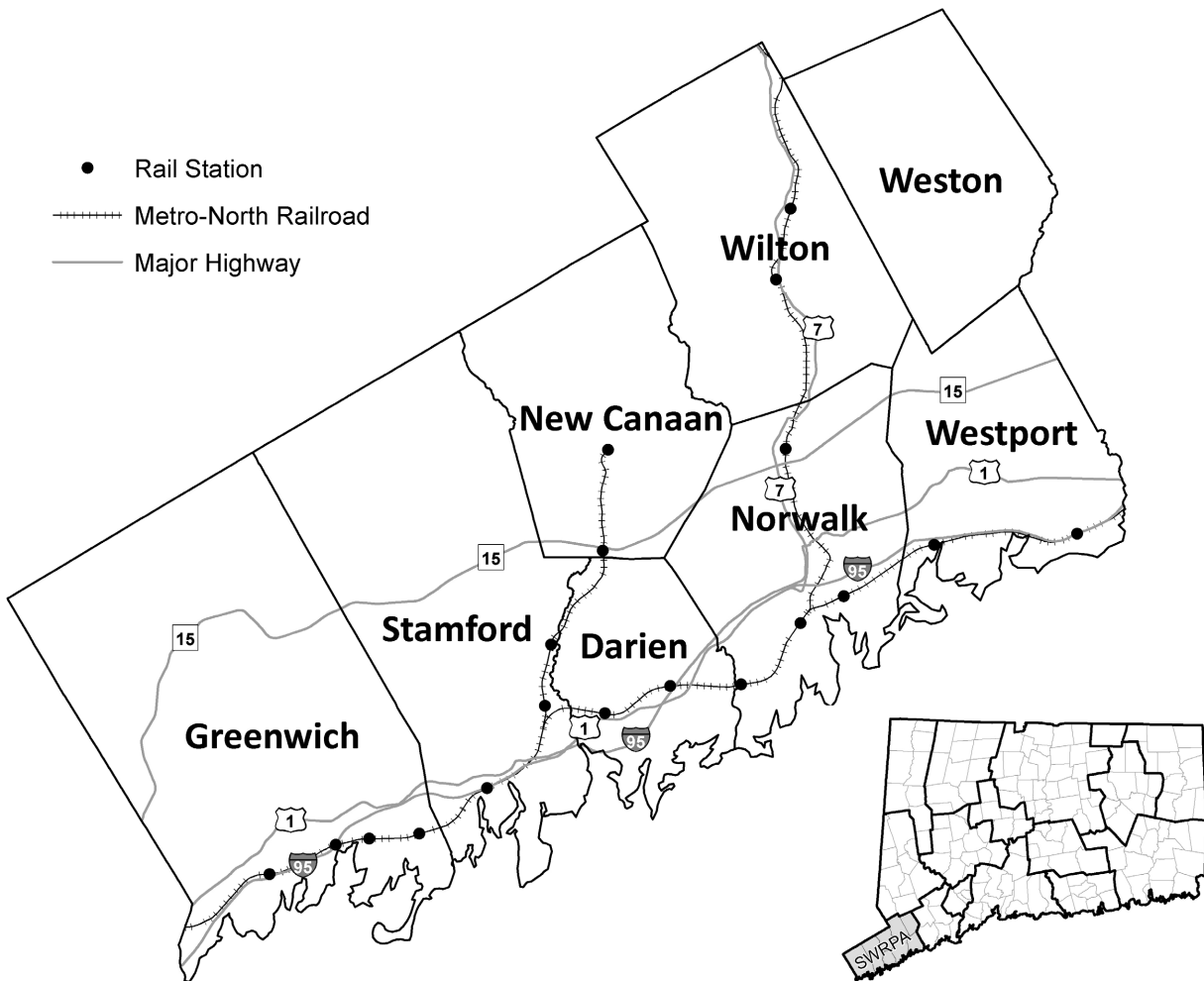


South Western Region Environmental Justice Annual Assessment 2011

*Transportation Planning Programs Including the Transportation Improvement
Program 2010-2013 and the Long Range Transportation Plan 2011-2040*



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South Western Region Environmental Justice Annual Assessment May 2011

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2011 Environmental Justice Assessment

Executive Summary

Each year since 2001, the South Western Regional Planning Agency has developed demographic profiles of the South Western Region (the Region) and assessed the Region's transportation planning programs and its products, such as the Transportation Improvement Program and the Long Range Transportation Plan, for compliance with the guiding principles of environmental justice (EJ). These principles seek to: assure that transportation plans and programs do not have an adverse impact on communities of concern; ensure full participation in the transportation decision-making process; and prevent the reduction or denial of benefits for communities of concern. The ***South Western Region Environmental Justice Annual Assessment 2011*** (2011 EJ Assessment) evaluates the [South Western Region Transportation Improvement Program 2010-2013](#) (the "TIP") and the [South Western Region Long Range Transportation Plan 2011-2040](#) (the "LRTP") using a methodology that focuses on data available at the Census tract level. The *2011 EJ Assessment* also examines the travel patterns and linguistic isolation among the population residing in identified communities of concern. In tandem with the update of the LRTP, the EJ implications of project locations and stated objectives are examined in terms of their benefits and burdens upon communities of concern.

The South Western Region's commitment to EJ is reflected in its transportation planning program. The *2011 EJ Assessment* supports and is supported by the [2009 Public Participation Plan for the South Western Region Metropolitan Planning Organization](#) (the "PPP"), which was endorsed by the South Western Region Metropolitan Planning Organization (SWRMPO) in May 2009. The *2011 EJ Assessment* recommends a continued effort to assess benefits and burdens and to refine the methodology used to analyze the TIP and LRTP as well as individual projects, programs and policies.

Data from the 2010 Census of Population and Housing and the 2005-2009 American Community Survey were used to prepare a demographic profile for the Region and to identify the geographic distribution of the population of concern. The population of concern is identified using the following four criteria: percent of minority population, per capita income, percent of households receiving public assistance income, and percent of persons below the poverty level. The *2011 EJ Assessment* examined all eighty-four Census tracts that comprise the Region. Communities of concern were defined as any Census tract meeting or exceeding defined thresholds for all four criteria.

The *2011 EJ Assessment* identified communities of concern in Greenwich (1 Census tract), Norwalk (7 Census tracts), and Stamford (9 Census tracts). In Greenwich, the community of concern is located in the Chickahominy area along the US 1 corridor. In Norwalk, the communities of concern are located in central and South Norwalk, generally along the US 7 Corridor. In Stamford, the communities of concern are located in the Downtown, Waterside, South End, and Glenbrook areas, generally along the US 1 and I-95 corridors.

A further analysis of Census travel data shows that workers residing in the communities of concern have different commuting patterns than do workers residing in the remainder of the Region. The data indicate that workers residing in the communities of concern drive alone and use the railroad at lower rates and use carpools, bus transit, walking and bicycling at greater rates than do their counterparts in the remainder of the Region. Other data indicate that workers residing in the communities of concern generally have shorter commutes and fewer very long commutes than do their counterparts in the remainder of the Region.

Language barriers were assessed using Census data on linguistic isolation. According to the U.S. Census Bureau, a linguistically isolated household is defined as "one in which no member 14 years old and over (1) speaks only English or (2) speaks a non-English language and speaks English 'very well.' In other words, all members 14 years old and over have at least some difficulty with English."¹ In 2009, 9,549 out of 134,323 (7.1%) households in the Region were determined to be linguistically isolated. Within the communities of concern, 16.6% of households were determined to be linguistically isolated. Of those households determined to be linguistically isolated within the communities of concern, 59.3% spoke Spanish and 35.1% spoke another Indo-European language.

