

appendix **D**

Geographic Information System (GIS) Optimization

Table 1
SANDAG Land Use Codes

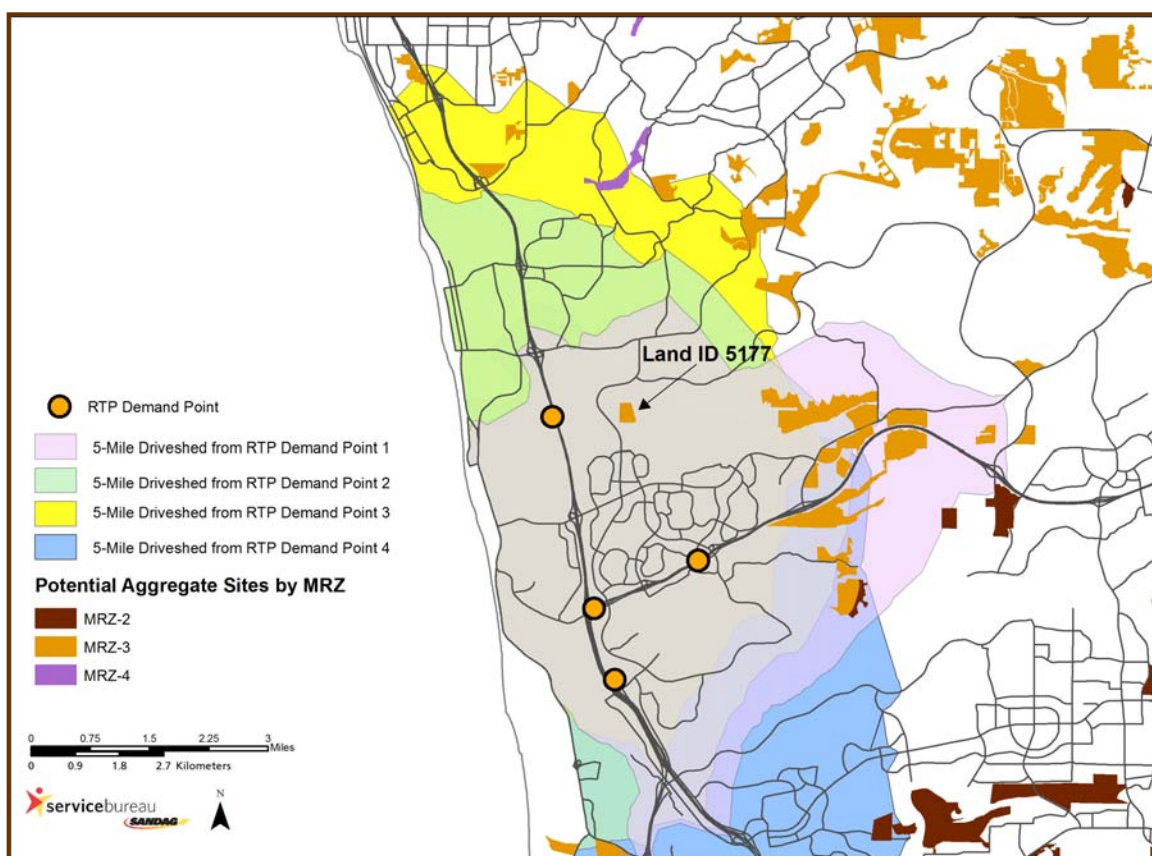
LU CODE	DESCRIPTION	LU CODE	DESCRIPTION	LU CODE	DESCRIPTION
1000	Spaced Rural Residential	5000	Commercial	7200	Commercial Recreation
1100	Single Family Residential	5001	Wholesale Trade	7201	Tourist Attraction
1110	Single Family Detached	5002	Regional Shopping Center	7202	Stadium/Arena
1120	Single Family Multiple-Units	5003	Community Shopping Center	7203	Racetrack
1190	Single Family Residential Without Units	5004	Neighborhood Shopping Center	7204	Golf Course
1200	Multi-Family Residential	5005	Specialty Commercial	7205	Golf Course Clubhouse
1280	Single Room Occupancy Units (SRO's)	5006	Automobile Dealership	7206	Convention Center
1290	Multi-Family Residential Without Units	5007	Arterial Commercial	7207	Marina
1300	Mobile Home Park	5008	Service Station	7208	Olympic Training Center
1400	Group Quarters	5009	Other Retail Trade and Strip Commercial	7209	Casino
1401	Jail/Prison	6000	Office	7210	Other Recreation - High
1402	Dormitory	6001	Office (High-Rise)	7211	Other Recreation - Low
1403	Military Barracks	6002	Office (Low-Rise)	7600	Parks
1404	Monastery	6003	Government Office/Civic Center	7601	Park - Active
1409	Other Group Quarters Facility	6100	Public Services	7603	Open Space Park or Preserve
1500	Hotel/Motel/Resort	6101	Cemetery	7604	Beach - Active
1501	Hotel/Motel (Low-Rise)	6102	Religious Facility	7605	Beach - Passive
1502	Hotel/Motel (High-Rise)	6103	Library	7606	Landscape Open Space
1503	Resort	6104	Post Office	7607	Residential Recreation
2001	Heavy Industry	6105	Fire/Police Station	7609	Undevelopable Natural Area
2100	Light Industry	6108	Mission	8000	Agriculture
2101	Industrial Park	6109	Other Public Services	8001	Orchard or Vineyard
2103	Light Industry - General	6500	Hospitals	8002	Intensive Agriculture
2104	Warehousing	6501	UCSD/VA Hospital/Balboa Hospital	8003	Field Crops
2105	Public Storage	6502	Hospital - General	9101	Vacant and Undeveloped Land
2201	Extractive Industry	6509	Other Health Care	9200	Water
2301	Junkyard/Dump/Landfill	6700	Military Use	9201	Bay or Lagoon
4100	Airports	6701	Military Use	9202	Lake/Reservoir/Large Pond
4101	Commercial Airport	6702	Military Training	9300	Indian Reservation
4102	Military Airport	6703	Weapons Facility	9400	Public/Semi-Public
4103	General Aviation Airport	6800	Schools	9500	Under Construction
4104	Airstrip	6801	SDSU/CSU San Marcos/UCSD	9501	Residential Under Construction
4110	Other Transportation	6802	Other University or College	9502	Commercial Under Construction
4111	Rail Station/Transit Center	6803	Junior College	9503	Industrial Under Construction
4112	Freeway	6804	Senior High School	9504	Office Under Construction
4113	Communications and Utilities	6805	Junior High School or Middle School	9505	School Under Construction
4114	Parking Lot - Surface	6806	Elementary School	9506	Road Under Construction
4115	Parking Lot - Structure	6807	School District Office	9507	Freeway Under Construction
4116	Park and Ride Lot	6809	Other School	9600	Specific Plan Areas
4117	Railroad Right of Way	9700	Mixed Use		
4118	Road Right of Way				
4119	Other Transportation				
4120	Marine Terminal				

