

Summary of Transportation Modeling Efforts Associated with Land Use Scenarios



NOTE:

The methodology described in this report was used for the plan's original adoption in 2008 as well as the update of the Transportation Element in 2013.

URS was responsible for the transportation modeling associated with the land use scenarios developed in the comprehensive planning process of Allegheny Places. The following describes the methodology and summarizes the results of the modeling effort. To analyze the transportation implications of various proposed land use scenarios on the roadway system, a traffic modeling methodology was established that worked in conjunction with the Southwestern Pennsylvania Commission's (SPC) transportation model. SPC provided its current highway network files, as well as data files and trip tables related to their current socio-economic forecast, Cycle 7. With these files a comparison between the proposed land use scenarios and SPC's land use forecast could be performed as well as providing a base from which the proposed land use scenarios could be projected. As part of their modeling process, SPC translated their socio-economic forecast into trips, which may use various modes of travel. The trips, called productions and attractions, represent all of the trips that are generated by and attracted to the residences and/or employment in a zone. For vehicle trips, SPC developed vehicle trip tables that were imported into their highway network to generate a traffic forecast. The trip tables are organized by traffic analysis zones, or TAZs. A TAZ is an area, usually representing a municipality or part of a municipality, for which SPC develops its socio-economic forecast and trip tables. SPC has broken Allegheny County into 465 separate TAZs.	The association of the proposed land use scenario to the TAZ enabled the proposed land use scenarios to be examined for differences from the land use forecast projected by SPC. The housing and employment projected for each TAZ in the Comprehensive Plan forecast was compared to SPC's Cycle 7 forecast. A factor was developed to relate the SPC Cycle 7 forecasted housing to the Comprehensive Plan foreensive Plan forecasted housing in each TAZ. Also, another factor was developed to relate the employment in each TAZ between the two forecasts. The housing factors and the employment factors for each of the 465 TAZs were compiled into a matrix.	The factors matrix was used to adjust the productions and attractions in the SPC Cycle 7 trip tables. The new factored trip table now reflected the Comprehensive Plan forecast, in that the trips were altered for the housing and employment for that particular land use scenario. This process was repeated for each of the proposed land use scenarios.
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would be coded in the highway network. Once the highway network was updated, the new factored trip table could be used with it to In addition to trip tables, a highway network is needed to generate a traffic forecast. The current highway network used by SPC was obtained. It was decided that any transportation project that was included on SPC's Transportation Improvement Program (TIP) generate a traffic forecast for each land use scenario.

The following Allegheny Places Land Use Scenarios were used in the modeling effort:

- Trend Scenario
- Good Old Places
 - Hot New Places
 - River Places
 - Transit Places
 - Blended
- Composite
- Final

The Trend scenario was modeled with and without the Mon Fayette Expressway. Based on the results, it was decided to model the rest of the scenarios with the Mon Fayette Expressway included the roadway network.

Measures of Effectiveness were identified to compare the 2005 base year with the plan horizon year of 2025. These performance measures included the following items:

- Fuel Consumption (Gal.)
- Lane Miles @ Level of Service A-D
 - Lane Miles @ Level of Service E-F
- Total Lane Miles
- Total Delay (Hours)
- Delay @ Level of Service A-D (Hours)
- Delay @ Level of Service E-F (Hours)
- Total Vehicle Hours Traveled (VHT)

- Vehicle Miles Traveled (VMT) @ Level of Service A-D
- Vehicle Miles Traveled (VMT) @ Level of Service S E-F
 - Total Vehicle Miles Traveled (VMT)
- Average Speed

affected by the development patterns which comprise each scenario. Table 2 shows the corridor and location along the corridor where Table 1 contains a summary of the measures, which includes the bolded items above. Traffic volumes for average weekday traffic (AWDT) were identified for 19 corridors throughout Allegheny County to determine how volumes on certain corridors would be the volume was recorded. Accessibility to activity centers was also determined from the modeling effort. The number of households and jobs within 30 minutes of each activity center is shown in Tables 3 and 4.