The [South Western Region Long Range Transportation Plan 2011 – 2040 \(LRTP\)](#) provides the framework for transportation planning, programming, and decision-making that benefit the entire population including residents of the communities of concern. SWRMPO's latest *LRTP* was endorsed in 2011 and covers the period between 2011 and 2040. Stakeholders and the general public were given numerous opportunities to review and comment on the draft *LRTP* prior to its adoption by the SWRMPO.

The 2009 [Public Participation Plan for the South Western Region Metropolitan Planning Organization \(PPP\)](#) is the SWRMPO's official policy on involving the public in the transportation planning process. The *PPP* provides an overview of the objectives for public involvement, and the activities of the SWRMPO and the TTAG. The *PPP* also outlines the SWRMPO's adoption and amendment processes for transportation plans, projects, and tasks; comment periods; opportunities for public participation; noticing practices; techniques to address regulations guiding the public participation process, such as environmental justice; plan evaluation; and strategies for public participation.

This report identifies the South Western Region's FY2011 and FY2012 work program areas that promote EJ principles. In FY2011 and FY2012, the South Western Region will:

- Continue to implement the policy and procedures described in the *PPP*;
- Continue to research and refine benefits and burdens analyses and procedures;
- Develop a framework to assess benefits and burdens that fully considers the balance of impacts upon a community of concern;
- Continue to assess the EJ implication of projects on the *TIP* and *LRTP* with the objective of assuring that there are no disproportionate negative impacts as a result of project

¹ US Census Bureau, *2000 Census of Population and Housing, Summary File 3*.

scope, scheduling or funding level and that the benefits resulting from improvements are not inequitably apportioned throughout the Region;

- Consider which, if any, other populations should be included in benefits and burdens assessment and community outreach activities;
- Continue to expand community and faith-based outreach contacts and network opportunities and procedures;
- Continue to enhance transportation planning program information available on the SWRPA website;
- Continue to explore ways to increase accessibility to transportation planning program information and services on the web, in the media, and through outreach; and
- Continue to advance EJ, Title VI and public involvement as “emphasis areas” of the South Western Region transportation planning program.

2011 Environmental Justice Assessment

Background

As a result of federal mandates, attention has been placed on the need to incorporate environmental justice (EJ) principles into the processes and products of transportation planning. Recipients of federal-aid must abide by nondiscrimination policies as laid out by Title VI of the Civil Rights Act of 1964 (Title VI). These requirements were amplified by Executive Order No. 12898, issued February 11, 1994, which requires that each federal agency incorporate EJ into its mission “by identifying and addressing...disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations”.

The US Department of Transportation (US DOT) mandates that EJ be considered in each phase of the planning and implementation processes. The US DOT outlined three principles to guide Metropolitan Planning Organizations (MPOs) in their EJ efforts:

1. Avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority and low-income populations.
2. Ensure the full and fair participation by all potentially affected communities in the transportation decision-making process.
3. Prevent the denial of, the reduction in or the significant delay in the receipt of benefits by minority and low-income populations.²

In 2005, the Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) was signed into law. SAFETEA-LU regulations represent a continuation of the efforts from previous surface transportation bills to implement EJ principles and procedures at all levels of transportation decision-making.

Demographic Overview of Connecticut’s South Western Region

The South Western Region (“the Region”) consists of eight municipalities in southwestern Connecticut. These municipalities are the Cities of Norwalk and Stamford and the Towns of Darien, Greenwich, New Canaan, Weston, Westport and Wilton.

Generally, the Region is substantially developed and is the second most densely populated planning region in the state of Connecticut. According to the 2010 Census, there were 364,519 persons residing in the 212.3 square mile Region, resulting in a population density of approximately 1,717 persons per square mile (2.7 persons per acre). The City of Norwalk had the highest population density in the Region at 3,771 persons per square mile (5.9 persons per acre), while the Town of Weston had the lowest population density at 492 persons per square mile (0.8 persons per acre) (Table 1).

² US DOT, “An Overview of Transportation and Environmental Justice.”

Table 1. Population Density by Municipality, Region and State, 2010³

Place	Total Population	Area (Square Miles)	Population Density (persons / sq. mi)	Population Density (persons / acre)
Darien	20,732	12.7	1,632.4	2.6
Greenwich	61,171	48.4	1,263.9	2.0
New Canaan	19,738	22.5	877.2	1.4
Norwalk	85,603	22.7	3,771.1	5.9
Stamford	122,643	38.3	3,202.2	5.0
Weston	10,179	20.7	491.7	0.8
Westport	26,391	19.7	1,339.6	2.1
Wilton	18,062	27.3	661.6	1.0
Region	364,519	212.3	1,717.0	2.7
Connecticut	3,574,097	4,545.1	786.4	1.2

For the purposes of this report, the minority population is considered to be all racial and ethnic groups except non-Hispanic Whites. In 2010, the Region's minority population was 116,476 persons, representing 32.0% of the Region's total population. The two largest minority groups in the Region are Hispanic Whites (32,047 persons or 8.8%), and Black or African American (31,479 persons or 8.6%), followed by some other race (21,608, or 5.9%), Asian (21,388 persons or 5.9%), and persons of two or more races (8,887 persons or 2.4%). The total Hispanic or Latino population (59,040 persons) comprised 16.2% of the Region's total population. Among the Hispanic or Latino population, 54.3% identified themselves as White (32,047 persons). It is notable that the minority population comprises a greater percentage of the Region's total population (32.0%) than it does for Connecticut as a whole (28.8%) (Table 2).

Table 2. Minority Population in the South Western Region and the State of Connecticut⁴

Item	South Western Region		Connecticut	
	Number	Percentage	Number	Percentage
Total Population	364,519	-	3,574,097	-
White, non-Hispanic	248,043	68.0%	2,546,262	71.2%
Minority Groups, Total	116,476	32.0%	1,027,835	28.8%
Black or African American	31,479	8.6%	362,296	10.1%
Asian	21,388	5.9%	135,565	3.8%
Other	31,562	8.7%	303,826	8.5%
Hispanic	32,047	8.8%	226,148	6.3%

According to the Census, the Region's per capita income in 2009 was \$65,409, which is substantially higher than that of the state as a whole (\$36,468). Within the Region, per capita income ranged from \$41,419 in Norwalk to \$99,160 in New Canaan. In 2009, the Region's median household income was \$97,015, which is substantially higher than that of the state as a whole (\$67,721). Within the Region, median household income ranged from \$75,695 in Norwalk to \$206,469 in Weston. In six of the eight municipalities, at least 25% of households earned more than \$200,000 per year, Norwalk and Stamford being the exceptions.⁵

³ U.S. Census Bureau. *2010 Redistricting Data Summary File*.

⁴ U.S. Census Bureau. *2010 Redistricting Data Summary File*.

⁵ U.S. Census Bureau, *2005-2009 American Community Survey 5-Year Estimates*.

Despite the Region’s wealth, concentrated areas of poverty do exist. These areas tend also to be characterized by lower percentages of non-Hispanic Whites than the Region as a whole. In 2009, the percentage of the Region’s minority population living below the poverty line (14.3%) was four times higher than that of the non-Hispanic White population (3.5%). Of the 19,703 persons living below the poverty level, 55.2% (10,885 persons) were minority and 44.8% (8,818 persons) were non-Hispanic White (Table 3).

