



Applied Management & Planning Group

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Mr. Bourgeau;

Enclosed you will find a nine-track tape and set of file documentation. The tape is unlabeled & has five files on it.

File one is filler and should be skipped.

File two is the Household data file. The record length is 101, there are 100 records per block, & the block size is 10,100.

File three is the person data file. The record length is 72, there are 100 records per block, & the block size is 7,200.

File four is the activity data file. The record length is 310, there are 100 records per block, & the block size is 31,000.

File five is the trip data file. The record length is 145, there are 100 records per block, & the block size is 14,500.

The file documentation is in the same format as the previous version. I do not think that there are any changes to the variable layout, just additional variables for the house hold file.

If you have any questions or problems, please call me or Mary Kay Stout.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'B. Ehrmann', is written over a horizontal line.

Burton Ehrmann
Database Manager

SEMCOG O-D DATA
Household File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
ID	Household I.D. Number		1	5	5		
AREA	Area/County of Household		6	6	1	1 - Detroit 2 - Wayne 3 - Oakland 4 - Macomb 5 - Monroe 6 - St. Clair 7 - Livingston 8 - Washtenaw	
CARS	Number of Cars & Mini-Vans Available	Recruit	7	8	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	
TRUCKS	Number of Trucks & Vans Available	Recruit	9	10	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	

SEMCOG O-D DATA
Household File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
TOT_VEH	Number of Cars/Vans/Trucks Available	Recruit	11	12	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	
MOTO_BKE	Number of Motorcycles & Mopeds Available	Recruit	13	14	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	
TOT_HH	Total Number of People in Household	Recruit	15	16	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight 09 - Nine 10 - Ten or More 98 - Refused 99 - Don't Know	

SEMCOG O-D DATA
Household File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
UNDER_5	Number in Household Less Than 5 Years Old	Recruit	17	18	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight 09 - Nine 10 - Ten or More 98 - Refused 99 - Don't Know	
OVER_5	Number in Household 5 Years Old & Older	Recruit	19	20	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight 09 - Nine 10 - Ten or More 98 - Refused 99 - Don't Know	
DAY_NUM	Assigned day number for survey		21	22	2		
REC_CELL	Recruitment cell number		23	24	2	01 - 0 Veh & 1+ People 02 - 1+ Veh & 1 Person 03 - 1 Veh & 2 People 04 - 1 Veh & 3 People 05 - 1 Veh & 4+ People 06 - 2+ Veh & 2 People 07 - 2 Veh & 3 People 08 - 2 Veh & 4+ People 09 - 3+ Veh & 3 People 10 - 3+ Veh & 4+ People	Values 11-20 are the same cells for the St. Clair sample Values 21-30 are the same cells for the Washtenaw sample
PHONE	Phone number		25	34	10		

SEMCOG O-D DATA
Household File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
DAY_WEEK	Assigned day of the week for survey		35	35	1	1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday	
DWELLING	Household dwelling type		36	36	1	1 - Single Family Detached 2 - Rowhouse/Duplex 3 - Apartment/Flat 4 - Mobile Home 5 - Group Quarters 6 - Other	
NUM_UNIT	Number of units in your complex		37	40	4	9999 - Don't Know/Refused	
OTR_DWEL	Other dwelling type		41	50	10		
DD5ANDUP	Number of people 5 & older in household on diary day		51	52	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight 09 - Nine 10 - Ten or More 98 - Refused 99 - Don't Know	
AUTOS	Number of cars, vans, and light trucks in household on diary day		53	54	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	

SEMCOG O-D DATA
Household File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
HHINCOME	Total annual household income		55	56	2	01 - Less than \$10,000 02 - \$10,000 to < \$15,000 03 - \$15,000 to < \$25,000 04 - \$25,000 to < \$35,000 05 - \$35,000 to < \$50,000 06 - \$50,000 to < \$75,000 07 - \$75,000 to < \$100,000 08 - \$100,000 or more 98 - Refused 99 - Don't Know	
D_MONTH	Date (month) of diary day		57	58	2		Actual month diary completed
D_DAY	Date (day) of diary day		59	60	2		Actual day diary completed
CELL_COM	Composite sampling cell		61	62	2	01 - 0 Veh & 1+ People 02 - 1+ Veh & 1 Person 03 - 1 Veh & 2 People 04 - 1 Veh & 3 People 05 - 1 Veh & 4+ People 06 - 2+ Veh & 2 People 07 - 2 Veh & 3 People 08 - 2 Veh & 4+ People 09 - 3+ Veh & 3 People 10 - 3+ Veh & 4+ People	Sampling cell for total sample, including augmented sample for St. Clair and Washtenaw counties
EXPAN	Expansion Factor		63	71	9.4		
XCOORD	Latitude of Home Address	IS/TRAN	72	83	12.5		
YCOORD	Longitude of Home Address	IS/TRAN	84	95	12.5		
TAZ	TAZ Code of Home Address	3/TRAN	96	100	5	8777 - Out of region	
UAZ	Urbanized Area Zone		101	101	1	1 - Detroit 2 - Ann Arbor 3 - Port Huron 4 - All Other Areas	

