Benchmarking SWAA
Estimates of the Prevalence of Working From Home

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26 January 2023
SWAA Aligns with the American Community Survey, Google Mobility, and Household Pulse Survey Measures of Working from Home

- The American Community Survey measures the share of employees who work fully from home.
  - On a comparable sample – employees aged 20-64 earning at least $10,000 – the ACS finds 18.39% of employees are fully remote while SWAA finds 19.97%

- Google Workplace Mobility data measures the reduction in commuting days to workplaces across all cellphone users.
  - Google records a 24.4% reduction in daily trips to workplaces, which when added to an ATUS-based estimate of 5% of days WFH pre-pandemic (see Barrero et al, 2021), yields a 29.4% share of WFH days. The corresponding SWAA estimate is 28.2%.

- The Household Pulse Survey measures the amount of working from home 1-2, 3-4, or 5+ days in the previous week at the individual level. For an aligned sample by age and income from June 2022 to December they estimate 30.2% of days WFH a week compared to 29.3% of days for SWAA

- On all three measures our SWWA data aligns extremely closely and levels and time series, giving us confidence in the accuracy of the analysis using this.
SWAA vs American Community Survey (ACS)

SWAA vs Google Workplace Mobility

SWAA vs. Household Pulse (HHP) Survey
The Exact ACS Question

Note that respondees are directed to selected the method of transportation used for most of the distance, so that individuals that commute for 1+ day a week (even if they WFH the other days) should choose that commuting option.

So the ACS measures the share of respondees that WFH every day.
SWAA and ACS Align Very Closely with 19.97% and 18.39% Share of Fully Remote Workers on a Sample of Workers Aged 20-64 Earning $10,000+

<table>
<thead>
<tr>
<th>Percent WFH</th>
<th>SWAA 20-64, $10k</th>
<th>ACS Full Sample</th>
<th>SWAA 20-64, $10k</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.97</td>
<td>17.89</td>
<td>18.39</td>
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**Notes:** SWAA data is pooled from November - December 2021. For all SWAA WFH measures, we dropped individuals who sped through the survey. The share fully remote in SWAA shows the share of individuals who reported working from home 100% of the past week. This was constructed by creating an indicator variable if an individual worked remotely more than 100% of the time and then taking the average for the sample period. ACS data is from 2021. The ACS measures show the share of individuals who *usually* worked from home last week. In the last column we restrict to individuals who are 20-64 and earned at least $10,000 last year in order to match the SWAA sample population.

N = 6,969
SWAA and ACS Measures are Similar for Fully Remote Workers, while ACS does not distinguish hybrid-WFH from fully in person workers

Notes: SWAA data is pooled from November - December 2021. For all SWAA WFH measures, we dropped individuals who sped through the survey. The share fully remote in SWAA shows the share of individuals who reported working from home 100% of the past week. This was constructed by creating an indicator variable if an individual worked remotely more than 100% of the time and then taking the average for the sample period. ACS data is from 2021. The ACS measures show the share of individuals who usually worked from home last week. In the last column we restrict to individuals who are 20-64 and earned at least $10,000 last year in order to match the SWAA sample population.

N = 6,969
SWAA vs American Community Survey (ACS)

SWAA vs Google Workplace Mobility

SWAA vs. Household Pulse (HHP) Survey
Google Workplace Mobility Measures Daily Trips

- Using data from location tracker on cellphones Google calculates changes in trip frequency and posts this on https://www.google.com/covid19/mobility/

- We use their change from the January 2020 based for “Workplace trips” on weekdays until October 2022 when Google stopped producing the data.

- To convert this to a measure of days worked from home we add this reduction in workplace trips to the baseline 5% level of working from home from ATUS measured in the US pre-pandemic in 2018.
Monthly SWAA aligns with US Google workplace mobility data

The Percent of Workdays Performed at Home: Two Indicators

Source: Google Workplace Cellphone Mobility Data from https://www.google.com/covid19/mobility/ measured as the daily deviation of workplace trips from the January 3 to February 6, 2020 average. Reported here as a monthly average of weekdays, baselined at 5% in January 2020 to match pre-pandemic values from ATUS. SWAA is the amount of full paid working days done from home based on the the Survey of Working Arrangements and Attitudes from www.wfhresearch.com minus the pre-pandemic estimate based on the American Time Use Survey as reported in Barrero, Bloom, and Davis (2021).
SWAA vs American Community Survey (ACS)

SWAA vs Google Workplace Mobility

SWAA vs. Household Pulse (HHP) Survey
The Household Pulse Survey asks about the frequency of WFH

• Question:

  In the last 7 days, have you or any of the people in your household teleworked or worked from home?
   1) Yes, for 1-2 days
   2) Yes, for 3-4 days
   3) Yes, for 5 or more days
   4) No
Monthly SWAA aligns with a comparable measure constructed from 2022 data from the Census Household Pulse Survey

Notes: Both the SWAA and HHP series estimate the share of full paid days done from home. SWAA data is for May 2020 to December 2022. We drop individuals who sped through the survey and focus on persons aged 20 to 64 who earned at least $20,000 in 2019 or 2021, reweighting to match the CPS on age, sex, education and earnings. See Barrero, Bloom, and Davis (2021) for more details. HHP data focus on workers aged 20 to 64 whose household income is at least $25,000 (which is the closest income bracket to our $20,000 cut-off). We assign 30% of days worked from home at the individual level if the respondent did so responded “Yes, for 1-2 days;” we assign 70% if they said “Yes, for 3-4 days;” 100% if they said “Yes, for 5 or more days;” and 0 for “No.”
References