Table 3. Poverty by Minority Status in Connecticut’s South Western Region ⁶

Item	Minority	White, not Hispanic or Latino	Total
Population for whom poverty status is determined	75,884	252,281	328,165
Income in 2009 below poverty level	10,885	8,818	19,703
Percent	14.3%	3.5%	6.0%

⁶ U.S. Census Bureau, 2005-2009 American Community Survey 5-Year Estimates.

Determining the Geographic Distribution of Populations of Concern

In order to structure planning efforts to comply with EJ mandates, the geographic distribution of the population of concern was evaluated against four criteria at the Census tract level. All data was obtained from the *2010 Census of Population and Housing, Redistricting Data* and the *2005-2009 American Community Survey 5-Year Estimates*. The following four criteria were used in the analysis:

- percent of minority population (all persons except those identifying themselves as White, non-Hispanic);
- per capita income;
- percent of persons below the poverty level; and,
- percent of households receiving public assistance income.

A geographic area satisfies one of the criteria if it exceeds a designated threshold. In the case of per capita income, an area satisfies the criteria if per capita income does not exceed a designated threshold. The threshold for each criterion is set at the regional mean or in the case of per capita income, the regional per capita income. If an area meets all four of the criteria, it is highlighted as a *Community of Concern*. The thresholds of each criterion are listed in the last column of Table 4.

Using the method described above, an analysis was conducted examining all Census tracts in the Region. Tracts were chosen because of the availability of data and ability to perform fine grain geographical analysis. Further, while *Census 2010* data is available at smaller geographic levels, Census tracts are the most precise geographic level available for data from the *2005-2009 American Community Survey 5-Year Estimates*.

Table 4. Environmental Justice Criteria: Municipalities in the South Western Region ⁷

Item	Darien	Greenwich	New			Stamford	Weston	Westport	Wilton	Region	Threshold
			Canaan	Norwalk							
Total Population	20,732	61,171	19,738	85,603	122,643	10,179	26,391	18,062	364,519		
Minority Population	1,834	12,364	1,706	37,885	57,237	967	2,676	1,807	116,476		
Minority Population, %	8.8%	20.2%	8.6%	44.3%	46.7%	9.5%	10.1%	10.0%	32.0%	32.0%	
Per Capita Income	\$94,953	\$92,014	\$99,160	\$44,419	\$46,928	\$97,198	\$92,854	\$78,887	\$65,409	\$65,409	
Pop. for whom Poverty Status is Determined	20,165	61,163	19,805	82,495	117,573	10,137	26,299	17,413	355,050		
Pop. Below Poverty Level	591	2,197	458	6,731	11,957	147	748	378	23,207		
Pop. Below Poverty Level, %	2.9%	3.6%	2.3%	7.9%	9.7%	1.4%	2.8%	2.1%	6.5%	6.5%	
Total Households	6,556	22,941	6,838	33,057	46,190	3,371	9,499	5,871	134,323		
Households Receiving Public Assistance	55	145	15	636	754	22	36	34	1,697		
Households Receiving Public Assistance, %	0.8%	0.6%	0.2%	1.9%	1.6%	0.7%	0.4%	0.6%	1.3%	1.3%	

⁷ U.S. Census Bureau, *2010 Redistricting Data Summary File, 2005-2009 American Community Survey 5-Year Estimates*.

Demographic Characteristics of the Population Residing in Communities of Concern

According to the analysis, seventeen of the Region's eighty-four Census tracts (20.2%) met all four of the EJ criteria. As shown in Figure 3, Greenwich has one qualifying Census tract, which is located in the Chickahominy area along the US 1 corridor. In Norwalk, the seven qualifying Census tracts are located in central and South Norwalk generally along the Route 7 corridor. In Stamford, the nine qualifying Census tracts are located in the Downtown, West Side, Waterside, South End, and Glenbrook areas, generally along the US 1 and I-95 corridors. The remaining municipalities in the Region did not have any Census tracts that met all four criteria.

Table 5 provides a summary of the attributes of the qualifying Census tracts aggregated by municipality. The analysis reveals the location and demographic characteristics that distinguish the communities of concern from the Region as a whole. It is evident that the communities of concern are host to concentrations of low income and minority populations in excess of the regional mean. For instance, although these seventeen Census tracts contain only one-fifth of the Region's total population, they represent almost one-half of the Region's minority population as well as one-half of the persons living below the poverty level. Per capita incomes are 51% lower in the communities of concern than they are for the Region as a whole. In addition, 65% of those households receiving public assistance reside in a community of concern, which is well in excess of their proportion of Region's total of households (23%). The disproportionate concentration of populations of concern within these Census tracts is similarly dramatic when examined relative to their respective municipal totals.

Table 5 Census Tracts Comprising the Communities of Concern, Summarized by Municipality^{8 9}

Item	Thresholds	Greenwich	Norwalk	Stamford	Total	Regional Share	Region
Number of Census Block Tracts		1	7	9	17	20.2%	84
Total Population		5,494	24,422	50,227	80,143	22.0%	364,519
Minority Population		2,240	16,327	33,698	52,265	44.9%	116,476
Minority Population, %	32.0%	40.8%	66.9%	67.1%	65.2%	-	32.0%
Per Capita Income	\$65,409	\$61,697	\$26,923	\$33,271	\$33,285	50.9%	\$65,409
Pop. for whom Poverty Status is Determined		5,339	22,351	47,752	75,442	21.2%	355,050
Pop. Below Poverty Level		530	4,220	7,603	12,353	53.2%	23,207
Pop. Below Poverty Level, %	6.5%	9.9%	18.9%	15.9%	16.4%	-	6.5%
Total Households		2,419	9,016	19,112	30,547	22.7%	134,323
Households Receiving Public Assistance		43	397	669	1,109	65.4%	1,697
Households Receiving Public Assistance, %	1.3%	1.8%	4.4%	3.5%	3.6%	-	1.3%

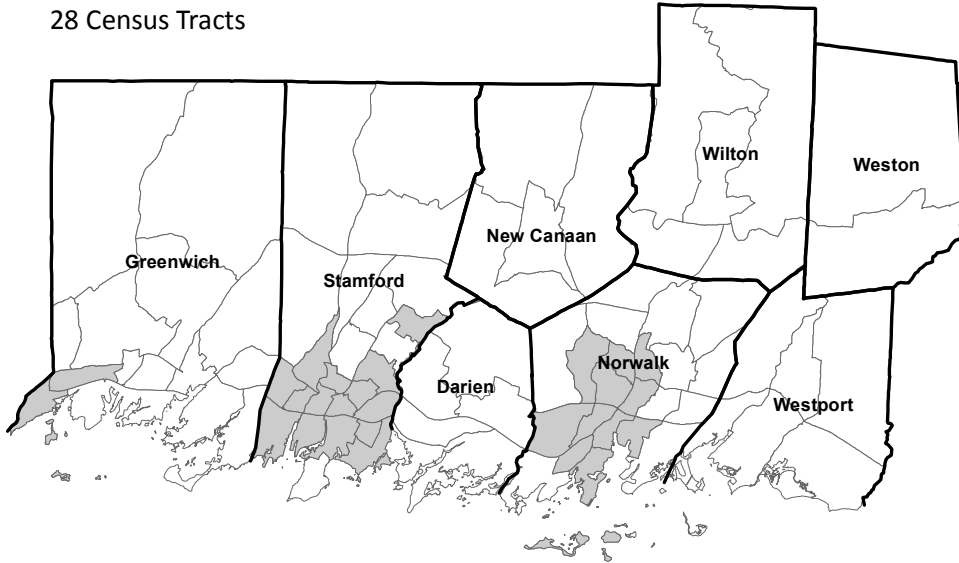
⁸ U.S. Census Bureau, *2010 Redistricting Data Summary File, 2005-2009 American Community Survey 5-Year Estimates*.