ADDITIONAL GIS OPTIMIZATION ANALYSIS

As explained in the report, one of the key objectives of the study was to develop a regional Geographic Information System (GIS) database that allows for the visualization of aggregate sources with informational overlays. Chapter 5 describes a three-pronged approach used to develop the GIS model. Essentially, the steps were: (1) Identify potential aggregate supply sites; (2) Identify Regional Transportation Plan (RTP) aggregate demand points, and (3) Optimize distance between demand points and supply sites. These steps were explained in detail in Chapter 5. An additional GIS analysis was performed for the GIS optimization task and it is presented in this appendix. Continued from Step 3 in Chapter 5, the next step was to determine the spatial relationship among potential aggregate supply sites and RTP demand points.

Figure 1 shows that Land ID 5711 falls within four 5-mile drivesheds that serve four RTP demand points. In other words, four RTP demand points can use the aggregate supply from the potential supply site “Land ID 5177” within 5 miles driving distance.

Figure 1



Figures 2 through Figure 9 show the number of RTP demand points reached by each potential aggregate site within different drivesheds. Most RTP demand points can be reached from one to ten potential aggregate sites within 5-Mile driveshed. (Figure 2) The number of potential aggregate sites increases as the driving distance increases. Figure 4 shows that more than half of RTP demand points (more than 31 demand points) can be served (reached or served?) by several potential aggregate sites within 15-Mile driveshed. Figure 6 shows eighty percent of RTP projects (61 demand points) can be reached from various potential aggregate sites within the 25-Mile driveshed.

