

# DATA APPENDIX

**Reading the Tables.** The tables on the following pages display the percentages of workers in different labor market states, out-of-labor-force (OLF), unemployed (U), or employed in one of the 22 major occupational groups. On the rows, the current labor market status ( $t$ ). On the columns, the labor market status in the following month ( $t + 1$ ). Totals sum up to 1 by row, so flows between two statuses are expressed in percentage of the stock of people in any of the labor market statuses at  $t$ . For example, in table 1, row 3, columns 3, 4, 5, etc. imply that 92.27% of those who were employed as Managers in any given month will be employed as Managers in the following month, while 0.56% will be employed in Finance, 0.33% in Computer occupations, 0.12% in Engineering, etc.

**Caveats.** All numbers for the agricultural sector should be taken with a grain of salt because of small underlying sample size. Similarly, flows *into* “Architecture and Engineering” and “Math and Computer” occupations *from* other occupations are typically very small, reflecting the specialized nature of the skills used in these sectors. Any change over time in these flows may look large in percentage points, but should be discounted because of measurement error from a very small base.

**Technical note.** While the dates of the beginning and end of the Great Recession are set by the NBER, dating the expansion and the Covid recession is less straightforward. I used 2016-17 as “typical” expansion years (the unemployment rate was low, but not at its minimum yet, and the economy was not as rattled by trade frictions as it was in 2018 and 2019). For the 2020 recession, I used all the months available (February through November). While the fluctuations in the unemployment rate were rather large within this window, I believe that using the whole sample — vis-a-vis, say, splitting it into February to April and May to November — helps smooth out known measurement error issues due to exceptional non-response rates in the first months of the pandemic.

TABLE 1. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Covid Recession (February–November 2020). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 650,000 person-month observations. Working-age (18-65) civilian population only.

t	t+1	OLF	U	Managers	Business & Financial	Computer & Math	Architecture & Engineering	Science	Social Work	Legal	Teachers	Arts & Media	Healthcare	Healthcare Support
OLF	0.8926	0.0416	0.0045	0.0017	0.0012	0.0007	0.0004	0.0009	0.0004	0.0004	0.0044	0.0016	0.0026	0.0019
U	0.2143	0.5094	0.0150	0.0076	0.0038	0.0020	0.0013	0.0026	0.0008	0.0008	0.0193	0.0076	0.0089	0.0056
Managers	0.0165	0.0140	0.9227	0.0056	0.0033	0.0012	0.0006	0.0009	0.0006	0.0006	0.0021	0.0017	0.0018	0.0007
Finance	0.0172	0.0138	0.0127	0.9111	0.0040	0.0010	0.0010	0.0015	0.0010	0.0010	0.0021	0.0016	0.0026	0.0009
Computer Engineering	0.0127	0.0079	0.0099	0.0071	0.9297	0.0050	0.0018	0.0007	0.0006	0.0006	0.0022	0.0016	0.0022	0.0001
Science	0.0114	0.0118	0.0087	0.0015	0.0100	0.9262	0.0009	0.0001	0.0000	0.0000	0.0009	0.0016	0.0024	0.0004
Social Work	0.0142	0.0147	0.0074	0.0044	0.0048	0.0021	0.9232	0.0038	0.0006	0.0006	0.0046	0.0014	0.0039	0.0013
Legal	0.0185	0.0147	0.0055	0.0042	0.0010	0.0002	0.0015	0.9213	0.0006	0.0006	0.0050	0.0007	0.0016	0.0016
Teachers	0.0146	0.0101	0.0074	0.0051	0.0024	0.0002	0.0004	0.0007	0.9366	0.0021	0.0013	0.0013	0.0033	0.0002
Arts & Media	0.0325	0.0317	0.0052	0.0027	0.0015	0.0005	0.0008	0.0019	0.0005	0.0005	0.9056	0.0011	0.0024	0.0008
Healthcare	0.0362	0.0394	0.0111	0.0035	0.0030	0.0010	0.0006	0.0005	0.0004	0.0004	0.0034	0.8761	0.0018	0.0014
HC Support	0.0179	0.0133	0.0058	0.0023	0.0011	0.0004	0.0013	0.0017	0.0005	0.0005	0.0024	0.0004	0.9318	0.0062
Protective	0.0407	0.0248	0.0028	0.0021	0.0011	0.0000	0.0003	0.0007	0.0000	0.0000	0.0022	0.0005	0.0164	0.8654
Food	0.0266	0.0171	0.0054	0.0027	0.0013	0.0007	0.0000	0.0003	0.0000	0.0000	0.0025	0.0000	0.0024	0.0008
Personal Maintenance	0.0711	0.0611	0.0066	0.0014	0.0007	0.0004	0.0001	0.0005	0.0000	0.0000	0.0018	0.0007	0.0019	0.0024
Sales	0.0610	0.0527	0.0059	0.0025	0.0015	0.0000	0.0007	0.0020	0.0000	0.0000	0.0029	0.0010	0.0042	0.0103
Office	0.0547	0.0424	0.0040	0.0012	0.0019	0.0004	0.0000	0.0004	0.0001	0.0001	0.0018	0.0003	0.0009	0.0008
Agriculture	0.0356	0.0292	0.0085	0.0040	0.0020	0.0007	0.0004	0.0008	0.0004	0.0004	0.0019	0.0015	0.0021	0.0016
Construction	0.0349	0.0240	0.0080	0.0051	0.0017	0.0007	0.0005	0.0011	0.0006	0.0006	0.0023	0.0010	0.0034	0.0021
Installation	0.0619	0.0369	0.0121	0.0001	0.0000	0.0006	0.0015	0.0000	0.0000	0.0002	0.0017	0.0007	0.0006	0.0001
Production	0.0347	0.0376	0.0079	0.0009	0.0008	0.0013	0.0002	0.0001	0.0000	0.0000	0.0002	0.0010	0.0007	0.0002
Transportation	0.0213	0.0204	0.0059	0.0011	0.0024	0.0026	0.0007	0.0004	0.0000	0.0000	0.0006	0.0009	0.0009	0.0000
	0.0286	0.0338	0.0042	0.0021	0.0011	0.0018	0.0007	0.0002	0.0001	0.0001	0.0011	0.0003	0.0013	0.0007
	0.0411	0.0368	0.0049	0.0016	0.0012	0.0006	0.0003	0.0005	0.0002	0.0002	0.0006	0.0009	0.0011	0.0010