⁹ Appendix A provides the figures for the individual Census tracts that comprise the Communities of Concern.

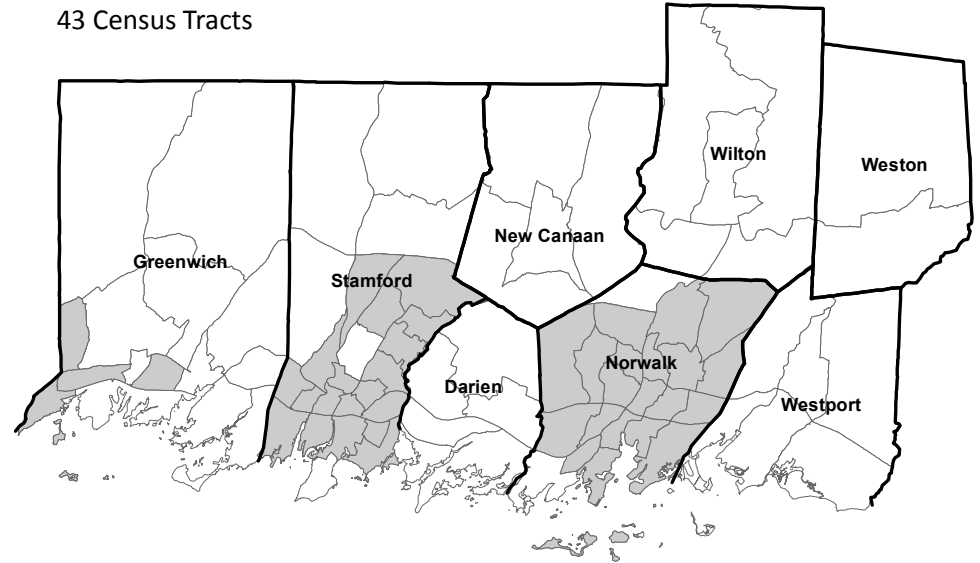
Census Tracts That Met Individual Environmental Justice Criteria

Figure 1

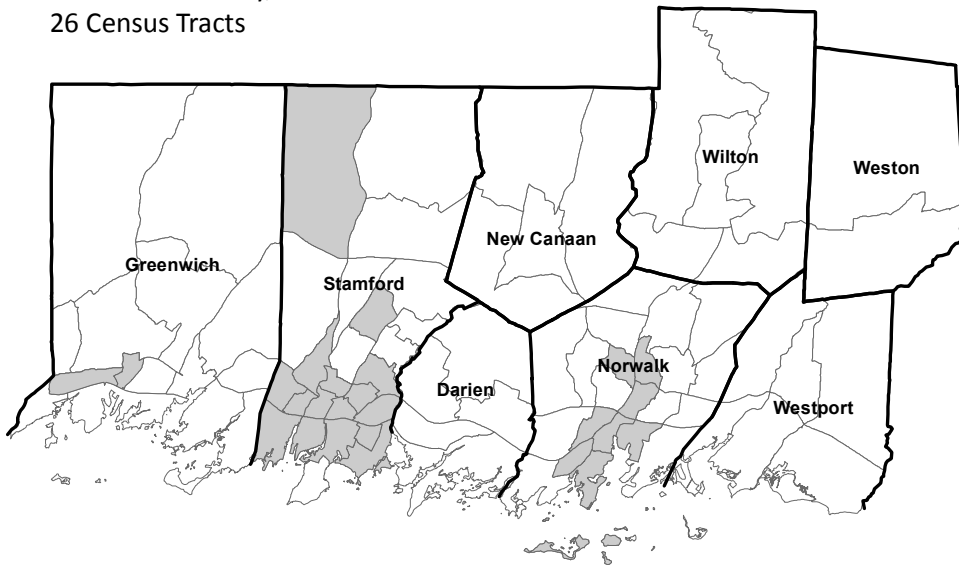
Minority Population, %
28 Census Tracts



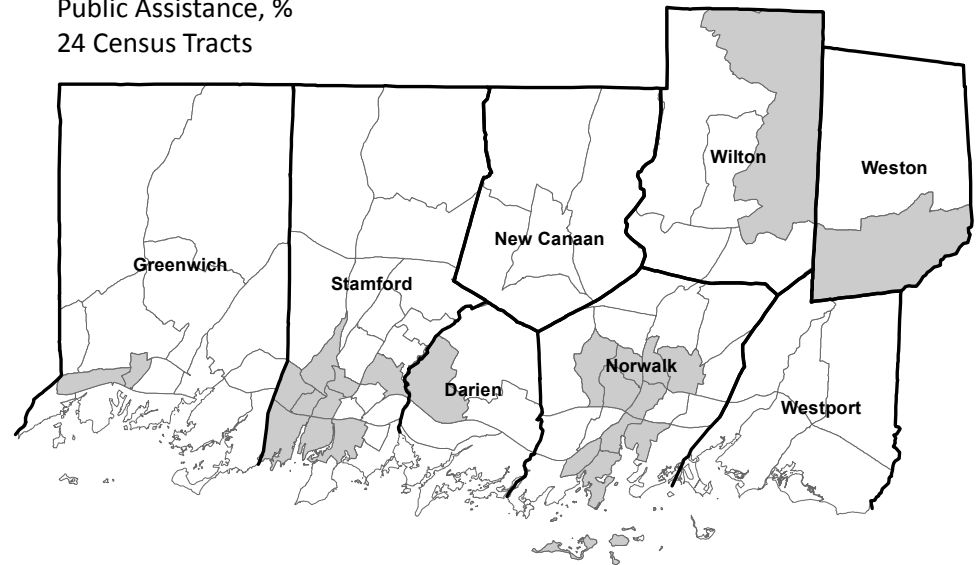
Per Capita Income
43 Census Tracts



Persons in Poverty, %
26 Census Tracts



Households Receiving
Public Assistance, %
24 Census Tracts



0 2 4 6 8 Miles

Disclaimer: This map is intended for general planning purposes only.
Sources: US Census Bureau, TIGER/Line 2010, 2010 Census Redistricting Data and 2005-2009 American Community Survey