Figure 2
Number of RTP Demand Points Reached by each Potential Aggregate Site
Within a 5-Mile Driveshed

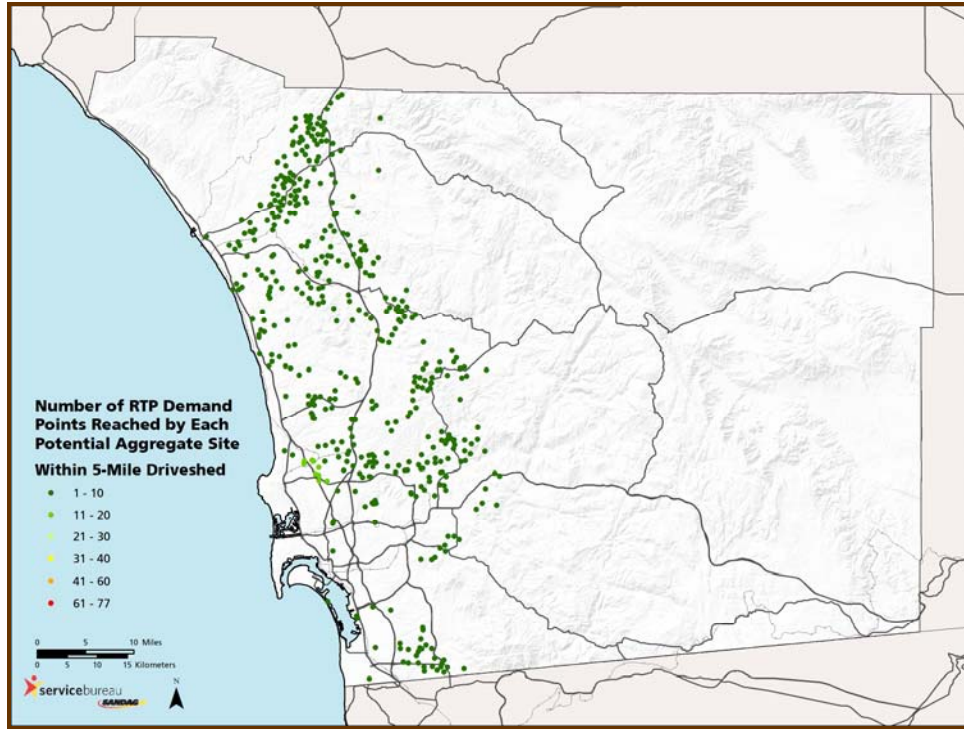


Figure 3
Number of RTP Demand Points Reached by each Potential Aggregate Site
Within a 10-Mile Driveshed

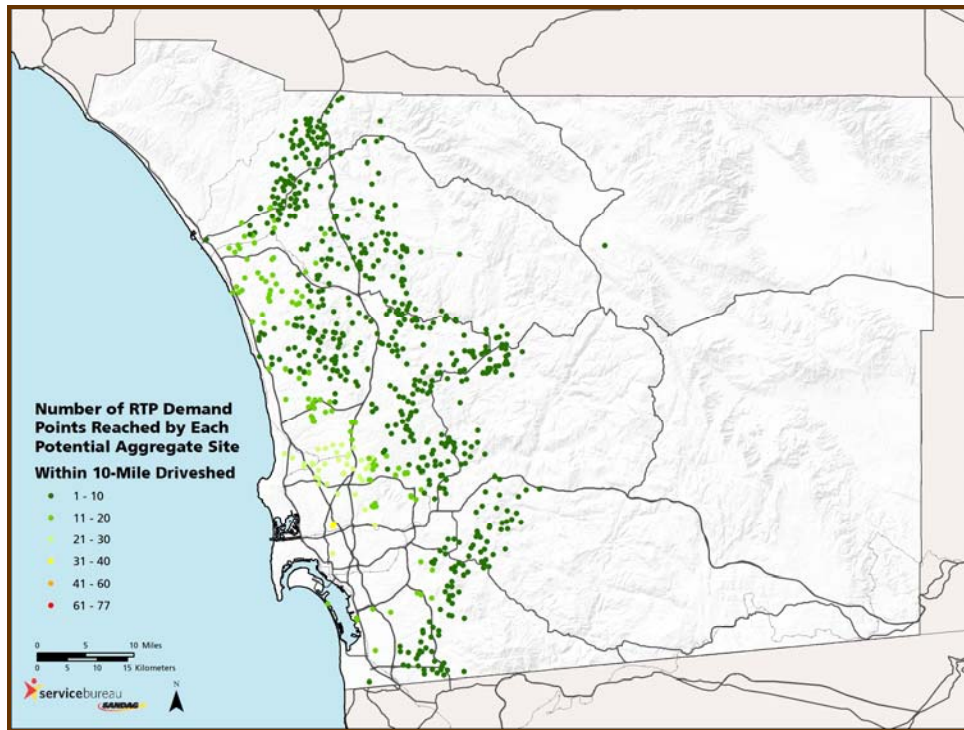


Figure 4
Number of RTP Demand Points Reached by each Potential Aggregate Site
Within a 15-Mile Driveshed

