1.3567	0.1573	9.0222
Florida	2.0532	0.6866	30.4299
Georgia	2.1703	0.7013	30.3782
Hawaii	1.9695	0.6408	26.3318
Idaho	1.6724	0.5567	29.0749
Illinois	2.3144	0.7263	28.3021
Indiana	2.0401	0.6324	27.5716
Iowa	1.6574	0.5267	26.1009
Kansas	1.8515	0.5308	23.3555
Kentucky	2.0037	0.6000	28.6623
Louisiana	2.0022	0.6426	30.4363
Maine	1.8398	0.6128	27.6313
Maryland	1.9517	0.6044	26.3137
Massachusetts	1.9997	0.6350	25.4153
Michigan	2.0160	0.6663	28.6892
Minnesota	2.0837	0.6631	29.2546
Mississippi	1.8682	0.5787	30.0690
Missouri	2.0358	0.6049	24.5135
Montana	1.8032	0.5807	30.7879
Nebraska	1.6180	0.5224	27.9226
Nevada	1.8071	0.5998	27.2603
New Hampshire	1.9350	0.5974	24.2693
New Jersey	2.2116	0.6612	24.8598
New Mexico	1.8844	0.6094	27.0986
New York	1.9225	0.5840	22.9368
North Carolina	2.0581	0.6656	32.4116
North Dakota	1.7075	0.5126	27.1567
Ohio	2.1932	0.6880	27.8022
Oklahoma	2.0562	0.6606	29.6054
Oregon	1.9204	0.6167	26.3187
Pennsylvania	2.1848	0.6738	28.2785
Rhode Island	1.8702	0.5705	23.6325
South Carolina	1.9807	0.6284	29.2726
South Dakota	1.5399	0.5023	27.5631
Tennessee	2.1041	0.6578	26.1652
Texas	2.4004	0.7573	32.4342
Utah	2.2430	0.7138	33.0803
Vermont	1.7463	0.5587	29.1488
Virginia	1.9729	0.5998	29.0661
Washington	2.0722	0.6605	27.4735
West Virginia	1.7604	0.5307	25.3580
Wisconsin	1.9134	0.6298	29.0307
Wyoming	1.6741	0.5234	27.9495
U.S. Total	2.8333	0.8844	33.6972

Source: BEA

Appendix G-4

Output, Earnings and Employment Multipliers: **Management Services**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.8774	0.6667	13.9341
Alaska	1.7416	0.6234	12.1443
Arizona	2.0429	0.7206	15.2567
Arkansas	1.7138	0.5976	10.8812
California	2.2677	0.7889	13.3516
Colorado	2.2846	0.7979	13.8113
Connecticut	2.0382	0.6890	10.6363
Delaware	1.7542	0.4905	8.3227
District of Columbia	1.4148	0.1096	1.4967
Florida	2.1406	0.7578	14.9140
Georgia	2.2480	0.7629	14.4007
Hawaii	1.8770	0.6722	12.9897
Idaho	1.6966	0.6130	12.1818
Illinois	2.3072	0.7835	12.8448
Indiana	1.8784	0.6210	12.6370
Iowa	1.6670	0.5744	11.4780
Kansas	1.7434	0.5778	10.7983
Kentucky	1.8859	0.6121	11.9801
Louisiana	1.8530	0.6659	13.7427
Maine	1.8807	0.6786	14.3239
Maryland	2.0198	0.6486	10.8358
Massachusetts	2.1310	0.7228	11.2533
Michigan	2.0372	0.7053	13.1004
Minnesota	2.0917	0.7183	12.1393
Mississippi	1.7181	0.6070	12.5578
Missouri	2.0998	0.6631	12.3747
Montana	1.7212	0.6239	13.5091
Nebraska	1.6724	0.5799	10.7662
Nevada	1.8686	0.6684	12.2021
New Hampshire	1.9314	0.5976	11.2132
New Jersey	2.1820	0.6867	10.9858
New Mexico	1.7430	0.6328	13.3714
New York	1.9610	0.5553	8.4943
North Carolina	2.0668	0.7122	13.5596
North Dakota	1.6061	0.5637	11.3550
Ohio	2.1193	0.7180	13.2829
Oklahoma	1.8988	0.6646	13.9207
Oregon	1.9665	0.6703	13.4257
Pennsylvania	2.1915	0.7377	12.9221
Rhode Island	1.8928	0.5978	10.1788
South Carolina	1.9644	0.6751	14.7763
South Dakota	1.5231	0.4890	8.6665
Tennessee	2.1106	0.7067	13.5985
Texas	2.2873	0.7838	15.3875
Utah	2.1786	0.7643	17.3845
Vermont	1.8336	0.6503	13.6645
Virginia	2.0482	0.6570	11.1778
Washington	1.9738	0.6632	11.6529
West Virginia	1.6887	0.5788	11.9726
Wisconsin	1.9173	0.6675	12.7906
Wyoming	1.5638	0.5697	10.6140
U.S. Total	2.7621	0.9290	17.7163