Prepared on May 2, 2011

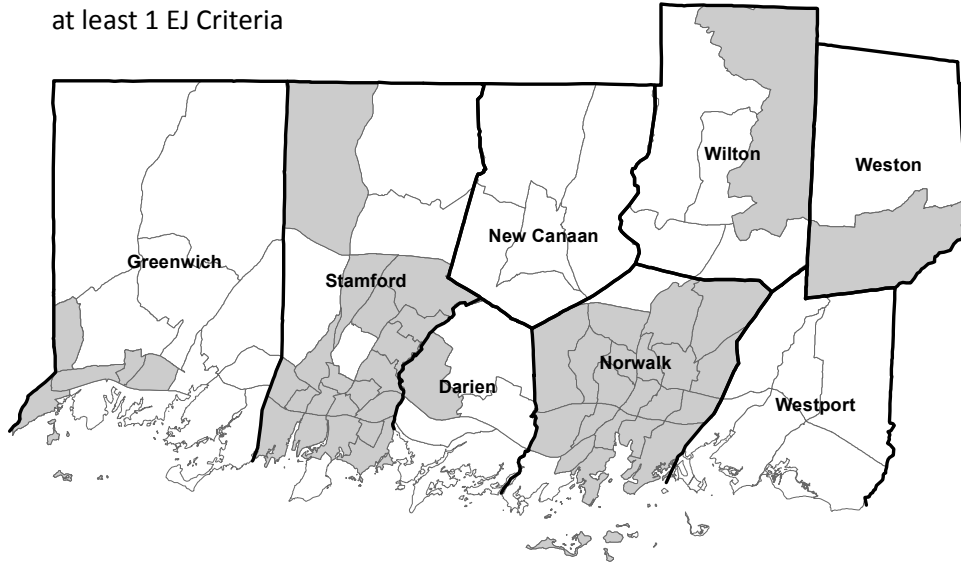
SWRPA

South Western Regional Planning Agency

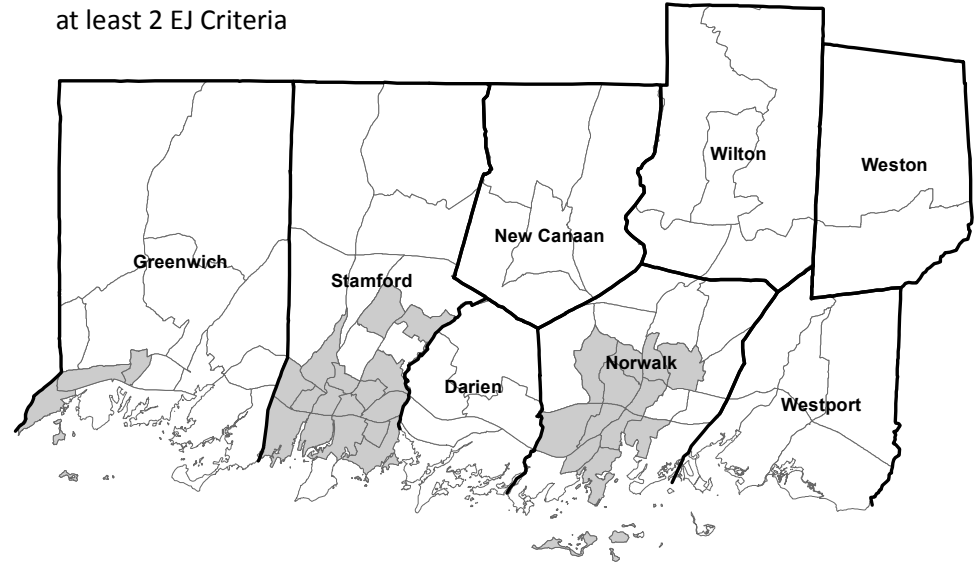
Census Tracts That Met Multiple Environmental Justice Criteria

Figure 2

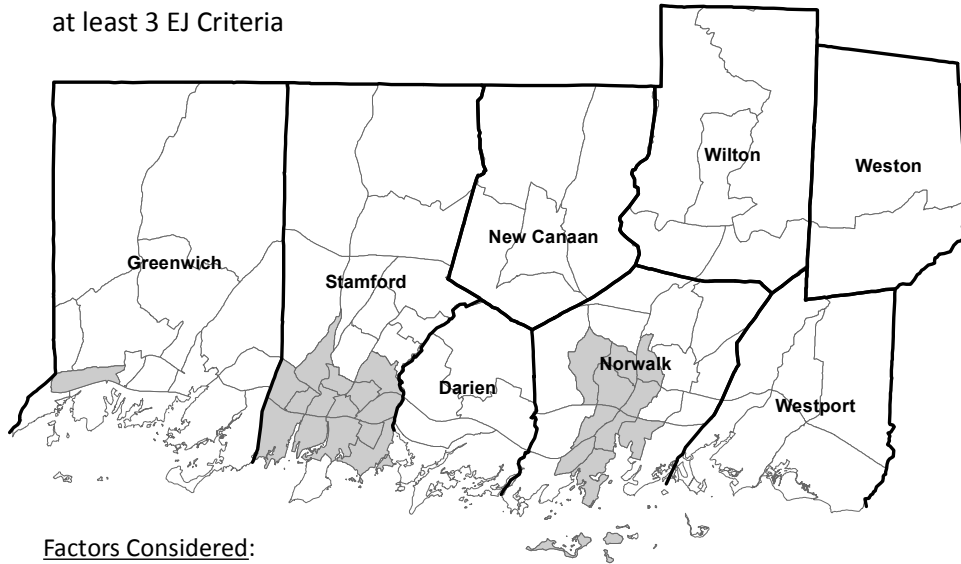
48 Census tracts that meet at least 1 EJ Criteria



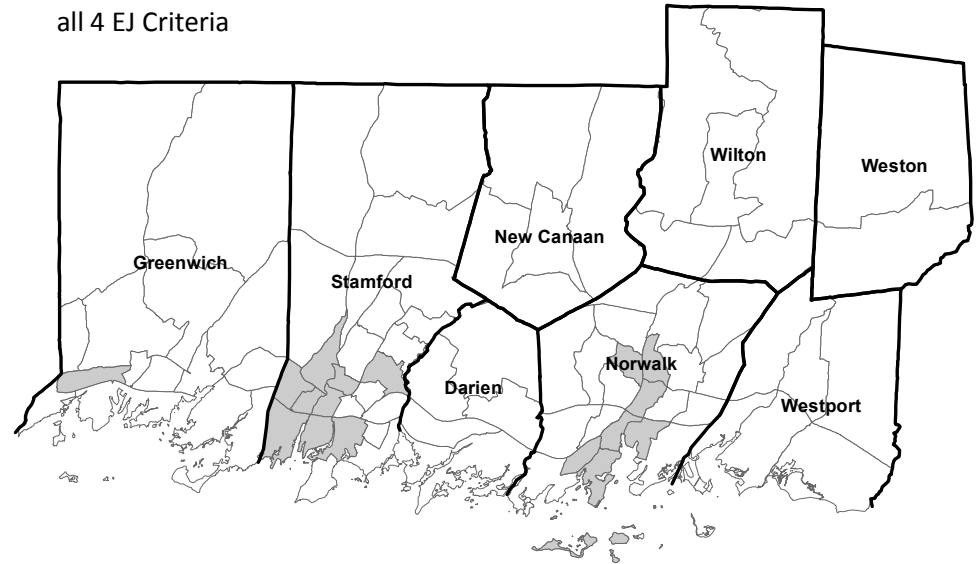
31 Census tracts that meet at least 2 EJ Criteria



25 Census tracts that meet at least 3 EJ Criteria

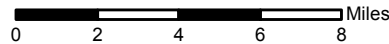


17 Census tracts that meet all 4 EJ Criteria



Factors Considered:

- Minority Population, %
- Per Capita Income
- Persons in Poverty, %
- HHs Receiving Public Assistance, %



Disclaimer: This map is intended for general planning purposes only.
Sources: US Census Bureau, TIGER/Line 2010, 2010 Census Redistricting Data and 2005-2009 American Community Survey