TABLE 1B. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Covid Recession (February-November 2020). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 650,000 person-month observations. Working-age (18-65) civilian population only.

t	t+1	Protective Service	Food	Personal Care	Cleaning & Maintenance	Sales	Office & Admin	Agriculture	Construction & Extraction	Installation & Repair	Production	Transportation
OLF	0.0012	0.0065	0.0043	0.0037	0.0074	0.0092	0.0010	0.0037	0.0092	0.0013	0.0027	0.0047
U	0.0038	0.0288	0.0152	0.0160	0.0303	0.0305	0.0031	0.0233	0.0068	0.0068	0.0166	0.0272
Managers	0.0008	0.0014	0.0012	0.0011	0.0062	0.0075	0.0005	0.0036	0.0015	0.0015	0.0019	0.0025
Finance	0.0008	0.0015	0.0014	0.0009	0.0076	0.0127	0.0001	0.0007	0.0008	0.0008	0.0014	0.0015
Computer	0.0013	0.0005	0.0008	0.0004	0.0038	0.0053	0.0000	0.0006	0.0021	0.0021	0.0019	0.0018
Engineering	0.0007	0.0008	0.0003	0.0006	0.0048	0.0052	0.0000	0.0027	0.0027	0.0027	0.0051	0.0012
Science	0.0006	0.0006	0.0008	0.0003	0.0020	0.0038	0.0000	0.0008	0.0019	0.0019	0.0020	0.0007
Social Work	0.0009	0.0006	0.0015	0.0011	0.0024	0.0075	0.0000	0.0010	0.0007	0.0007	0.0014	0.0010
Legal	0.0009	0.0003	0.0009	0.0012	0.0030	0.0054	0.0000	0.0012	0.0010	0.0010	0.0014	0.0011
Teachers	0.0005	0.0007	0.0016	0.0006	0.0028	0.0047	0.0001	0.0004	0.0004	0.0004	0.0004	0.0007
Arts & Media	0.0014	0.0012	0.0027	0.0002	0.0050	0.0050	0.0000	0.0018	0.0007	0.0007	0.0021	0.0014
Healthcare	0.0002	0.0007	0.0014	0.0009	0.0026	0.0055	0.0001	0.0005	0.0006	0.0006	0.0012	0.0013
HCSupport	0.0015	0.0042	0.0117	0.0016	0.0058	0.0125	0.0004	0.0011	0.0009	0.0009	0.0020	0.0014
Protective	0.9146	0.0027	0.0013	0.0015	0.0039	0.0062	0.0002	0.0023	0.0018	0.0018	0.0032	0.0025
Food	0.0010	0.8080	0.0027	0.0049	0.0084	0.0104	0.0004	0.0033	0.0022	0.0022	0.0034	0.0065
Personal	0.0007	0.0034	0.8245	0.0038	0.0057	0.0093	0.0005	0.0016	0.0005	0.0005	0.0023	0.0029
Maintenance	0.0011	0.0028	0.0044	0.8470	0.0052	0.0072	0.0007	0.0072	0.0053	0.0053	0.0040	0.0061
Sales	0.0006	0.0032	0.0025	0.0017	0.8807	0.0112	0.0002	0.0019	0.0021	0.0021	0.0029	0.0045
Office	0.0009	0.0030	0.0017	0.0020	0.0091	0.8865	0.0003	0.0017	0.0011	0.0011	0.0028	0.0053
Agriculture	0.0024	0.0015	0.0022	0.0049	0.0031	0.0038	0.8410	0.0038	0.0068	0.0068	0.0054	0.0093
Construction	0.0012	0.0023	0.0013	0.0052	0.0034	0.0045	0.0014	0.8756	0.0048	0.0048	0.0079	0.0071
Installation	0.0012	0.0021	0.0011	0.0054	0.0047	0.0046	0.0011	0.0080	0.9029	0.9029	0.0064	0.0056
Production	0.0010	0.0022	0.0016	0.0024	0.0066	0.0067	0.0007	0.0080	0.0042	0.0042	0.8813	0.0094
Transportation	0.0015	0.0030	0.0012	0.0044	0.0067	0.0112	0.0010	0.0072	0.0032	0.0032	0.0079	0.8618