Source: BEA

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

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.8785	0.5455	14.3083
Alaska	1.7272	0.5047	9.6554
Arizona	1.9336	0.5789	12.3658
Arkansas	1.6982	0.4838	13.0050
California	2.0436	0.6094	11.6455
Colorado	2.0843	0.6200	14.8482
Connecticut	1.8047	0.5124	9.4379
Delaware	1.7364	0.4176	8.1464
District of Columbia	1.2685	0.0729	1.2154
Florida	1.9582	0.5889	14.0518
Georgia	2.0103	0.5843	14.1927
Hawaii	1.8276	0.5468	12.2934
Idaho	1.6916	0.4966	13.4898
Illinois	2.0560	0.5911	12.6255
Indiana	1.8594	0.5253	11.9313
Iowa	1.5738	0.4332	10.6138
Kansas	1.6855	0.4615	11.9886
Kentucky	1.8320	0.5008	13.1403
Louisiana	1.8419	0.5419	13.9172
Maine	1.8125	0.5394	12.9789
Maryland	1.8838	0.5256	10.6277
Massachusetts	1.9193	0.5447	9.9580
Michigan	1.9127	0.5603	12.4247
Minnesota	1.8706	0.5382	10.7826
Mississippi	1.7533	0.5044	13.6348
Missouri	1.9436	0.5139	11.3272
Montana	1.7212	0.5118	14.0685
Nebraska	1.5673	0.4297	8.4541
Nevada	1.7758	0.5077	11.3863
New Hampshire	1.8456	0.5059	10.8808
New Jersey	1.9771	0.5466	10.2162
New Mexico	1.7456	0.5139	13.7173
New York	1.8122	0.4976	8.9541
North Carolina	1.9216	0.5508	13.6335
North Dakota	1.6276	0.4574	11.9251
Ohio	1.9572	0.5526	12.3597
Oklahoma	1.8753	0.5515	13.9431
Oregon	1.8550	0.5163	13.1816
Pennsylvania	2.0538	0.5842	11.6897
Rhode Island	1.7649	0.4503	9.0428
South Carolina	1.8806	0.5114	12.8949
South Dakota	1.5436	0.4438	11.2142
Tennessee	1.9708	0.5531	13.6697
Texas	2.1498	0.6328	13.1925
Utah	2.0280	0.6003	16.2978
Vermont	1.7004	0.4435	11.8314
Virginia	1.9103	0.5308	11.8448
Washington	1.9031	0.5466	12.0593
West Virginia	1.6890	0.4594	10.5994
Wisconsin	1.8270	0.5327	11.0676
Wyoming	1.6058	0.4635	10.6296
U.S. Total	2.4640	0.7268	16.0036

Source: BEA

Appendix G-6
Output, Earnings and Employment Multipliers: **Building Operations**

State	MULTIPLIERS		
	Output	Earnings	Jobs
Alabama	1.9492	0.6348	18.9788
Alaska	1.7740	0.5793	14.7561
Arizona	2.0081	0.6703	17.5225
Arkansas	1.7829	0.5678	17.1292
California	2.2109	0.7230	16.5702
Colorado	2.2118	0.7265	18.7280
Connecticut	1.9239	0.6109	13.9594
Delaware	1.8057	0.4811	12.4644
District of Columbia	1.3098	0.1042	3.0579
Florida	2.0561	0.6889	19.0992
Georgia	2.1639	0.6962	18.9880
Hawaii	1.8937	0.6308	16.2026
Idaho	1.7158	0.5722	17.5103
Illinois	2.2476	0.7120	16.9950
Indiana	1.9760	0.6152	16.8748
Iowa	1.6680	0.5292	15.4086
Kansas	1.7924	0.5367	14.8033
Kentucky	1.9486	0.5883	17.3269
Louisiana	1.9362	0.6344	18.1297
Maine	1.8755	0.6280	17.9399
Maryland	1.9536	0.6007	14.7498
Massachusetts	2.0197	0.6407	14.5536
Michigan	2.0255	0.6649	17.8651
Minnesota	2.0388	0.6529	16.6479
Mississippi	1.8305	0.5827	17.9567
Missouri	2.0631	0.6127	15.7728
Montana	1.7749	0.5893	18.5577
Nebraska	1.6394	0.5232	14.6170
Nevada	1.8324	0.6053	15.8479
New Hampshire	1.9367	0.5860	15.0073
New Jersey	2.1309	0.6437	14.5880
New Mexico	1.8086	0.5973	17.3743
New York	1.8921	0.5589	12.7328
North Carolina	2.0486	0.6594	19.0676
North Dakota	1.6708	0.5211	15.5590
Ohio	2.1352	0.6733	17.5274
Oklahoma	1.9808	0.6437	18.6162
Oregon	1.9477	0.6160	16.9748
Pennsylvania	2.1896	0.6857	16.9214
Rhode Island	1.8487	0.5475	13.6789
South Carolina	1.9915	0.6283	18.5616
South Dakota	1.5716	0.5009	15.1539
Tennessee	2.1027	0.6558	17.4278
Texas	2.3170	0.7443	19.1602
Utah	2.1844	0.7112	21.0721
Vermont	1.7819	0.5653	17.3069
Virginia	1.9912	0.6085	16.3318
Washington	2.0161	0.6437	16.1807
West Virginia	1.7469	0.5376	15.2742
Wisconsin	1.9283	0.6296	16.9175
Wyoming	1.6372	0.5326	15.0742
U.S. Total	2.7620	0.8699	21.8700

Source: BEA