

REGIONAL TRAVEL SURVEY



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2017-2018 REGIONAL TRAVEL SURVEY

Status Report #16

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Presentation Outline

- RTS vs. State of the Commute Survey
- Overview of Regional Travel Survey (RTS) files
- Preliminary findings of select indicators from the RTS
- Next steps

Regional Travel Survey vs. State of the Commute Survey

COG's Department of Transportation Planning conducts two random sample surveys focused on trips. Both use an address based sampling methodology.



Once a decade comprehensive survey of all types of trips (both work and non-work trips). Analyzes detailed household and person trips to develop COG/TPB's regional travel demand forecasting model.



Triennial survey focused on commute trips. Analyzes commute patterns and attitudes to evaluate the effectiveness of COG/TPB's commuter services programs.

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Preliminary Findings of Select Indicators



Overview of Regional Travel Survey Files

Household File

Household

- Size
- Income
- Number of licensed drivers
- Number of workers
- Number of students

Housing

- Type
- Tenure

Vehicles and Bicycles

- Number of vehicles
- Number of bicycles

Person File

Demographics

- Race/Ethnicity
- Age
- Gender
- Number of jobs
- Work from home

Typical Commute

- Usual mode
- Frequency of telework
- Work location
- Employer incentives

All Weekday Travel (including work trips)

- Frequency of travel option
- Use of other modes
- Delivery services

Vehicle File

Vehicle Characteristics

- Make and model
- Year
- Fuel type
- Type of toll transponder

Trip File

Trip Details

- Origin and destination
- Start and end times
- Mode of travel
- Purpose/activities
- Transit access and egress



Household Size (%)

Household File

	1 Person	2 Persons	3 Persons	4 Persons	5+ Persons
Core	40.0	31.0	13.7	8.9	6.5
Inner Suburb	23.2	29.6	18.3	15.8	13.2
Outer Suburb	18.2	29.5	18.1	17.9	16.4
Regionwide	26.1	29.9	17.2	14.6	12.3
Regionwide, '07/'08*	27.7	29.9	16.4	14.1	11.9

* The data from the 2007/2008 Household Travel Survey were reweighted to match the weighting procedures used in the 2017/2018 Regional Travel Survey.

Household Income (%)

Household File

	Less than 25K	25-50K	50K-75K	75-100K	100K-150K	150K-200K	More than 200K	Prefer not to answer
Core	7.6	7.6	10.1	12.5	19.5	12.8	16.8	13.1
Inner Suburb	4.7	7.8	10.2	12.1	21.0	12.4	14.0	17.9
Outer Suburb	3.1	7.3	10.1	12.4	22.1	14.8	13.2	17.0
Region-wide	5.0	7.6	10.2	12.2	20.9	13.0	14.5	16.6



Workers per Household (%)

Household File

	No Worker	1 Worker/HH	2+ Worker/HH
Core	16.3	44.2	39.6
Inner Suburb	18.1	35.7	46.2
Outer Suburb	16.7	34.2	49.1
Regionwide	17.4	37.4	45.3
Regionwide, '07/'08*	16.8	40.1	43.1

* The data from the 2007/2008 Household Travel Survey were reweighted to match the weighting procedures used in the 2017/2018 Regional Travel Survey.



Number of Vehicles (%)

Household File

	No Vehicle	1 Vehicle	2 Vehicles	3+ Vehicles
Core	24.5	49.6	21.8	4.1
Inner Suburb	4.4	32.5	43.4	19.8
Outer Suburb	1.2	21.4	45.4	32.1
Regionwide	8.5	34.1	38.7	18.7
Regionwide, '07/'08*	6.9	32.4	40.9	19.9

* The data from the 2007/2008 Household Travel Survey were reweighted to match the weighting procedures used in the 2017/2018 Regional Travel Survey.



Frequency of Travel Options (%)

Person File

Travel Option	3-5 days a week	1-2 days a week	A few days per month	A few days per year	Weekends only	Never
Carpool or vanpool to work on weekdays	6.9	2.2	1.6	2.7	N/A	86.6
HOV lane (weekday peak travel)	4.4	2.4	4.2	8.8	N/A	80.3
HOT lane/toll road/toll bridge on weekdays	4.9	2.9	6.2	10.8	N/A	75.2
Carshare	0.2	0.3	0.7	1.8	0.6	96.4
Ride-hailing	2.2	3.5	9.4	15.9	4.4	64.6
Bicycle and bikeshare	4.1	2.2	2.6	4.0	3.7	83.3
Public transit	22.2	4.2	8.0	18.4	2.6	44.5



Delivery Services to Home on Weekdays (%)

Person File

	Package	Food	Service	Any Type
Core	28.6	4.1	6.4	34.3
Inner Suburb	28.1	3.7	6.6	34.0
Outer Suburb	24.6	2.2	5.6	29.5
Regionwide	27.5	3.5	6.3	33.1



Year and Fuel Type

Vehicle File

Year	%	Fuel Type	%
1980 or older	0.5	Gas	92.0
1981-1990	0.6	Diesel	1.2
1991-2000	6.8	Plug-In Hybrid	0.5
2001-2005	16.1	Hybrid	5.1
2006-2010	24.8	Electric	0.4
2011-2015	34.7	Flex Fuel	0.7
2016 and newer	16.5	Other	0.1

Toll Transponders

Vehicle File

	E-ZPass	E-ZPass Flex	Other Transponder	No Transponder
Core	47.7	11.2	0.6	40.5
Inner Suburb	45.5	10.5	0.5	43.5
Outer Suburb	37.6	15.0	0.4	46.9
Regionwide	43.6	11.9	0.5	44.0



Looking Ahead: Next Steps

- Post-survey processing (e.g., data cleaning, trip linking, and factoring weights) will continue through 2019.
- RTS estimates of weekday travel and daily trip making will be compared with independent estimates of regional VMT and daily transit ridership statistics.
- Trip generation rates will be reviewed for reasonableness.
- Final weighted file and documentation for the TPB modeled area anticipated by the end of FY 2020.

Seeking Your Input

- What questions are you hoping the RTS can help answer?
- Your feedback will influence our future tabulation plans

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