

Sandage Constant Supplementing Census Data Sandage Case Study

DEMOGRAPHIC DATA



Dwelling Unit Counts

Census (SF1) Resolution: Blocks (25,700)

Property Record Files Resolution: Parcels (800,000)

Aerial PhotographsResolution:Individual buildingLimitations:Small areas onlyBuildings, not units



Structure Type

Census (SF3)Resolution:BloLimitations:Sel

Block groups (2,200) Self-reported

Property Record Files Resolution: Parcels (800,000)

Aerial PhotographsResolution:Individual buildingLimitations:Small areas onlySelected structure types



Employment Estimates Census (CTPP) Resolution: CTPP zones (500)

ES202 Files Resolution: Limitations:

Individual employers Confidentiality issues Missing employers Multiple Sites

Derived from Building Floor Area Resolution: Parcels (800,000)



Household Income

Census (SF3) Resolution: Block groups (2,200)

State Income Tax ReturnsResolution:Tracts (600)Limitations:Confidentiality issuesDefinitional differencesComplex process



Case Study Parcel Level Dwelling Units



MGRA Geography





Irregular Geography





Transit Access



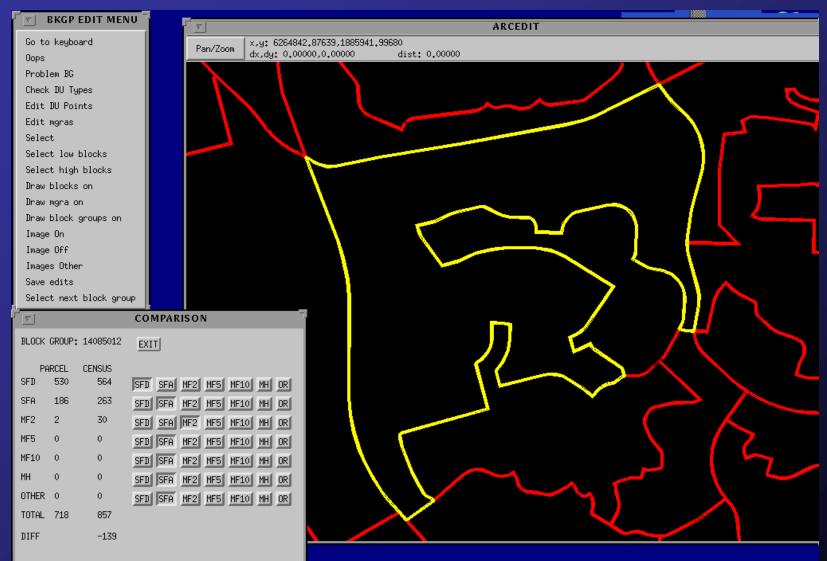


Parcel and MGRA Geography





Block Group Check



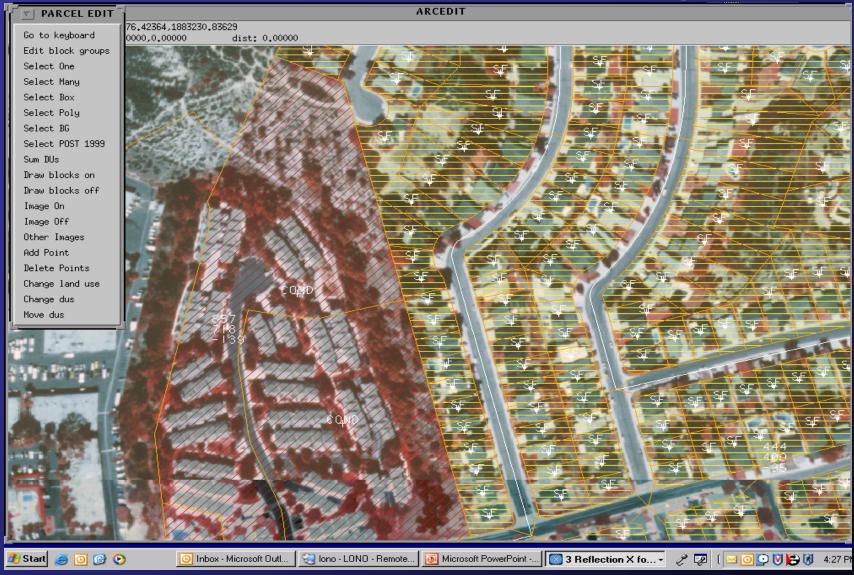


Block Counts and Land Use





Residential Buildings





Problem Areas

Census Structure types Geo-coding quality Block definitions Senior housing

Property Record Files Units on public/non-taxable land

Both Units under construction



TRANSPORTATION DATA



Number of VehiclesCensus (SF3)Resolution:Block groups (2,200)