TABLE 2. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Great Recession (November 2007–June 2009). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 700,000 person-month observations. Working-age (18-65) civilian population only.

t	t+1	OLF	U	Managers	Business & Financial	Computer & Math	Architecture & Engineering	Science	Social Work	Legal	Teachers	Arts & Media	Healthcare	Healthcare Support
OLF	0.8962	0.0433	0.0032	0.0013	0.0006	0.0005	0.0003	0.0003	0.0007	0.0003	0.0043	0.0016	0.0017	0.0016
U	0.2113	0.5789	0.0079	0.0042	0.0026	0.0014	0.0010	0.0010	0.0015	0.0009	0.0088	0.0047	0.0037	0.0043
Managers	0.0142	0.0077	0.9382	0.0037	0.0019	0.0011	0.0007	0.0007	0.0007	0.0005	0.0017	0.0014	0.0013	0.0005
Business	0.0131	0.0078	0.0105	0.9312	0.0023	0.0009	0.0008	0.0008	0.0011	0.0008	0.0022	0.0013	0.0020	0.0005
Computer	0.0094	0.0074	0.0072	0.0041	0.9456	0.0033	0.0008	0.0008	0.0005	0.0003	0.0012	0.0016	0.0011	0.0005
Engineering	0.0111	0.0077	0.0064	0.0019	0.0045	0.0033	0.0017	0.0017	0.0006	0.0005	0.0013	0.0019	0.0014	0.0003
Science	0.0149	0.0095	0.0092	0.0041	0.0022	0.0023	0.9288	0.0012	0.0014	0.0011	0.0043	0.0017	0.0048	0.0007
Social Work	0.0180	0.0059	0.0061	0.0031	0.0007	0.0005	0.0008	0.0008	0.9353	0.0003	0.0044	0.0007	0.0040	0.0014
Legal	0.0118	0.0063	0.0059	0.0029	0.0012	0.0002	0.0007	0.0007	0.0006	0.9524	0.0021	0.0009	0.0023	0.0007
Teachers	0.0280	0.0091	0.0034	0.0019	0.0010	0.0004	0.0008	0.0008	0.0013	0.0006	0.3573	0.0011	0.0017	0.0006
Arts & Media	0.0356	0.0188	0.0062	0.0037	0.0022	0.0017	0.0011	0.0011	0.0002	0.0004	0.0041	0.0001	0.0010	0.0005
Healthcare	0.0134	0.0045	0.0034	0.0014	0.0006	0.0003	0.0008	0.0008	0.0012	0.0003	0.0026	0.0003	0.9550	0.0042
HC Support	0.0275	0.0135	0.0021	0.0013	0.0007	0.0003	0.0002	0.0002	0.0011	0.0002	0.0018	0.0004	0.0101	0.9087
Protective	0.0216	0.0087	0.0030	0.0013	0.0008	0.0003	0.0001	0.0001	0.0008	0.0002	0.0006	0.0007	0.0009	0.0009
Food	0.0451	0.0234	0.0033	0.0007	0.0005	0.0003	0.0001	0.0001	0.0003	0.0002	0.0010	0.0006	0.0007	0.0015
Personal	0.0544	0.0172	0.0033	0.0010	0.0004	0.0002	0.0002	0.0002	0.0013	0.0001	0.0039	0.0013	0.0021	0.0053
Maintenance	0.0420	0.0277	0.0031	0.0005	0.0003	0.0002	0.0002	0.0002	0.0002	0.0001	0.0009	0.0004	0.0007	0.0013
Sales	0.0298	0.0149	0.0070	0.0025	0.0010	0.0005	0.0004	0.0004	0.0004	0.0003	0.0015	0.0011	0.0012	0.0009
Office	0.0253	0.0119	0.0053	0.0040	0.0011	0.0005	0.0004	0.0004	0.0007	0.0003	0.0018	0.0011	0.0019	0.0015
Agriculture	0.0517	0.0376	0.0063	0.0007	0.0000	0.0009	0.0002	0.0002	0.0002	0.0002	0.0005	0.0006	0.0003	0.0005
Construction	0.0267	0.0489	0.0054	0.0006	0.0005	0.0008	0.0002	0.0002	0.0001	0.0000	0.0005	0.0006	0.0001	0.0002
Installation	0.0162	0.0146	0.0038	0.0008	0.0026	0.0015	0.0002	0.0002	0.0002	0.0001	0.0004	0.0006	0.0007	0.0003
Production	0.0214	0.0240	0.0035	0.0011	0.0008	0.0013	0.0003	0.0003	0.0002	0.0001	0.0005	0.0008	0.0007	0.0007
Transportation	0.0262	0.0235	0.0033	0.0007	0.0005	0.0006	0.0002	0.0002	0.0003	0.0001	0.0005	0.0006	0.0005	0.0006