SEMCOG O-D DATA
Person File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
ID	Household I.D. Number		1	5	5		
PERNUM	Person Number		6	7	2		
YEARBORN	Year of Birth		8	11	4		
RELATE	Relationship to Respondent		12	12	1	1 - Self 2 - Spouse 3 - Son/Daughter 4 - Father/Mother 5 - Brother/Sister 6 - Other Related 7 - Other Non-Related 9 - Refused	
SEX	Gender		13	13	1	1 - Male 2 - Female	
STUDENT	Enrolled in School		14	14	1	0 - Refused 1 - Not Enrolled 2 - Preschool/Nursery School 3 - K thru 8th 4 - 9th thru 12th (High School) 5 - College/Trade School 9 - Don't Know	
LICENSE	Have a Valid Drivers License		15	15	1	1 - Yes 2 - No	
EMPLOYED	Employment Status		16	16	1	1 - Employed Full-Time (30 Hrs. +) 2 - Employed Part-Time (< 30 Hrs.) 4 - Retired 5 - Homemaker 6 - Student 7 - Seeking Work 8 - Don't Know 9 - Refused	
MOREJOBS	Have More than One Job		17	17	1	1 - Yes 2 - No 3 - Don't Know/Refused	
NUM_JOBS	Total Number of Jobs		18	18	1	1 - One 2 - Two 3 - Three 4 - Four 5 - Five 9 - Don't Know/Refused	

SEMCOG O-D DATA
Person File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
INDUSTRY	Industry of Primary Job		19	20	2	01 - Construction 02 - Manufacturing 03 - Transport/Utilities 04 - Wholesale Trade 05 - Retail Trade 06 - Finance/Insurance 07 - Services 08 - Government 09 - Other 10 - Don't Know 11 - Refused	
OTHRJOB BUILD	Other Occupation Type of Building Worked In		21 41	40 42	20	01 - Office Building 02 - Commercial Building 03 - School Building 04 - Hospital Complex 05 - Other Institutional Building 06 - Utilities Facility 07 - Industrial Building 08 - Residential 09 - Other 10 - Don't Know 11 - Refused	
OTRBUILD WORKER	Other Building Type Are You Employed		43 63	62 63	20 1	0 - No 1 - Yes	
EXPAN	Expansion Factor		64	72	9.4		

SEMCOG O-D DATA
Activity File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
ID	Household I.D. Number		1	5	5		
PERNUM	Person Number		6	7	2		
ACTNUM	Activity Number		8	9	2		
ACT_PURP	Activity Purpose		10	11	2	01 - At Home 02 - P-Up/D-off at Work 03 - P-Up/D-off at School 04 - P-Up/D-off at Other 05 - At Work 06 - Work Related 07 - School/College 08 - Child Care 09 - Shopping 10 - Social Activity 11 - Personal Business 12 - Ride-Share Activity 13 - Other	
PURPOTHR	Other Activity Purposes		12	26	15		
HR_ARR	Hour Arrived at Activity		27	28	2		
MIN_ARR	Minute Arrived at Activity		29	30	2		
ARR_AMPM	Arrival Time A.M. or P.M.		31	31	1	1 - A.M. 2 - P.M.	
HR_LEV	Hour Left at Activity		32	33	2		
MIN_LEV	Minute Left at Activity		34	35	2		
LEV_AMPM	Left Activity A.M. or P.M.		36	36	1	1 - A.M. 2 - P.M.	
ACT_MIN	Minutes at Activity		37	40	4		
LOCATION	Place Name		41	60	20		
GIVE_ADR	Exact Address Given or Cross Streets		61	61	1	1 - Exact Address Given 2 - Cross Streets Given 3 - Refused to Give Info	
ST_NUM	Street Address Number		62	67	6		
ST_PRE	Street Address Direction		68	69	2		
ST_NAME	Street Address Name		70	89	20		
ST_SUFFIX	Street Address Type		90	93	4		
APT_NUM	Street Address Apartment Number		94	99	6		
CITY	City		100	127	20		
ST_1_P	Intersection Street 1 Direction		128	129	2		
ST_1_N	Intersection Street 1 Name		130	149	20		
ST_1_S	Intersection Street 1 Type		150	153	4		