Department of Motor Vehicles Resolution: Countywide

Home Interview SurveysResolution:Large summary areasLimitations:Sample bias



Average Trip Length (Minutes)Census (CTPP)Resolution:CTPP zones (500)Limitations:Self-reported

Speed Surveys/Transportation Models Resolution: TAZs (4,600)

Home Interview SurveysResolution:Large summary areasLimitations:Sample bias



Transit Mode SharesCensus (CTPP)Resolution:CTPP zones (500)

Transit On-Board Surveys Resolution: Small summary areas

Home Interview SurveysResolution:Very large summary areasLimitations:Sample bias



Trip TablesCensus (CTPP)Resolution:CTPP zones (500)

Home Interview SurveysResolution:Very large summary areasLimitations:Sample bias



Case Study Auto Travel Times



Travel Time Surveys

	АМ				РМ			
Route								
	Observed	Modeled	Difference		Observed	Modeled	Difference	
Calsbad-Escondido	26	30	4	15%	26	27	1	4%
Chula Vista-Sorrento Mesa	54	54	0	0%	66	71	5	8%
Downtown-Sorrento Mesa	29	32	3	10%	29	35	6	21%
El Cajon-Downtown	28	29	1	4%	25	30	5	20%
Escondido-Calsbad	39	35	-4	-10%	43	40	-3	-7%
Escondido-Downtown	62	64	2	3%	59	64	5	8%
Escondido-Kearny Mesa	55	47	-8	-15%	44	46	2	5%
MidCity-Kearny Mesa	15	16	1	7%	20	16	-4	-20%
Mid City-Sorrento Mesa	26	31	5	19%	42	42	0	0%
Oceanside-Downtown	63	62	-1	-2%	65	62	-3	-5%
Rancho Bernado-Sorrento Mesa	33	35	2	6%	51	50	-1	-2%
Sorrento Mesa-Downtown	29	27	-2	-7%	25	28	3	12%
SanYsidro-Downtown	27	36	9	33%	20	28	8	40%
Total	486	498	12	2%	515	539	24	5%

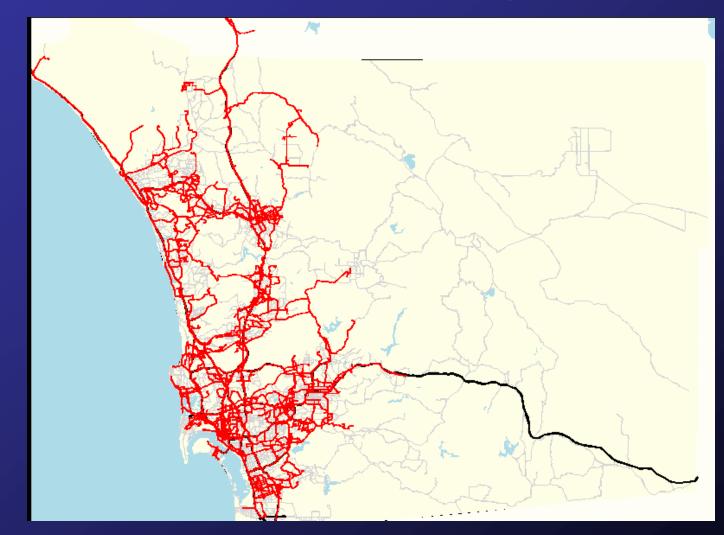


California Statewide Travel Survey

- 1,200 San Diego County Households
- 180 Households with GPS-Equipped Vehicles
- 1,000 GPS trips out of 4,700 total survey trips
- February-October 2001
- GeoStats