Transit ridership was estimated for each scenario by using the applying the 2000 Census Journey-to-Work data by municipality to SPC's Population Forecast. The daily ridership information is shown in Table 5. This information was important in the evaluation of scenarios and helpful in the identification of transportation projects to include in Allegheny Places

Allegheny County Comprehensive Plan Transportation Performance Measures Table 1

	2005				2025	25				
	Base	Trend with MFE Trend w	ithout MFE	Good Old Places	Hot New Places	River Places	Transit Places	Blended	Composite	Final
Total VMT	24,254,563	42,405,570	42,328,949	32,964,876	33,726,529	32,240,595	36,182,534	37,574,460	38,765,452 38,709,386	38,709,386
VMT @ LOS E-F	4,061,646	18,354,362	19,543,506	9,510,926	8,097,262	9,294,241	13,063,260	12,356,523	14,357,106	14,616,145
Fuel Consumption (Gal.)	1,406,765	2,459,523	2,455,079	1,911,963	1,956,139	1,869,954	2,098,587	2,179,319	2,248,396	2,245,144
Total Lane Miles	4,182	4,328	4,212	4,328	4,328	4,328	4,328	4,328	4,328	4,328
Total Delay (Hours)	35,354	6,905,690	6,969,573	1,286,956	122,749	2,603,913	10,424,079	1,244,491	969,424	1,846,531
Delay @ LOS E-F (Hours)	22,311	3,354,549	3,173,616	1,264,321	96,091	2,577,163	10,388,376	1,205,486	766,623	1,200,054
Total VHT (Hours)	817,345	8,250,690	8,330,890	2,341,610	1,197,796	3,638,618	11,573,000	2,442,580	2,204,982	3,083,103

= Lowest = Highest = Base Year Higher than Forecast

Allegheny County Comprehensive Plan Transportation Performance Measures Table 2 - AWDT by Corridor