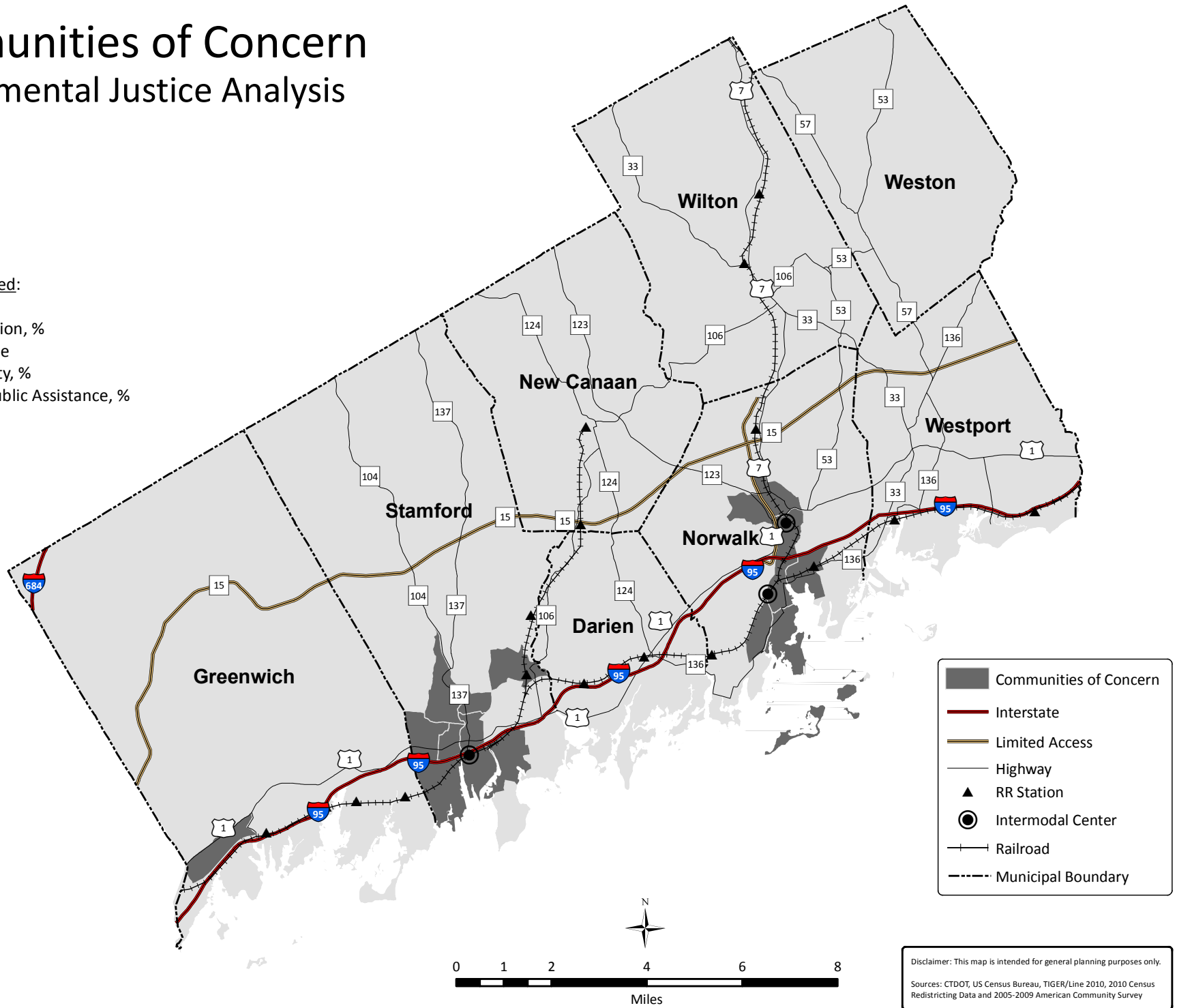


Communities of Concern Environmental Justice Analysis

Figure 3

Factors Considered:

- Minority Population, %
- Per Capita Income
- Persons in Poverty, %
- HHs Receiving Public Assistance, %



Travel Characteristics of the Population Residing in Communities of Concern

The data presented in Table 6 depicts a distinct difference between the means of transportation to work and households with no vehicle data among the population residing in the communities of concern and those residing in the remainder of the Region. For instance, workers residing in the communities of concern drove alone to work at a rate roughly 5% lower than did workers residing in the remainder of the Region. This difference is attributable, in part, to lower availability of vehicles among residents of the communities of concern. In fact, households in the communities of concern were more than four times as likely to not have a vehicle available compared to their counterparts in the remainder of the Region.

As a result of decreased availability of vehicles, workers residing in the communities of concern rely on other means of transportation at a greater rate. The population residing in the communities of concern carpool at a 7.8% higher rate than do their counterparts in the remainder of the Region. Despite the proximity of several well-served train stations (Greenwich, South Norwalk, and Stamford) to the identified Census tracts, workers residing in the communities of concern commuted on the railroad at a 7.1% lower rate than did their counterparts in the remainder of the Region. On the other hand, workers residing in the communities of concern ride the bus at a 6.1% higher rate than do their counterparts in the remainder of the Region. In fact, workers residing in the communities of concern accounted for nearly two-thirds of all bus commuters in the entire Region.

Table 6 Means of Transportation to Work and Households with No Vehicle Available, Communities of Concern and the Remainder of the Region ¹⁰

Item	Communities of Concern			Remainder			Region	
	Count	Percent	Share	Count	Percent	Share	Count	Percent
Workers 16 years and over	39,893	-	23.4%	130,345	-	76.6%	170,238	-
Drove alone	25,549	64.0%	21.9%	90,922	69.8%	78.1%	116,471	68.4%
Carpooled	5,100	12.8%	44.1%	6,462	5.0%	55.9%	11,562	6.8%
Bus	2,982	7.5%	62.0%	1,831	1.4%	38.0%	4,813	2.8%
Railroad	2,306	5.8%	12.1%	16,763	12.9%	87.9%	19,069	11.2%
Walk or Bicycle	2,854	7.2%	43.2%	3,760	2.9%	56.8%	6,614	3.9%
Other Means	439	1.1%	24.5%	1,356	1.0%	75.5%	1,795	1.1%
Worked at Home	663	1.7%	6.7%	9,251	7.1%	93.3%	9,914	5.8%
Workers 16 years and older in households	39,715	-	23.4%	129,966	-	76.6%	169,681	-
Households with Vehicle(s) Available	35,669	89.8%	21.9%	127,058	97.8%	78.1%	162,727	95.9%
Households with No Vehicle Available	4,046	10.2%	58.2%	2,908	2.2%	41.8%	6,954	4.1%

The data presented in Table 7 depicts the difference in travel time to work by the population residing in the communities of concern and those residing in the remainder of the Region. In general, workers residing in the communities of concern tend to have shorter commutes than do their counterparts in the remainder of the Region. Workers residing in the communities of concern commute less than 15 minutes, between 15 and 29 minutes, and between 30 and 44 minutes at rates 4% to 6% greater than do their counterparts in the remainder of the Region. Perhaps most notably, workers residing in the communities of concern have a 7.6% lower rate

¹⁰ U.S. Census Bureau, 2005-2009 American Community Survey 5-Year Estimates.

of very long commutes (60 or more minutes) compared to their counterparts in the remainder of the Region. This is probably attributable to the significant number of workers residing in the remainder of the Region who commute to Manhattan.