TABLE 2B. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Great Recession (Nov 2007–June 2009). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 700,000 person-month observations. Working-age (18-65) civilian population only.

t	t+1	Protective Service	Food	Personal Care	Cleaning & Maintenance	Sales	Office & Admin	Agriculture	Construction & Extraction	Installation & Repair	Production	Transportation
OLF	0.0011	0.0061	0.0061	0.0044	0.0041	0.0083	0.0083	0.0009	0.0033	0.0012	0.0028	0.0038
U	0.0032	0.0199	0.0094	0.0094	0.0127	0.0245	0.0224	0.0036	0.0321	0.0056	0.0154	0.0020
Managers	0.0008	0.0019	0.0010	0.0009	0.0009	0.0071	0.0060	0.0004	0.0030	0.0014	0.0021	0.0018
Business & Financial	0.0005	0.0009	0.0012	0.0007	0.0007	0.0061	0.0124	0.0001	0.0006	0.0008	0.0012	0.0012
Math & Computer	0.0005	0.0006	0.0005	0.0007	0.0007	0.0035	0.0057	0.0000	0.0014	0.0021	0.0011	0.0010
Architecture & Engineering	0.0003	0.0004	0.0002	0.0004	0.0004	0.0037	0.0028	0.0001	0.0026	0.0032	0.0039	0.0018
Science	0.0003	0.0013	0.0008	0.0006	0.0006	0.0031	0.0039	0.0005	0.0007	0.0009	0.0018	0.0010
Social Work	0.0009	0.0012	0.0026	0.0006	0.0006	0.0028	0.0075	0.0000	0.0003	0.0008	0.0011	0.0009
Legal	0.0005	0.0006	0.0002	0.0002	0.0002	0.0022	0.0072	0.0000	0.0002	0.0002	0.0005	0.0003
Teachers	0.0003	0.0010	0.0023	0.0006	0.0006	0.0027	0.0041	0.0001	0.0002	0.0002	0.0006	0.0006
Arts & Media	0.0010	0.0016	0.0023	0.0008	0.0008	0.0055	0.0052	0.0003	0.0019	0.0012	0.0027	0.0017
Healthcare	0.0004	0.0009	0.0012	0.0004	0.0004	0.0023	0.0048	0.0000	0.0002	0.0003	0.0011	0.0006
Healthcare Support	0.0006	0.0027	0.0085	0.0023	0.0023	0.0038	0.0098	0.0002	0.0003	0.0005	0.0020	0.0014
Protective Service	0.9410	0.0011	0.0011	0.0013	0.0013	0.0039	0.0041	0.0001	0.0017	0.0016	0.0019	0.0023
Food	0.0007	0.8942	0.0025	0.0032	0.0032	0.0067	0.0055	0.0002	0.0020	0.0011	0.0030	0.0033
Personal Care	0.0010	0.0035	0.8837	0.0025	0.0025	0.0049	0.0071	0.0005	0.0007	0.0009	0.0023	0.0021
Cleaning & Maintenance	0.0008	0.0044	0.0024	0.8880	0.8880	0.0040	0.0044	0.0006	0.0052	0.0025	0.0046	0.0053
Sales	0.0008	0.0036	0.0015	0.0015	0.0015	0.9124	0.0097	0.0002	0.0017	0.0015	0.0026	0.0030
Office & Admin	0.0007	0.0022	0.0020	0.0013	0.0013	0.0070	0.9231	0.0001	0.0011	0.0008	0.0021	0.0033
Agriculture	0.0006	0.0025	0.0017	0.0062	0.0062	0.0040	0.0030	0.8589	0.0068	0.0018	0.0069	0.0080
Construction & Extraction	0.0006	0.0023	0.0005	0.0040	0.0040	0.0032	0.0025	0.0009	0.8842	0.0044	0.0059	0.0070
Installation & Repair	0.0010	0.0012	0.0008	0.0031	0.0031	0.0046	0.0029	0.0003	0.0056	0.9281	0.0057	0.0048
Production	0.0006	0.0022	0.0012	0.0024	0.0024	0.0038	0.0054	0.0007	0.0053	0.0035	0.9128	0.0068
Transportation	0.0012	0.0030	0.0015	0.0030	0.0030	0.0055	0.0076	0.0009	0.0058	0.0026	0.0077	0.9036

TABLE 3. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Expansion (January 2016–December 2017). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 2 million person-month observations. Working-age (18-65) civilian population only.