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Transit Places	168,400	140,900	83,900		117,900	50,400	001 00	00029	35.200			43,800	43,800	43,800	43,800 42,200 69,600	43,800 42,200 69,600	42,200 69,600 50,000	43,800 42,200 69,600 50,000	43,800 42,200 69,600 56,000 55,400	43,800 42,200 69,600 50,000 55,400	43,800 43,800 69,600 69,600 55,400 17,300	43,800 42,200 69,600 56,400 55,400 17,300	43,800 42,200 69,600 55,400 17,300 20,700 20,700	43,800 42,200 69,600 55,400 17,300 17,300 20,700 20,700	43,800 42,200 69,600 55,400 55,400 17,300 20,700 20,700 30,400	43,800 42,200 69,600 55,400 55,400 17,300 20,700 20,700 26,700	43,800 42,200 69,600 55,400 17,300 20,700 20,700 20,700 25,708	43,800 42,200 69,600 55,400 17,300 20,700 20,700 25,700 26,700 20,000 26,700 20,0000 20,0000 20,0000 20,00000000	43,800 42,200 69,600 55,400 55,400 17,300 20,700 20,700 25,700 26,700 26,700 26,700	43,800 42,200 69,600 55,400 17,300 20,700 20,700 20,700 30,400 25,700 30,4000 30,4000 30,4000 30,40000000000	43,800 42,200 69,600 55,400 17,300 20,700 20,700 20,400 25,700 95,900	43,800 42,200 69,600 55,400 55,400 17,300 30,400 30,400 30,400 30,400 30,400 10,600 95,900	43,800 42,200 69,600 55,400 17,300 17,300 20,700 20,700 20,400 25,700 25,700 26,700 20,7000 20,7000 20,7000 20,7000 20,7000 20,7000 20,70000000000
River Places	148,700	109,600	72,400		119,000	45,100	001 00	000292	33 100	00,100	00,100	37,700	37,700	37,700	37,700 40,100 73,400	37,700 40,100 73,400	37,700 37,700 40,100 73,400 48,900	37,700 37,700 40,100 73,400 48,900	37,700 37,700 40,100 73,400 48,900 53,200	37,700 37,700 40,100 73,400 48,900 53,200	37,700 37,700 40,100 73,400 48,900 53,200 53,200	37,700 37,700 73,400 73,400 53,200 53,200	37,700 37,700 40,100 73,400 48,900 53,200 19,100 18,800	37,700 37,700 40,1000 73,400 63,200 53,200 19,100 19,100	37,700 37,700 40,100 73,400 53,200 53,200 19,100 18,800 28,600	37,700 37,700 40,100 73,400 48,900 53,200 19,100 19,100 28,600 28,600 28,600	37,700 37,700 40,100 73,400 48,900 53,200 19,100 18,800 28,600 28,600 20,500	37,700 37,700 40,100 73,400 53,200 19,100 18,800 28,600 20,500 21,5900	37,700 37,700 40,100 73,400 63,200 19,100 19,100 28,600 28,600 28,600 15,900	37,700 37,700 40,100 73,400 48,900 53,200 19,100 19,100 18,800 28,600 28,600 15,900 15,200	37,700 37,700 40,100 73,400 53,200 19,100 18,800 28,600 28,600 20,500 15,900 75,200	37,700 37,700 40,100 73,400 48,900 53,200 19,100 19,100 28,600 28,600 28,600 15,900 75,200	37,700 37,700 40,100 73,400 48,900 53,200 19,100 18,800 19,100 15,200 15,200 15,200 15,200
Hot New Places	139,300	149,800	78,500		107,300	43,300		18,100	30.000	20000		36,200	36,200	36,200	36,200 41,800 62,600	36,200 41,800 62,600	36.200 36.200 41,800 62,600 49,600	36,200 41,800 62,600 49,600	36,200 41,800 62,600 49,600 50,500	36,200 41,800 62,600 49,600 50,500	36,200 41,800 62,600 49,600 50,500	36.200 41.800 82.600 49,600 50,500 15,400	36,200 41,800 62,600 49,600 50,500 15,400 15,400	36,200 41,800 82,600 50,500 15,400 16,200 30,100	36,200 41,800 62,600 62,600 50,500 15,400 16,200 16,200	36,200 41,800 62,600 59,500 56,500 15,400 16,200 16,200 20,900	36,200 41,800 62,600 49,600 50,500 15,400 15,400 15,200 20,900	36,200 41,800 82,600 60,500 50,500 15,400 15,400 15,400 13,500 20,300	36,200 41,800 62,600 50,500 50,500 15,400 16,200 16,200 13,500	36,200 41,800 62,600 49,600 50,500 15,400 15,400 15,400 13,500 13,500 86,100	36,200 41,800 62,600 62,600 50,500 15,400 16,200 20,900 20,900 86,100	36,200 41,800 62,600 50,500 50,500 15,400 15,400 15,400 15,400 13,400 86,100 86,100	36,200 41,800 82,600 50,500 15,400 16,200 30,100 20,900 13,500 86,100 86,100
-	150,300	115,300	73,700		113,900	47,000		11,100	34.600			38,800	38,800	38,800	38,800 40,700 74,500	38,800 40,700 74,500	38,800 40,700 74,500 48,100	38,800 40,700 74,500 48,100	38,800 40,700 74,500 48,100 55,500	38,800 40,700 74,500 48,100 55,500	38,800 38,800 40,700 48,100 55,500 15,700	38,800 40,700 74,500 48,100 55,500 15,700	38,800 40,700 74,500 48,100 56,500 15,700 18,200	38,800 40,700 74,500 48,100 56,500 15,700 15,700	38,800 40,700 48,100 55,500 15,700 15,700 18,200	38,800 40,700 74,500 48,100 55,500 15,700 18,200 32,200	38,800 40,700 74,500 48,100 55,500 15,700 18,200 18,200	38,800 40,700 48,100 55,500 15,700 15,700 18,200 19,700 13,700	38,800 40,700 74,500 55,500 15,700 18,200 32,200 19,700 15,500	38,800 40,700 74,500 48,100 15,700 15,700 19,700 15,500 73,200	38,800 40,700 48,100 55,500 15,700 18,200 18,200 19,700 15,500 15,500 73,200	38,800 40,700 48,100 55,500 15,700 15,700 18,200 19,700 19,700 19,700 13,200	38,800 40,700 48,100 58,600 15,700 15,700 19,700 19,700 15,500 73,200 73,200