SEMCOG O-D DATA
Activity File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
ST 2 P	Intersection Street 2 Direction		154	155	2		
ST 2 N	Intersection Street 2 Name		156	175	20		
ST 2 S	Intersection Street 2 Type		176	179	4		
TRAVMODE	Travel Mode Used		180	181	2	01 - Walk 02 - Car/Mini-Van 03 - Van/Light Truck 04 - Carpool/Vanpool 05 - Bus 06 - Shuttle/Campus Bus 07 - School Bus (K thru 12th) 08 - Taxi 09 - Bicycle 10 - Motorcycle/Moped 11 - Other 12 - Don't Know	
OTHRMODE	Other Mode of Travel		182	191	10		
DRIVER	Were you the Driver or Passenger in the Vehicle		192	192	1	1 - Passenger 2 - Driver 3 - Refused	
YOURCAR	(0 Auto Homes Only) Did you Borrow the Car		193	193	1	1 - Yes 2 - No 3 - Don't Know/Refused	
NUMINCAR	Total Number of People in the Car		194	195	2	99 - Don't Know/Refused	
PAY2PARK	Did you Pay to Park		196	196	1	1 - Yes 2 - No 3 - Don't Know	
COST	How much did you pay to park		197	202	6.2	999.99 - Don't Know/Refused	
RATE	Is this a...		203	203	1	1 - Daily Rate 2 - Monthly Rate 3 - Yearly Rate 4 - Other 5 - Don't Know/Refused 6 - Hourly 7 - Minute/Meter 8 - Semester/Quarter/School Permit	
TRANFARE	How much was your transit fare		204	209	6.2	999.99 - Don't Know/Refused	
CAR_AVAL	Was a Car Available for the trip		210	210	1	1 - Yes 2 - No	

SEMCOG O-D DATA
Activity File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
LAST_ACT	Was this the last thing you did		211	211	1	1 - Yes 2 - No	
WHY_HOME	Why were you home all day		212	212	1	1 - Temporary Illness 2 - Homebound 3 - Full-time Homemaker 4 - Work out of the home 5 - Day Off 6 - Vacation Day 7 - Other 8 - Refused	
OUT_TOWN	Was person out of town or home all day		213	213	1	1 - Home All Day 2 - Out of Town All Day 3 - Neither 4 - Don't Know 9 - No Activity Information Provided	There are 24 households containing one person who did not provide activity information; as per the agreement with SEMCOG, these HH were considered complete. Of these 24, 18 were four-person HH; five five-person HH; and, one seven-person HH.
MIL_ARV	Activity Arrival Time (Military Time)		214	217	4		
MIL_LEV	Activity Departure Time (Military Time)		218	221	4		
COUNTY	County Name	GIS/TRAN	222	231	10		
MCD	FIPS code for MCD	GIS/TRAN	232	236	5		
TAZ	TAZ Code for Location	GIS/TRAN	237	241	5		
OTHER	TAZ codes of all TAZs within approximately 50 feet from the geocoded location	GIS/TRAN	242	276	35	5 8777 - Out of region	
XCOORD	Latitude	GIS/TRAN	277	288	12.5		
YCOORD	Longitude	GIS/TRAN	289	300	12.5		
FLAG	Geocoding Flag	GIS/TRAN	301	301	1	0 - Reasonable Address but Failed to Match 1 - GIS Coded 4 - Hopeless - Not enough Info 5 - APB Coded 7 - Out of Region 8 - Corner of 2+ TAZs - Random Assign 9 - APB Address too new to geocode	
EXPAN	Expansion Factor		302	310	9.4		