t	t+1	OLF	U	Managers	Business & Financial	Computer & Math	Architecture & Engineering	Science	Social Work	Legal	Teachers	Arts & Media	Healthcare	Healthcare Support
OLF	0.9054	0.0298	0.0036	0.0017	0.0010	0.0006	0.0004	0.0004	0.0008	0.0004	0.0043	0.0019	0.0022	0.0019
U	0.2448	0.4993	0.0095	0.0065	0.0038	0.0015	0.0009	0.0009	0.0025	0.0009	0.0135	0.0063	0.0066	0.0063
Managers	0.0150	0.0049	0.9301	0.0060	0.0031	0.0016	0.0005	0.0005	0.0012	0.0005	0.0022	0.0014	0.0021	0.0007
Finance	0.0163	0.0066	0.0140	0.9207	0.0038	0.0011	0.0008	0.0008	0.0011	0.0011	0.0023	0.0019	0.0020	0.0006
Computer	0.0134	0.0061	0.0106	0.0065	0.9303	0.0041	0.0008	0.0007	0.0007	0.0004	0.0021	0.0023	0.0015	0.0004
Engineering	0.0122	0.0050	0.0094	0.0037	0.0075	0.9275	0.0017	0.0007	0.0007	0.0007	0.0031	0.0022	0.0015	0.0006
Science	0.0172	0.0052	0.0062	0.0054	0.0035	0.0037	0.9269	0.0018	0.0018	0.0003	0.0053	0.0014	0.0051	0.0004
Social Work	0.0216	0.0052	0.0078	0.0041	0.0016	0.0007	0.0010	0.0010	0.9221	0.0005	0.0062	0.0016	0.0052	0.0018
Legal	0.0140	0.0025	0.0051	0.0040	0.0012	0.0008	0.0004	0.0004	0.0009	0.9479	0.0027	0.0013	0.0026	0.0011
Teachers	0.0302	0.0105	0.0037	0.0021	0.0013	0.0006	0.0008	0.0008	0.0017	0.0005	0.9327	0.0016	0.0023	0.0009
Arts & Media	0.0381	0.0142	0.0070	0.0036	0.0026	0.0033	0.0008	0.0008	0.0009	0.0004	0.0046	0.8923	0.0020	0.0007
Healthcare	0.0165	0.0042	0.0047	0.0023	0.0012	0.0006	0.0010	0.0010	0.0017	0.0004	0.0025	0.0004	0.9431	0.0056
HCSupport	0.0351	0.0122	0.0031	0.0011	0.0006	0.0005	0.0003	0.0003	0.0015	0.0002	0.0020	0.0006	0.0145	0.8896
Protective	0.0246	0.0087	0.0047	0.0021	0.0008	0.0010	0.0003	0.0003	0.0014	0.0003	0.0016	0.0011	0.0015	0.0009
Food	0.0524	0.0183	0.0049	0.0009	0.0007	0.0004	0.0001	0.0001	0.0005	0.0001	0.0014	0.0006	0.0015	0.0014
Personal	0.0546	0.0138	0.0045	0.0016	0.0007	0.0003	0.0002	0.0002	0.0020	0.0001	0.0043	0.0014	0.0038	0.0073
Maintenance	0.0438	0.0179	0.0035	0.0008	0.0004	0.0003	0.0001	0.0001	0.0004	0.0001	0.0010	0.0006	0.0007	0.0015
Sales	0.0345	0.0102	0.0084	0.0039	0.0011	0.0008	0.0003	0.0003	0.0004	0.0004	0.0019	0.0014	0.0019	0.0011
Office	0.0289	0.0092	0.0076	0.0056	0.0018	0.0005	0.0003	0.0003	0.0012	0.0007	0.0022	0.0011	0.0027	0.0017
Agriculture	0.0548	0.0310	0.0090	0.0004	0.0005	0.0006	0.0011	0.0003	0.0003	0.0000	0.0003	0.0004	0.0006	0.0003
Construction	0.0299	0.0243	0.0085	0.0009	0.0006	0.0011	0.0001	0.0001	0.0004	0.0001	0.0006	0.0005	0.0005	0.0003
Installation	0.0191	0.0088	0.0048	0.0010	0.0035	0.0022	0.0002	0.0002	0.0002	0.0002	0.0008	0.0008	0.0005	0.0004
Production	0.0234	0.0130	0.0043	0.0014	0.0009	0.0017	0.0007	0.0007	0.0004	0.0001	0.0008	0.0010	0.0010	0.0012
Transportation	0.0332	0.0166	0.0039	0.0012	0.0006	0.0008	0.0002	0.0002	0.0003	0.0001	0.0007	0.0008	0.0009	0.0007

TABLE 3B. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Expansion (January 2016-December 2017). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 2 million person-month observations. Working-age (18-65) civilian population only.