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FOCAROL	Fort Pitt Tunnels	West of I-79	Pittsburgh International Airport		Squirrel Hill Tunnels	Liberty Tunnels		31st St Bridge		PA 51	PA 51	PA 51 Parkway West	PA 51 Parkway West	PA 51 Parkway West Liberty Tunnels	PA 51 Parkway West Liberty Tunnels	PA 51 Parkway West Liberty Tunnels	PA 51 Parkway West Liberty Tunnels Mickees Rocks Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Westinghouse Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Westinghouse Bridge Parkway West	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West	PA 51 Parkway West Liberty Tunnels Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West Parkway West Parkway West Parkway West Parkway West Parkway West Romoewille Mali/Thompson Run Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West PA 51 PA 51 Monroeville Mall/Thompson Run Bridg	PA 51 Parkway West Liberty Tunnels Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Kennywood Parkway West Parkway West Parkway West Parkwan West Parkwan West Noncoville Island Bridge Novine Island Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West Parkway West Parkway West PA 51 Monroeville Mall/Thompson Run Bridge Neville Island Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West Parkway West Parkway West Nonroevile Mall/Thompson Run Bridge Norroevile Island Bridge Norroevile Island Bridge	PA 51 Parkway West Liberty Tunnels McKees Rocks Bridge Etna Kennywood Kennywood Westinghouse Bridge Parkway West Parkway West Parkway West PA 51 PA 51
Corrigor	Parkway West (I-279, SR 22, US 30)	Parkway West (I-279, SR 22, US 30)	PA 60		Parkway East (I-376)	PA 51 (Saw Mill Run Blvd)		PA 28		885 (Lebanon Church Rd)	885 (Lebanon Church Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erry Bridde	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65	885 (Lebanon Church Rd) 5 19 (Banksville Rd) 5 19 Truck (West Liberty Ave) erty Bridge 65 83 (Duquesne Blvd@th AveCarson St)	885 (Lebanon Church Rd) 19 (Banksville Rd) 5 19 Truck (West Liberty Ave) erty Bridge 65 8 8 87 (Duquesne Bivußth Ave/Carson St)	885 (Lebanon Church Rd) 19 (Banksville Rd) 5 19 Truck (West Liberty Ave) erty Bridge 65 8 8 8 337 (Duquesne Bivd/8th Ave/Carson St) 5 30	885 (Lebanon Church Rd) 5 19 (Banksville Rd) 5 19 Truck (West Liberty Ave) erty Bridge 65 8 8 8 307 (Duquesne Bivd/8th Ave/Carson St) 5 30	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65 8 8 8 121 (Duquesne Blvd/8th Ave/Carson St) 30 121 (Greentree Rd/Cochran Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65 8 837 (Duquesne Bivd/8th Ave/Carson Si) 20 121 (Greentree Rd/Cochran Rd) 88 (Library Rd) 88 (Library Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65 8 8 87 (Duquesne Bivd/8th Ave/Carson St) 30 121 (Greentree Rd/Cochran Rd) 88 (Library Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65 837 (Duquesne Blvd/8th Ave/Carson St) 30 121 (Greentree Rd/Cochran Rd) 88 (Library Rd) 88 (Library Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) erfy Bridge 65 65 837 (Duquesne Bivd/8th Ave/Carson SI) 837 (Duquesne Bivd/8th Ave/Carson SI) 837 (Duquesne Rivd/8th Ave/Carson SI) 838 (Library Rd) 88 (Library Rd) 88 (Library Rd)	885 (Lebanon Church Rd) 19 (Banksville Rd) 19 Truck (West Liberty Ave) erty Bridge 65 8 8 121 (Lorentree Rd/Cochran Rd) 88 (Library Rd) 88 (Library Rd) 88 (Library Rd) 88 (Library Rd) 89 (Library Rd) 90	885 (Lebanon Church Rd) 5 19 (Banksville Rd) 6 19 Truck (West Liberty Ave) erty Bridge 65 8 8 121 (Greentree Rd/Cochran Rd) 121 (Greentree Rd/Cochran Rd) 88 (Library Rd) 88 (Library Rd) 9 9	885 (Lebanon Church Rd) 19 (Banksville Rd) 5 19 Truck (West Liberty Ave) erty Bridge 65 63 83 121 (Greentree Rd/Cochran Rd) 88 (Library Rd) 88 (Library Rd) 9 9	PA 885 (Lebanon Church Rd) US 19 (Banksville Rd) US 19 Truck (West Liberty Ave) Liberty Bridge PA 85 PA 837 (Duquesne Blvdl8th Ave/Carson St) PA 837 (Duquesne Blvdl8th Ave/Carson St) PA 837 (Duquesne Blvdl8th Ave/Carson St) PA 837 (Library Rd) PA 121 (Greentree Rd/Cochran Rd) PA 121 (Greentree Rd/Cochran Rd) PA 121 (Greentree St) 129 PA 88 (Library Rd) PA 88 (Library Rd)