SEMCOG O-D DATA
Trip File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
ID	Household I.D. Number		1	5	5		
PERNUM	Person Number		6	7	2		
OACTNUM	Activity Number (Origin)		8	9	2		
DACTNUM	Activity Number (Destination)		10	11	2		
TRIPNUM	Trip Number		12	13	2		
TRIPPURP	Trip Purpose	Matrix from SEMCOG	14	14	1	1 - Home Based Work 2 - Home Based Other 3 - Home Based Shopping 4 - Home Based School Preschool thru High School 5 - Home Based School Post Secondary 6 - Non Home Based Work 7 - Non Home Based Other	
EXPAN	Expansion Factor		15	23	9.4		
DEP_HR	Time of Departure (Hour)		24	25	2		
DEP_MIN	Time of Departure (Minute)		26	27	2		
DEP_AMPM	Time of Departure Flag (A.M. or P.M.)		28	28	1	1 - A.M. 2 - P.M.	
ARR_HR	Time of Arrival (Hour)		29	30	2		
ARR_MIN	Time of Arrival (Minute)		31	32	2		
ARR_AMPM	Time of Arrival Flag (A.M. or P.M.)		33	33	1	1 - A.M. 2 - P.M.	
TRIP_MIN	Length of time trip required in minutes		34	37	3		
O_TAZ	Origin TAZ		38	42	5		
O_XCOORD	Origin X-Coordinate		43	54	12.5		
O_YCOORD	Origin Y-Coordinate		55	66	12.5		
D_TAZ	Destination TAZ		67	71	5		
D_XCOORD	Destination X-Coordinate		72	83	12.5		
D_YCOORD	Destination Y-Coordinate		84	95	12.5		
TRAVMODE	Travel Mode Used		96	97	2	01 - Walk 02 - Car/Mini-Van 03 - Van/Light Truck 04 - Carpool/Vanpool 05 - Bus 06 - Shuttle/Campus Bus 07 - School Bus (K thru 12th) 08 - Taxi 09 - Bicycle 10 - Motorcycle/Moped 11 - Other 12 - Don't Know	

SEMCOG O-D DATA

Trip File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
LINKCODE	Linked/Pick-up/Drop-off Codes		98	99	2		Left blank for SEMCOG
ACC_MODE	Access Mode (For linked trips only)		100	101	2		Left blank for SEMCOG
HOMECODE	Home Based Code		102	102	1	1 - Home Origin 2 - Home Destination 3 - Not Home Based	
PRO_TAZ	Production (Home) TAZ		103	107	5		
ATR_TAZ	Attraction (Other end of trip) TAZ		108	112	5		
DRIVER	Were you the Driver or Passenger in the Vehicle		113	113	1	1 - Passenger 2 - Driver 3 - Refused	
NUMINCAR	Total Number of People in the Car		114	115	2	99 - Don't Know/Refused	
OPAYPARK	Did you Pay to Park (Origin)		116	116	1	1 - Yes 2 - No 3 - Don't Know	
O_COST	How much did you pay to park (Origin)		117	122	6	999.99 - Don't Know/Refused	
O_RATE	Is this a... (Origin)		123	123	1	1 - Daily Rate 2 - Monthly Rate 3 - Yearly Rate 4 - Other 5 - Don't Know/Refused 6 - Hourly 7 - Minute/Meter 8 - Semester/Quarter/School Permit	
DPAYPARK	Did you Pay to Park (Destination)		124	124	1	1 - Yes 2 - No 3 - Don't Know	
D_COST	How much did you pay to park (Destination)		125	130	6	999.99 - Don't Know/Refused	
D_RATE	Is this a... (Destination)		131	131	1	1 - Daily Rate 2 - Monthly Rate 3 - Yearly Rate 4 - Other 5 - Don't Know/Refused 6 - Hourly 7 - Minute/Meter 8 - Semester/Quarter/School Permit	
TRANFARE	How much was your transit fare		132	137	6	999.99 - Don't Know/Refused	

SEMCOG O-D DATA
Trip File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
TOT_HH	Total Number of People in Household	Recruit	138	139	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight 09 - Nine 10 - Ten or More 98 - Refused 99 - Don't Know	
TOT_VEH	Number of Cars/Vans/Trucks Available	Recruit	140	141	2	00 - None 01 - One 02 - Two 03 - Three 04 - Four 05 - Five 06 - Six 07 - Seven 08 - Eight or more 98 - Refused 99 - Don't Know	
HHINCOME	Total annual household income		142	143	2	01 - Less than \$10,000 02 - \$10,000 to < \$15,000 03 - \$15,000 to < \$25,000 04 - \$25,000 to < \$35,000 05 - \$35,000 to < \$50,000 06 - \$50,000 to < \$75,000 07 - \$75,000 to < \$100,000 08 - \$100,000 or more 98 - Refused 99 - Don't Know	
FLAG1	Flag for Rideshare Activities		144	144	1	1 - Origin 2 - Destination 3 - Both	

SEMCOG O-D DATA

Trip File Layout

Variable Name	Variable Description	Source	Start Column	End Column	Variable Width	Values	Comments
FLAG2	Flag for Pick-up/Drop-off Activities		145	145	1	1 - Origin 2 - Destination 3 - Both	