t	t+1	Protective Service	Food	Personal Care	Cleaning & Maintenance	Sales	Office & Admin	Agriculture	Construction & Extraction	Installation & Repair	Production	Transportation
OLF	0.0011	0.0065	0.0017	0.0030	0.0004	0.0026	0.0043	0.0002	0.0003	0.0010	0.0010	0.0009
U	0.0045	0.0274	0.0131	0.0159	0.0306	0.0273	0.0011	0.0001	0.0013	0.0020	0.0030	0.0019
Managers	0.0006	0.0022	0.0014	0.0013	0.0072	0.0075	0.0006	0.0004	0.0005	0.0004	0.0010	0.0007
Business & Financial	0.0008	0.0012	0.0016	0.0007	0.0068	0.0123	0.0001	0.0001	0.0008	0.0007	0.0014	0.0013
Math & Computer	0.0009	0.0011	0.0010	0.0007	0.0038	0.0053	0.0001	0.0001	0.0015	0.0024	0.0021	0.0020
Architecture & Engineering	0.0008	0.0006	0.0005	0.0011	0.0038	0.0042	0.0001	0.0001	0.0026	0.0045	0.0040	0.0020
Science	0.0006	0.0010	0.0010	0.0011	0.0027	0.0037	0.0015	0.0010	0.0010	0.0011	0.0031	0.0008
Social Work	0.0014	0.0012	0.0030	0.0006	0.0033	0.0071	0.0001	0.0001	0.0006	0.0007	0.0011	0.0014
Legal	0.0006	0.0002	0.0005	0.0001	0.0031	0.0075	0.0000	0.0000	0.0010	0.0008	0.0004	0.0010
Teachers	0.0004	0.0017	0.0030	0.0004	0.0026	0.0043	0.0002	0.0002	0.0003	0.0003	0.0010	0.0009
Arts & Media	0.0007	0.0020	0.0027	0.0006	0.0079	0.0072	0.0001	0.0001	0.0013	0.0020	0.0030	0.0019
Healthcare	0.0007	0.0014	0.0018	0.0005	0.0026	0.0061	0.0001	0.0001	0.0005	0.0004	0.0010	0.0007
Healthcare Support	0.0010	0.0044	0.0099	0.0028	0.0049	0.0093	0.0003	0.0003	0.0007	0.0003	0.0025	0.0026
Protective Service	0.9260	0.0023	0.0017	0.0009	0.0042	0.0057	0.0002	0.0002	0.0023	0.0014	0.0023	0.0038
Food	0.0011	0.8779	0.0032	0.0036	0.0097	0.0078	0.0003	0.0003	0.0028	0.0013	0.0042	0.0047
Personal Care	0.0006	0.0053	0.8758	0.0025	0.0051	0.0089	0.0003	0.0003	0.0010	0.0007	0.0024	0.0029
Cleaning & Maintenance	0.0008	0.0053	0.0029	0.8851	0.0043	0.0053	0.0013	0.0013	0.0077	0.0045	0.0056	0.0054
Sales	0.0008	0.0052	0.0024	0.0017	0.8996	0.1115	0.0004	0.0004	0.0021	0.0021	0.0036	0.0043
Office & Admin	0.0011	0.0033	0.0027	0.0018	0.0097	0.9069	0.0003	0.0003	0.0012	0.0011	0.0036	0.0048
Agriculture	0.0017	0.0036	0.0015	0.0073	0.0033	0.0045	0.8483	0.0034	0.0072	0.0034	0.0075	0.0125
Construction & Extraction	0.0012	0.0027	0.0009	0.0043	0.0032	0.0032	0.0007	0.0007	0.8967	0.0055	0.0068	0.0072
Installation & Repair	0.0011	0.0016	0.0009	0.0052	0.0061	0.0037	0.0006	0.0006	0.0092	0.9157	0.0065	0.0069
Production	0.0012	0.0031	0.0015	0.0031	0.0053	0.0067	0.0009	0.0009	0.0073	0.0039	0.9079	0.0094
Transportation	0.0013	0.0038	0.0018	0.0036	0.0063	0.1012	0.0012	0.0012	0.0058	0.0030	0.0093	0.8935

TABLE 4. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Covid Recession phase II (June 2020-November 2020). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 400,000 person-month observations. Working-age (18-65) civilian population only.