= Lowest Future AWDT
= Highest Future AWDT
= Base Year Higher than Forecast

Allegheny County Comprehensive Plan Transportation Performance Measures Table 3 - Households within 30 minutes

		2005				2	2025				1
Activity Center	Zone	Base	Trend with MFE	Trend without MFE	Good Old Places	Hot New Places	River Places	Transit Places	Blended	Composite	Final
Downtown	2	518,626	486,777	469,563	521,409	524,673	506,994	505,328	502,568	502,924	484,615
Oakland	27	468,279	446,088	436,588	448,306	472,062	452,569	440,026	456,619	447,973	457,378
Monroeville	182	400,487	420,838	350,316	422,039	456,537	420,209	396,134	427,125	426,931	435,771
Wilkinsburg	149	441,857	425,990	395,917	419,030	454,836	430,103	404,492	433,526	437,399	437,725
South Hills Village	266	350,103	307,700	303,520	327,024	327,174	330,067	272,926	336,130	323,996	313,228
Allegheny County Airport	237	371,053	408,628	340,578	408,827	416,141	410,559	405,594	414,302	411,064	411,166
McKeesport	203	299,000	316,405	280,348	308,518	332,292	307,772	290,405	315,569	312,056	316,490
Robinson	329	370,413	99,871	90,917	351,572	143,671	359,646	59,096	303,756	216,686	149,636
Pittsburgh International Airport	338	204,064	40,088	39,537	200,023	160,334	202,416	154,091	190,393	109,373	81,706
Ross Park Mall	349	370,757	261,791	258,025	349,027	334,997	350,392	334,937	350,954	327,498	307,466
RIDC Park Route 28	398	389,861	362,736	352,815	353,264	376,807	352,455	336,623	348,573	363,502	358,548
Wexford	384	258,678	186,981	186,693	229,202	223,924	238,786	218,106	228,227	225,712	206,625
Clairton	246	210,373	231,257	188,579	228,634	246,158	235,767	225,374	230,269	231,598	234,232

Highest Future
Lowest Future
Base Year Higher than Forecast

Allegheny County Comprehensive Plan Transportation Performance Measures Table 4 - Employment within 30 Minutes

		2005				- 1	2025				
Activity Center	Zone	Base	Trend with MFE	Trend with MFE Trend without MFE	Good Old Places	Hot New Places	River Places	Transit Places	Blended	Composite	Final
Downtown	7	878,876	791,091	776,030	877,784	854,512	858,696	833,699	850,254	819,157	798,157
Oakland	27	818,871	744,189	733,169	761,901	780,686	771,700	746,603	777,776	758,323	762,738
Monroeville	182	672,671	693,724	631,661	698,733	728,975	699,743	669,919	696,677	699,578	709,269
Wilkinsburg	149	732,137	699,825	662,364	689,267	735,173	703,246	677,199	718,519	716,237	712,684
South Hills Village	266	656,849	588,768	585,540	622,225	619,746	627,048	556,226	633,286	615,258	606,340
Allegheny County Airport	237	638,257	660,435	594,774	661,283	678,718	670,825	656,170	678,186	674,086	670,158
McKeesport	203	514,268	542,707	409,369	529,221	559,044	503,752	513,801	533,692	530,429	532,299
Robinson	329	697,316	265,846	198,410	672,249	391,091	678,333	111,575	617,374	522,359	388,292
Pittsburgh International Airport	338	487,425	79,058	70,866	452,982	337,931	456,774	256,340	456,635	184,359	140,442
Ross Park Mall	349	698,788	569,664	568,600	678,582	669,166	680,339	662,316	678,777	656,497	614,831
RIDC Park Route 28	398	673,290	615,735	606,298	605,644	629,242	609,683	596,123	608,498	617,013	611,812
Wexford	384	555,464	424,136	421,162	483,261	465,291	507,456	461,786	495,656	478,126	446,566
Clairton	246	186,447	224,946	168,551	222,683	235,462	226,767	219,971	225,605	228,736	230,484

= Highest Future = Lowest Future = Base Year Higher than Forecast

Allegheny County Comprehensive Plan Transportation Performance Measures Table 5 - Esimtated Daily Transit Ridership

Final		259,182
		_
Composite		258,641
Blended		258,638
Transit Places		266,014
<b>River Places</b>		257,875
Hot New Places River Places		253,243
Good Old Places		262,795
Trend		249,972
	Allegheny Transit	Ridership