Table 7 Travel Time to Work, Communities of Concern and the Remainder of the Region ¹¹

Item	Communities of Concern			Remainder			Region	
	Count	Percent	Share	Count	Percent	Share	Count	Percent
Workers 16 years and over	39,893	-	23.4%	130,345	-	76.6%	170,238	-
Worked at home	663	1.7%	6.7%	9,251	7.1%	93.3%	9,914	5.8%
Less than 15 minutes	12,803	32.1%	26.4%	35,735	27.4%	73.6%	48,538	28.5%
15 to 29 minutes	14,787	37.1%	26.0%	42,115	32.3%	74.0%	56,902	33.4%
30 to 44 minutes	6,464	16.2%	28.6%	16,117	12.4%	71.4%	22,581	13.3%
45 to 59 minutes	1,734	4.3%	22.5%	5,971	4.6%	77.5%	7,705	4.5%
60 or more minutes	3,442	8.6%	14.0%	21,156	16.2%	86.0%	24,598	14.4%

Implications of Travel Characteristics

This analysis provides insight into potential benefits and burdens incurred by the population residing in the communities of concern from improvements to the Region’s transportation systems. Census figures indicate that workers residing in the communities of concern rely more heavily upon different means of transportation to access employment locations than do their counterparts in the remainder of the Region. Specifically, workers residing within communities of concern rely more on carpooling, walking, bicycling, and bus transit. They rely less on driving alone and much less on the railroad. Workers residing within communities of concern also tend to have shorter commute times than their counterparts in the remainder of the Region. Especially noteworthy are the limited number of workers with extreme commutes (60 or more minutes).

In order to quantify the benefits and impacts of transportation improvements on the ability of the population of concern to reach places of employment, additional information is needed. The Census data reflects actual travel patterns but not necessarily the desired or preferred travel patterns. SWRPA will continue to research approaches to benefits and burdens assessment and will pursue activates that are both feasible and effective.

Potential disproportionately high and adverse impacts on populations residing within the communities of concern extend beyond commutation to work and encompass human health or environmental effects and interrelated social and economic effects. Transportation projects can impact air quality, water quality, drainage and stormwater and public safety, which can all be quantitatively measured. Transportation projects can also affect community cohesion, economic development, noise, aesthetics, property values and cultural resources.¹² In order to understand and mitigate the impacts of transportation projects on populations of concern, quantitative evaluations should be conducted as part of an open process that relates back to performance measures.

¹¹ U.S. Census Bureau, 2005-2009 American Community Survey 5-Year Estimates.

¹² National Cooperative Highway Research Program. 2004. *Report 532: Effective Methods for Environmental Justice Assessment*.

On the other hand, transportation projects can accrue significant benefits to populations residing within the communities of concern. Transportation projects can enhance mobility and access and in certain cases, minimize the impact of the transportation system on environmental quality, public safety, and community. Benefits accrued from improvements to the transportation system must be balanced against any hardships they impose upon adjacent populations, especially those located within identified communities of concern.

Linguistically Isolated Households

According to the 2009 American Community Survey, 9,549 households in the Region, or 7.1%, are considered to be linguistically isolated. The Census Bureau defines a linguistically isolated household as "one in which no member 14 years old and over (1) speaks only English or (2) speaks a non-English language and speaks English 'very well.' In other words, this definition includes all members 14 years old and over who have at least some difficulty with English."¹³ Among all linguistically isolated households in the Region, 5,142 spoke Spanish, 3,590 spoke other Indo-European languages, 771 spoke Asian and Pacific Island languages and 46 spoke other languages.

The data provided in Table 8 indicate that households in the communities of concern are more than twice as likely to be linguistically isolated than the Region as a whole. In fact, households located within the communities of concerns accounted for more than half of all linguistically isolated households in the Region, well in excess of their percentage of total households (22.7%). Further, households in the communities of concern account for nearly two-thirds of all linguistically isolated Spanish households in the Region. Of note, linguistically isolated households within the communities of concern were nearly twice as likely to speak Spanish as any other foreign language.

Table 8 Household Language by Linguistic Isolation, Communities of Concern and the Region¹⁴

	Communities of Concern									South Western Region	
	Greenwich		Norwalk		Stamford		Total			Count	Percent
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Share		
Total:	2,419	-	9,016	-	19,112	-	30,547	-	22.7%	134,323	-
English	1,648	68.1%	5,401	59.9%	10,043	52.5%	17,092	56.0%	18.4%	93,090	69.3%
Spanish	236	9.8%	2,361	26.2%	4,767	24.9%	7,364	24.1%	43.7%	16,847	12.5%
Other Indo-European Languages	416	17.2%	1,141	12.7%	3,054	16.0%	4,611	15.1%	24.5%	18,843	14.0%
Asian and Pacific Island Languages	119	4.9%	74	0.8%	1,160	6.1%	1,353	4.4%	28.8%	4,693	3.5%
Other Languages	0	0.0%	39	0.4%	88	0.5%	127	0.4%	14.9%	850	0.6%
Linguistic Isolation:	179	7.4%	1,423	15.8%	3,471	18.2%	5,073	16.6%	53.1%	9,549	7.1%
Spanish	54	2.2%	964	10.7%	1,991	10.4%	3,009	9.9%	58.5%	5,142	3.8%
Other Indo-European Languages	125	5.2%	440	4.9%	1,217	6.4%	1,782	5.8%	49.6%	3,590	2.7%
Asian and Pacific Island Languages	0	0.0%	0	0.0%	249	1.3%	249	0.8%	32.3%	771	0.6%
Other Languages	0	0.0%	19	0.2%	14	0.1%	33	0.1%	71.7%	46	0.0%

¹³ U.S. Census Bureau, 2000 Census of Population and Housing, Summary File 3.

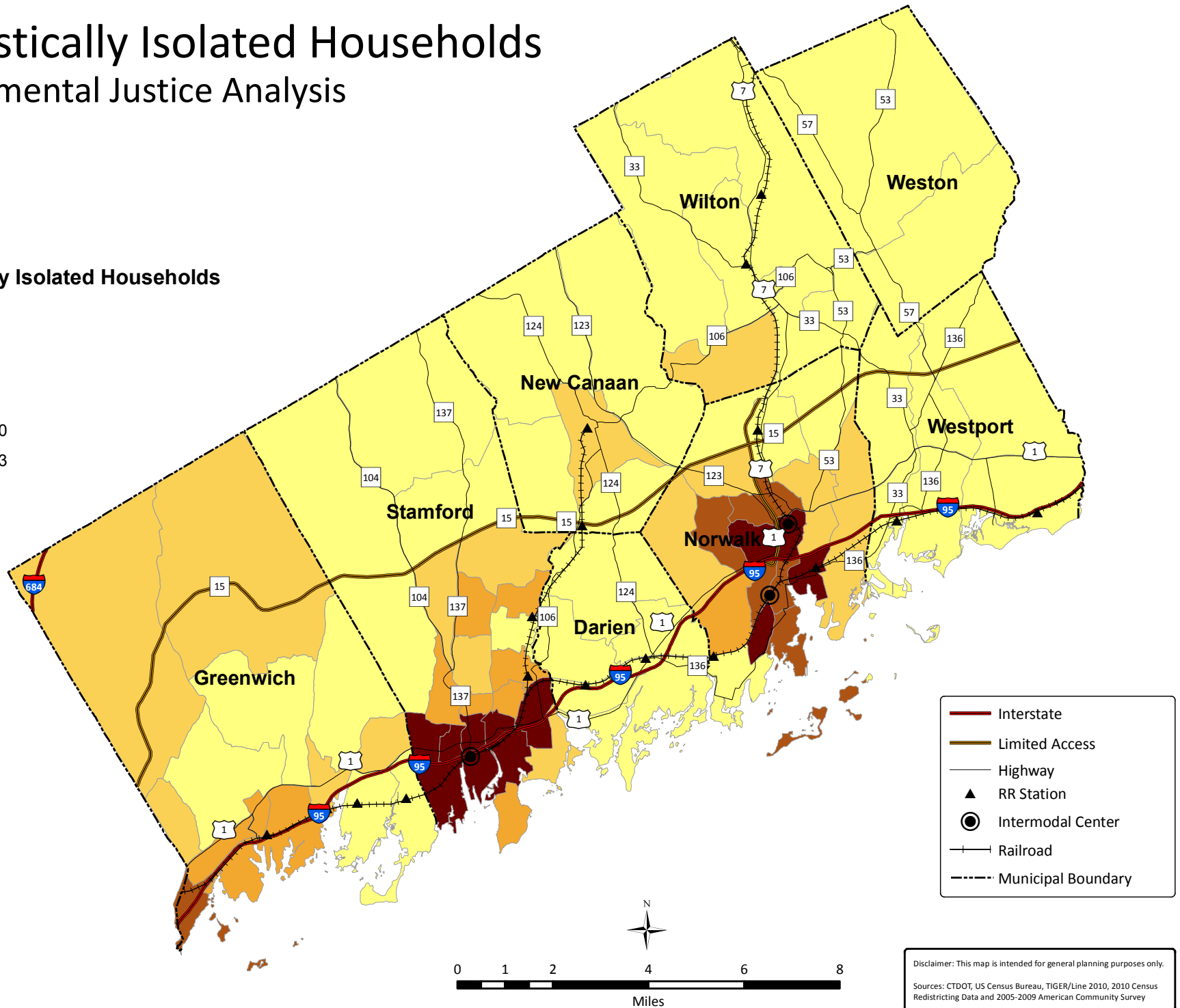
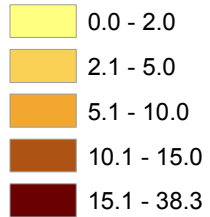
¹⁴ U.S. Census Bureau, 2005-2009 American Community Survey 5-Year Estimates.