GPS Coverage



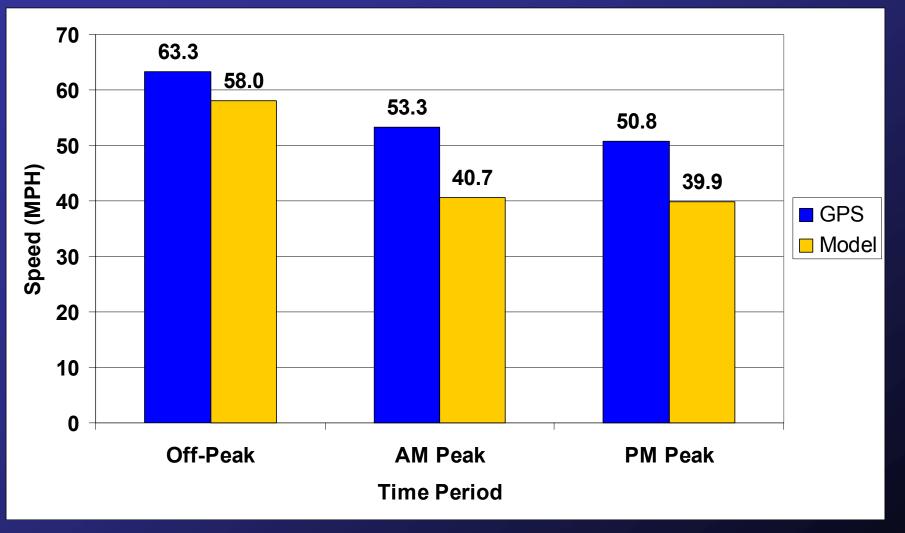


GPS Points



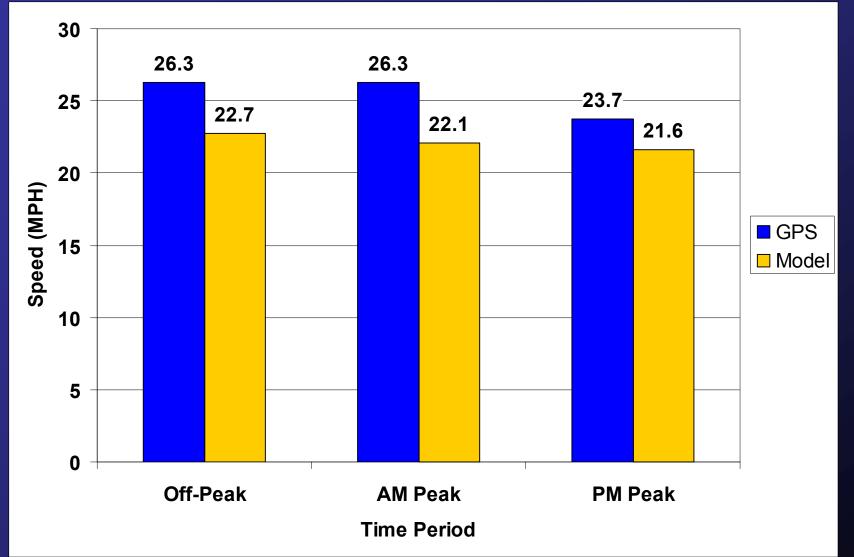


Freeway Speed Comparison



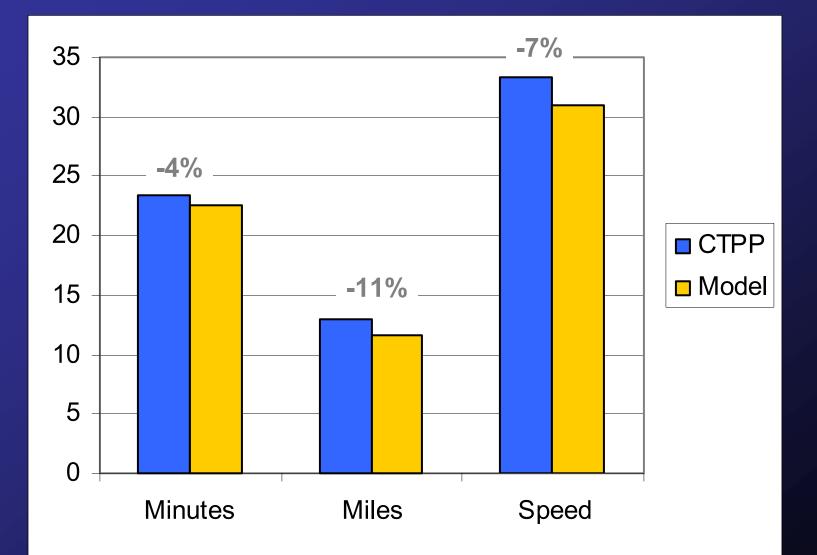


Arterial Speed Comparison



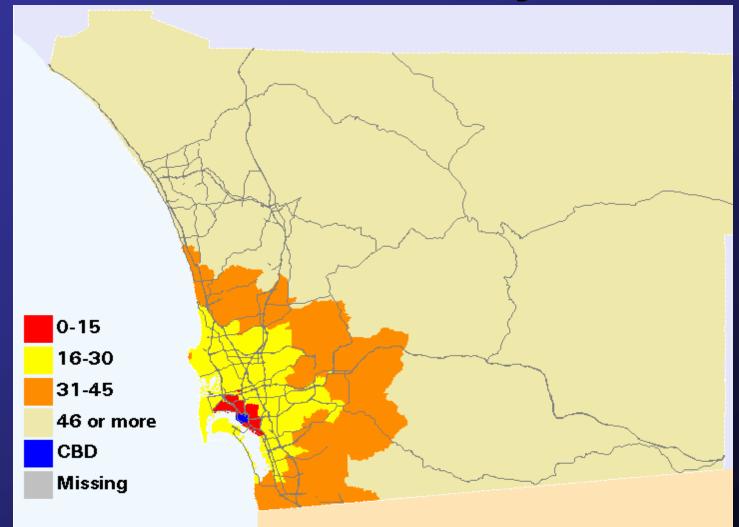


CTPP – Model Comparison



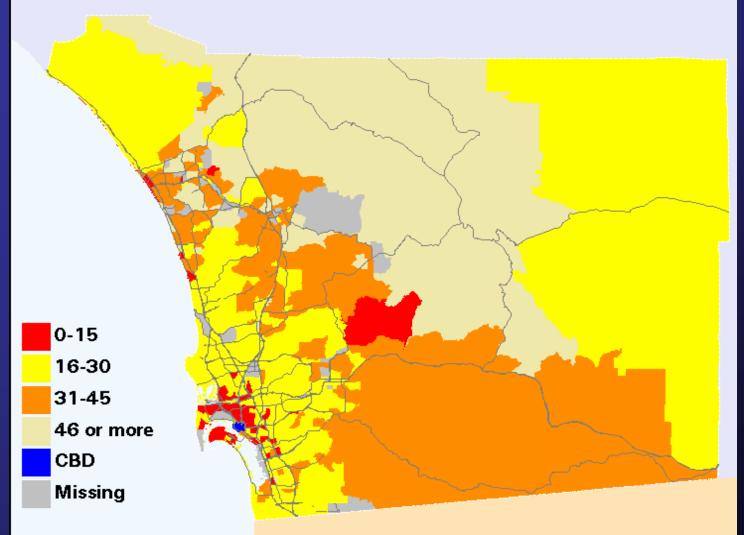