	OLF	U	Managers & Financial	Business	Computer & Math	Architecture & Engineering	Science Work	Social	Legal	Teachers	Arts & Media	Healthcare Support
OLF	.8820656	.0481591	.0046814	.0017245	.0012592	.000706	.0003227	.0009445	.000452	.0045271	.0018562	.0028426
U	.1837138	.5242696	.017179	.0079342	.003087	.0021891	.0012723	.0027762	.0010674	.0223408	.008656	.0097546
Managers	.0156164	.0115653	.9267509	.0051009	.0032698	.0012319	.0006222	.0008287	.0005625	.0018363	.0015792	.0016713
Finance	.0165501	.0106044	.0123658	.9163433	.0035931	.0010588	.0009825	.0014997	.0011013	.0018369	.0016406	.0024483
Computer	.0113892	.0065333	.0101073	.0057796	.9320137	.0053171	.001619	.0005966	.0006517	.0025121	.0015234	.0021248
Engineering	.0122195	.0074532	.0101404	.000873	.0103476	.9312012	.001136	0	0	.0008563	.0016479	.0002978
Science	.0145469	.0131907	.0053663	.0045774	.0061835	.0024624	.9261724	.0034948	.000867	.0051179	.0018859	.0034112
Social Work	.0176579	.0127293	.0047299	.0040065	.0011471	.0003094	.0020836	.9267564	.0008914	.0040642	.0007526	.0066895
Legal	.0113789	.0078927	.0072714	.0051794	.0027199	.0000573	.000544	.0010618	.940248	.0024873	.0008443	.0042509
Teachers	.0304496	.0280129	.0047644	.0030622	.0016213	.0004048	.0005403	.0022521	.0004456	.9109509	.0014212	.0024318
Arts & Media	.0309799	.0356853	.0101816	.0028036	.0034645	.0014429	.0006467	.0007303	.0006112	.0037077	.885794	.0023067
Healthcare	.0173719	.0094304	.0058651	.0025584	.0011544	.0004237	.0010851	.0014848	.0006134	.0024979	.0002355	.9361602
HCSupport	.0368823	.0192472	.0030865	.0023552	.001104	0	.0003726	.00078	0	.0023401	.000778	.0177639
Protective	.0265331	.0142496	.004023	.0019632	.0016279	.0007049	0	.0001354	0	.0030684	0	.0022618
Food	.063215	.0393747	.0065103	.0019637	.0007645	.0005513	0	.0005831	.0000113	.0020196	.0003654	.0026282
Personal	.058718	.0346975	.0063057	.0018558	.0018321	0	.0007121	.0023015	.0000512	.0025554	.0012485	.0035988
Maintenance	.0467481	.0298774	.0039968	.000737	.0009757	.0003125	0	.0006075	.000188	.0016727	.0001366	.0008876
Sales	.0319547	.0214484	.0086036	.0037104	.0021076	.0005557	.0002528	.0007615	.0004667	.0021897	.001636	.0022264
Office	.0330247	.0176699	.0077509	.0046954	.0015246	.0007361	.0004072	.0009352	.0005142	.0022765	.0009396	.0020608
Agriculture	.0696063	.0297242	.0147073	.0001454	0	.0008706	.0021374	0	.0002514	.0002492	.0010457	.0002066
Construction	.0332696	.0274241	.0087412	.0009003	.0005535	.0013637	.0002358	.0000854	0	.0002613	.001175	.0007096
Installation	.0200514	.015624	.0063614	.0012656	.0026072	.003267	.0007433	.0005422	0	.0006526	.0006642	0
Production	.0255375	.0237644	.0042003	.0018229	.0012921	.0017152	.0003729	.0001154	.000076	.0013904	.0002927	.0011185
Transportation	.0387775	.0289339	.0048421	.0016062	.0012026	.0006059	.0003351	.0006541	.0002284	.0005266	.0005424	.0008953



TABLE 4B. Monthly flows across occupations, unemployment (U), and out-of-labor force (OLF) status during the Covid Recession phase II (June 2020-November 2020). Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 400,000 person-month observations. Working-age (18-65) civilian population only.

t	t+1	Protective Service	Food	Personal Care	Cleaning & Maintenance	Sales	Office & Admin	Agriculture	Construction & Extraction	Installation & Repair	Production	Transportation
OLF	.0014198	.0068199	.0044433	.0037014	.0078445	.0098959	.0010207	.0039351	.0014375	.0028844	.0052141	
U	.0041554	.0318453	.0183153	.0147527	.0323011	.0333072	.0017903	.0211086	.0066369	.0179197	.0271542	
Managers	.0006206	.0013768	.0012369	.0010918	.0058322	.0076261	.0005184	.0039332	.0015775	.0019392	.002763	
Finance	.0008819	.0015126	.0012842	.0008869	.0075683	.012874	.0001085	.0005228	.0007614	.0009909	.001559	
Computer	.0016037	.0003677	.0010502	.000411	.0044248	.0052547	0	.0007303	.0016689	.0020916	.0020235	
Engineering	.000654	.0011436	.0003804	.0006887	.0050441	.0049942	0	.0025153	.0027032	.0042686	.0006292	
Science	.0001949	.0002838	.0010959	.0002743	.0014102	.0046403	0	.0005585	.0015832	.0008357	.0009695	
Social Work	.0007787	.00024	.0010029	.0014286	.0025294	.0076231	0	.0002113	.0009926	.0016606	.0009906	
Legal	.0011603	.0004992	.0005498	.001755	.0034197	.0042693	0	.001495	0	.0011367	.0015459	
Teachers	.0003935	.0007571	.0015611	.0005539	.0027535	.005237	.0002132	.0004092	.0002852	.000421	.0005851	
Arts & Media	.0009915	.0013641	.0029795	.0003396	.0047133	.0050482	0	.0017144	0	.0026627	.000709	
Healthcare	.0000367	.0004782	.0012519	.0006285	.0031215	.0060563	0	.0006064	.0006753	.0011523	.0016254	
HC/Support	.001705	.004648	.0123434	.0014376	.0062649	.0126252	.0005199	.0005002	.0013111	.0021548	.0006494	
Protective	.9185666	.0015095	.0018306	.0018303	.004084	.0066917	.000251	.00205	.0020414	.0035009	.0021522	
Food	.0012886	.837024	.0020844	.0052085	.0088907	.0110703	.0004325	.0036711	.0019718	.0029423	.0064724	
Personal	.0006763	.0033621	.84345	.0038379	.0056228	.0107094	.0004521	.0013977	.0006348	.0030159	.0031186	
Maintenance	.0012283	.0032929	.0044492	.864494	.0058385	.0083365	.0009534	.0080219	.0058018	.004429	.0061636	
Sales	.0004363	.0034255	.0027842	.001449	.8912552	.0114539	.000252	.0020664	.0016232	.0030535	.005003	
Office	.0011285	.0029196	.0018298	.0019341	.0096149	.8953423	.0002018	.0014371	.0014549	.0029591	.0057743	
Agriculture	.0032482	.0021983	.0027364	.0048829	.0033872	.003556	.8292954	.0021922	.0089968	.0073205	.0109737	
Construction	.0011314	.0023966	.0010889	.005149	.0033157	.0050393	.0010779	.8866204	.0039908	.0078646	.0074563	
Installation	.0007973	.0017318	.0010794	.006014	.0044727	.0043321	.0008065	.006753	.9097118	.0062164	.0057108	
Production	.0010463	.0018728	.0014183	.0020165	.0075369	.0073678	.0007691	.007999	.0046916	.8834423	.0094439	
Transportation	.0014514	.0031909	.0008538	.0042342	.0068091	.0099947	.0008212	.0082389	.0031159	.0085131	.872365	





