Puget Sound Regional Household Travel Survey (HTS) Program

2022 January 20



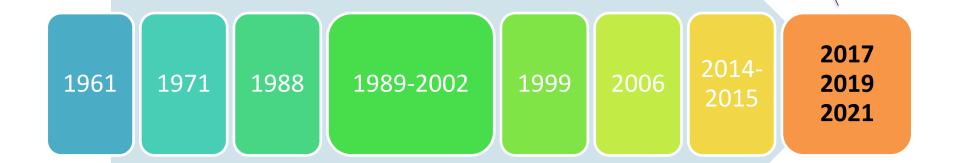
Presentation Highlights

- What is the Household Travel Survey (HTS) Program?
- Finishing the 2021 survey:
 Dataset publication in March
- Starting the 2023 survey:
 Call for "add-on" data samples



Puget Sound Regional Travel Studies

More frequent snapshots allows for more timely analysis and monitoring of trends. Data can be combined.





2017-2019-2021 HTS Program

Goal: The surveys seek to capture quality, <u>regionally</u> <u>representative</u> data for <u>residents</u>' activity and travel behavior on a <u>typical weekday</u>.

6-year program, 3 waves

- 2017 and 2019 completed
- 2021 data to be published in March

Motivations

- Frequent snapshots, ability to combine years
- "Smoother" budgets and labor roles
- Opportunities for "add-on" samples



Uses of the HTS Data

Analysis

- Most recent regional travel patterns
- Trends: comparisons with previous surveys

Model development

- SoundCast
 - Activity-based (travel) model system
 - Estimate activity/travel choice models
- UrbanSim
 - Parcel-based land use model system
 - Estimate residential location choice model



Information in the HTS Data

Who? Household, person socio-demographics

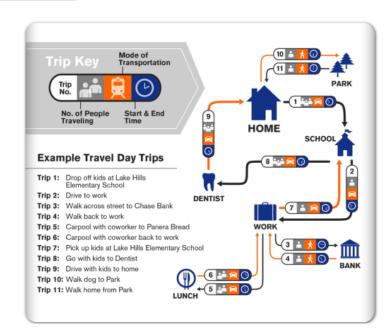
What? Vehicles; Homes; Work/school status

Where? Home/work/school locations; Activity/trips

When? Home relocations; Activity/trip times

Why? Home location factors; Trip purposes; Attitudes

How? Usual ways to commute; Modes; Deliveries





Planning/Policy-Relevant Questions

often? What trips do they make?

Additional Data is Needed to Fully **HTS Can Help Answer: Answer:** How does transit use vary by income, race? How do people access transit? Where do visitors go in the region? What travel modes do they use? How does parking relate to car ownership and use? How many car trips does the How much do ride-hail drivers average resident make? (e.g., Lyft, Uber operators) drive without any passengers? Who has been displaced from their How many airplane trips does the average resident make? homes? From where and why? How many home deliveries does the average resident get a day? Where does **freight** travel around the region? Which workers telecommute and how



Common Metrics for HTS Data

Metrics:	Example:
Counts and distributions	81% of households own one or more cars.
Person/Vehicle trip rates	The average person makes 4.5 trips/day.
Person-/Vehicle-miles traveled	The average person travels 29 miles/day.
Vehicle occupancy factors	The average personal car on the road has 1.9 people in it.
Person-/Vehicle-time use	The average personal car is used for 65 minutes/day.
Top box or top two box	28% of people are very or somewhat interested in using an autonomous car in the future.
Elasticity or shares	On average, people value their time at \$25/hour while traveling.



New Data in the 2021 HTS

- Work location and commuting mode before 2020 March 15 AND now
- Telecommuting before 2020 March 15 AND now
- Employment changes due to COVID-19
- Employment industry
- Home relocation because of COVID-19





Future of Puget Sound Regional HTS

Current HTS Program

- Produces timely, relevant data to reveal trends and support long-range regional planning and policy needs
- Provides flexibility for member agencies to purchase "add-on" data samples in each survey year focused on their jurisdictions or areas of interest

Next HTS Program

- Developing second multi-year, multi-wave HTS Program
- Planning for a spring 2023 data collection period to help support the 2026 Regional Transportation Plan
- Considering 2025 and 2027 surveys (to be confirmed)



2023 "Add-on" Data Sample FAQ

What is an add-on data sample?

- Puget Sound Regional HTS data is primarily designed for use at regional/county levels –
 more survey responses are needed for use in smaller geographies
- Members can "add-on" to the regional HTS & buy more data in areas of interest
- Previous add-on partners include cities of Bellevue, Redmond, Seattle, & Tacoma

How much would an add-on data sample cost in the 2023 HTS?

- Costs can vary depending on questions posed & people/household qualities of interest
- Assume ~\$200/household & at least ~500 households for rough budgeting purposes
- PSRC staff can help determine appropriate data sample sizes

What questions will be included in the 2023 HTS?

- 2023 survey questions will be very similar to ones asked in the current program
- See the 2019 questionnaire: https://www.psrc.org/sites/default/files/psrc2019-questionnaire-files.zip



2023 "Add-on" Data Sample FAQ

How will the 2023 HTS project be managed? How will add-on partners be involved?

- PSRC will manage the project & hire a consultant to collect/deliver the data
- Add-on partners will help define scope of work (e.g., sampling needs in areas of interest) & provide support for outreach (e.g., official mailings encouraging survey responses)

Can an add-on data sample emphasize some parts of a jurisdiction or certain communities?

- Yes, some places can be oversampled (e.g., Redmond focused on their downtown)
- Similar for different populations (e.g., PSRC aims for representation of People of Color, rural communities, transit users, & other relatively smaller groups)

How does HTS data compare to other data?

- Survey data can reveal patterns of behavior (plus sometimes the reasons behind them) AND relate them directly to characteristics of people & households
- Other observational data (e.g., counts, location-based service) are less expensive but usually cannot directly link to people/households & may have uncorrected biases



Proposed 2023 HTS Timeline

Jan: RSC presentation & follow-up announcement

Mar: Seek contract authority for consultant services (PSRC portion only)

Apr: Member commitments due for "add-on" data samples in the 2023 HTS

May: Issue Request for Proposals

Jun: Seek contract authority for consultant services (PSRC & "add-on" portions)

Jul/Aug: Select consultant & negotiate scope of work;

Sign MOUs with "add-on" members; Sign consultant contract

Sep: Start 2023 HTS project with consultant

2023 Apr-Jun: Data collection

Jul: Start collaborative process with consultants to clean & weight data

2024 Mar: Final data delivery & publication