Modeled Travel Times Minutes to CBD by Auto



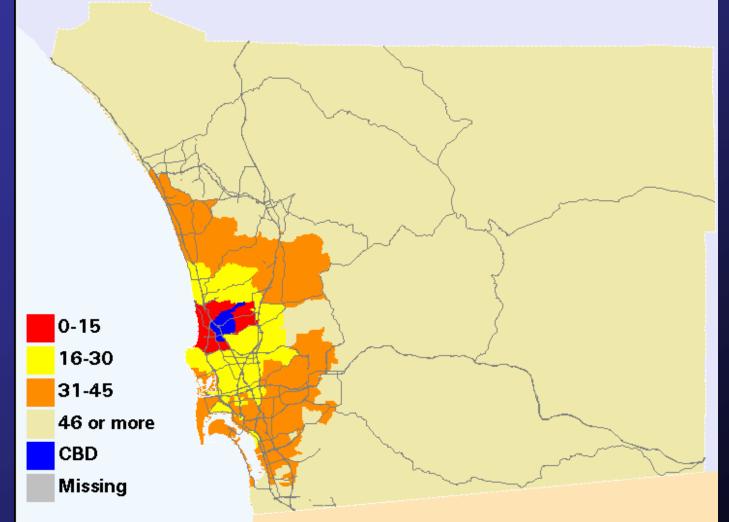


CTPP Travel Times Minutes to CBD by Auto



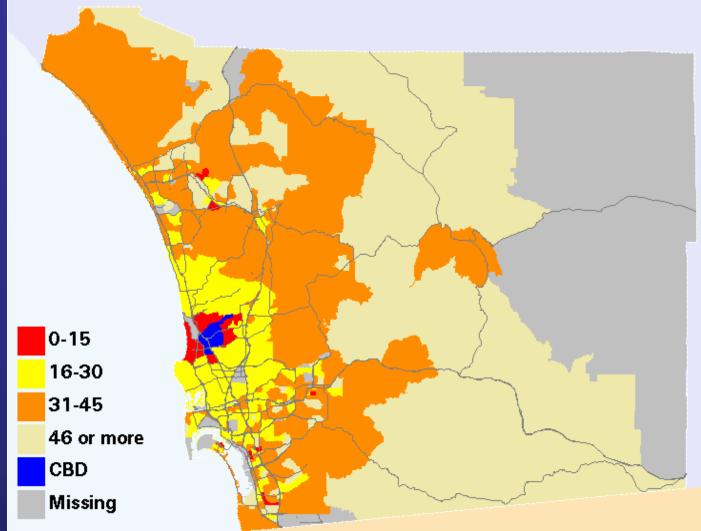


Modeled Travel Times Minutes to Suburb by Auto





CTPP Travel Times Minutes to Suburb by Auto







Sandage Constant Supplementing Census Data Sandage Case Study