TABLE 6. Monthly population shares of different occupations, unemployment (U), and out-of-labor force (OLF) during the Covid Recession. Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 650,000 person-month observations. Working-age (18-65) civilian population only.

	OLF	U	Managers	Business & Financial	Computer & Math	Architecture & Engineering	Science	Social Work	Legal	Teachers	Arts & Media	Healthcare	Healthcare Support
2/2020	0.2613	0.0297	0.0875	0.0369	0.0281	0.0137	0.0071	0.0125	0.0080	0.0421	0.0155	0.0454	0.0164
3/2020	0.2596	0.0291	0.0886	0.0392	0.0287	0.0141	0.0073	0.0123	0.0082	0.0442	0.0154	0.0447	0.0167
4/2020	0.2615	0.0341	0.0893	0.0388	0.0291	0.0134	0.0071	0.0120	0.0088	0.0445	0.0156	0.0451	0.0169
5/2020	0.2952	0.1007	0.0830	0.0368	0.0277	0.0137	0.0072	0.0115	0.0078	0.0380	0.0124	0.0418	0.0150
6/2020	0.2838	0.0913	0.0859	0.0359	0.0301	0.0133	0.0076	0.0126	0.0087	0.0386	0.0127	0.0441	0.0137
7/2020	0.2721	0.0801	0.0874	0.0347	0.0309	0.0135	0.0080	0.0131	0.0086	0.0391	0.0133	0.0442	0.0142
8/2020	0.2693	0.0735	0.0863	0.0362	0.0294	0.0130	0.0076	0.0124	0.0087	0.0371	0.0130	0.0452	0.0137
9/2020	0.2682	0.0608	0.0893	0.0360	0.0270	0.0144	0.0075	0.0121	0.0086	0.0387	0.0136	0.0459	0.0147
10/2020	0.2753	0.0540	0.0864	0.0340	0.0254	0.0146	0.0069	0.0122	0.0085	0.0407	0.0129	0.0440	0.0161
11/2020	0.2706	0.0466	0.0879	0.0336	0.0262	0.0148	0.0072	0.0120	0.0083	0.0431	0.0129	0.0434	0.0176

TABLE 6B. Monthly population shares of different occupations, unemployment (U), and out-of-labor force (OLF) during the Covid Recession. Selected occupations, two-digit Standard Occupational Classification taxonomy. Source: Current Population Survey microdata from the Bureau of Labor Statistics. N= approx. 650,000 person-month observations. Working-age (18-65) civilian population only.

	Protective Service	Food	Personal Care	Cleaning & Maintenance	Sales	Office & Admin	Agriculture	Construction & Extraction	Installation & Repair	Production	Transportation
2/2020	0.0145	0.0379	0.0243	0.0235	0.0684	0.0792	0.0052	0.0370	0.0222	0.0372	0.0461
3/2020	0.0131	0.0384	0.0239	0.0234	0.0658	0.0800	0.0049	0.0379	0.0221	0.0363	0.0462
4/2020	0.0136	0.0355	0.0235	0.0237	0.0637	0.0824	0.0045	0.0358	0.0222	0.0361	0.0429
5/2020	0.0119	0.0186	0.0156	0.0191	0.0537	0.0711	0.0050	0.0296	0.0196	0.0286	0.0364
6/2020	0.0133	0.0220	0.0163	0.0199	0.0536	0.0720	0.0050	0.0307	0.0207	0.0306	0.0377
7/2020	0.0139	0.0260	0.0186	0.0217	0.0599	0.0731	0.0039	0.0334	0.0204	0.0330	0.0369
8/2020	0.0150	0.0276	0.0205	0.0220	0.0631	0.0758	0.0041	0.0355	0.0207	0.0340	0.0362
9/2020	0.0148	0.0275	0.0219	0.0223	0.0646	0.0789	0.0039	0.0362	0.0216	0.0330	0.0384
10/2020	0.0139	0.0312	0.0204	0.0239	0.0628	0.0790	0.0045	0.0365	0.0215	0.0349	0.0401
11/2020	0.0141	0.0321	0.0212	0.0243	0.0639	0.0798	0.0050	0.0363	0.0213	0.0364	0.0414