Linguistically Isolated Households Environmental Justice Analysis

Figure 4

Linguistically Isolated Households

Percent



Participation in the Decision-Making Process

To ensure that transportation improvements will benefit the population residing within the communities of concern, SWRPA promotes full and fair participation by all persons in the transportation decision-making process. Since the inception of the transportation planning process in 1981, SWRPA has proactively encouraged public involvement. The [2009 Public Participation Plan of the South Western Region Metropolitan Planning Organization \(PPP\)](#), endorsed in May 2009, defines the procedures. The process includes regularly scheduled meetings of the [South Western Region Metropolitan Planning Organization \(SWRMPO\)](#) and the [Transportation Technical Advisory Group \(TTAG\)](#). The annual meeting schedule is issued to all stakeholders and Town Clerks as well as posted on the SWRPA website along with meeting agendas and summaries. Additionally, media releases with meeting information and relevant agenda items are issued to all local newspapers one week prior to MPO meeting, which includes information on how to arrange for translation services. Formal legal notices are published for SWRMPO meetings, the [Transportation Improvement Program \(TIP\)](#), the [South Western Region Long Range Transportation Plan 2011 - 2040 \(LRTP\)](#), and public involvement process changes. In addition, notices of meetings of interest to transportation stakeholders and opportunities to participate in public input sessions or to review and comment on documents are posted to the SWRPA website, which includes a translation link, and sent via e-mail to interested parties.

In 2006, SWRPA analyzed social vulnerability for evacuation as part of an emergency preparedness planning exercise. Social vulnerability was determined by analyzing a series of demographic characteristics, including:

- Population 5 years or under
- Population 85 years or over
- Population (over 5 years) with disabilities
- Institutionalized population in group quarters
- Households with linguistic isolation
- Occupied housing units with no vehicles

This analysis revealed the spatial variability of populations likely to require additional assistance beyond their own means in case of evacuation. The report was shared with state and local emergency management officials.

In FY2006-07, SWRPA participated in the creation of a [Locally Coordinated Human Services Transportation Plan \(LOCHSTP\)](#). The *LOCHSTP* entails three human service transportation program funding streams and provides the key initiatives and recommendations for coordinated human services transportation for the Bridgeport-Stamford Urbanized Area. Plan development was a product of a cooperative planning process that integrated the expertise of state and regional planning organizations with the insight generated from extensive community outreach performed by SWRPA to representatives of human services organizations and advocacy groups for seniors, persons with disabilities and lower income persons. Regularly scheduled meetings of a *LOCHSTP* working group provided public forums to address SWRPA on the needs of the community. SWRPA assumed the lead role in writing the *LOCHSTP*, along with

the development, hosting and continual updating of a website containing all pertinent documents and meeting information necessary to effectively communicate with the public. The *LOCHSTP* was updated in FY2007-08 to address the evolving transportation needs of the targeted populations in greater detail. The update included an emphasis on special populations, the FTA New Freedoms Initiative (NFI) program, increased outreach and public involvement.

In 2004 and 2010, SWRPA provided technical assistance to Norwalk Transit District (NTD) in support of their Title VI compliance reporting. Title VI of the 1964 Civil Rights Acts states that "no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance¹⁵." SWRPA staff assisted NTD with GIS maps of its service area that identify fixed route bus service in relation to low income and minority populations. Demographic data for the maps was obtained from the 2000 Census of Population and Housing.

In FY2009-10, SWRPA expanded its network of contacts with stakeholders, other community organizations, and individuals. When topics of interest to the network are identified, key contacts are notified and encouraged to pass on the information to other interested parties. A past example of the usefulness of this network is the Stamford Transportation Center taxi surcharge proposals and hearings. Notice of this proposal was sent to key social service contacts, who in turn provided the information to interested and impacted parties. In this instance, the Connecticut Department of Transportation (CTDOT) terminated its taxi passenger surcharge, which negatively impacted both riders and taxi drivers, in part because of the comments received from impacted parties at public hearings.

SWRPA uses its website, <http://www.swrpa.org>, as a major communication tool to broadcast public information and encourage involvement. The website provides information on the transportation planning process and leadership. Numerous documents produced by SWRPA and SWRMPO are posted to the website, including MPO and TTAG notices, agendas and meeting summaries, the *L RTP*, *TIP*, and the *Unified Planning Work Program*. Other transportation planning program information is also available for key topics such as Air Quality Conformity, Environmental Justice, Intelligent Transportation Systems (ITS), and Congestion Management Process (CMP). Technical memoranda, meeting agendas and summaries, project scopes and schedules, and other documents produced as part of key planning studies are also available on the website. In 2009, SWRPA made upgrades to the website, which make it a more interactive as well as easier to use and more visually appealing.

In addition, SWRPA's website provides information on transportation activities, projects, public hearings and draft documents of other agencies that are deemed to impact or be of interest to the South Western Region transportation stakeholders. Some examples of this include CTDOT studies such as the CTDOT *Long Range Transportation Plan*, Statewide *TIP*, Federal Stimulus / ARRA efforts and the Danbury Branchline Study.

¹⁵ 42 U.S.C. Section 2000d.

In FY2011 and FY2012, SWRPA will continue to evaluate language barriers and the public involvement process, and further refine environmental justice evaluations and recommendations. This will lead to new policies and programs to address public involvement, Title VI and Limited English Proficiency. An example of this is an effort underway to translate the executive summary of the *L RTP* into Spanish. SWRPA hopes to translate other documents or executive summaries, as feasible. This initiative will build upon FY2009-10 work which emphasized development of community outreach mechanisms and networks of minority, community, senior, and faith-based organizations and identified newspapers likely to be read by the populations of concern and providing a translation link to SWRPA's website.

Transportation Improvement Program and Long Range Transportation Plan

The [South Western Region Transportation Improvement Program, FFY 2010 – 2013](#) (*TIP*) and the [South Western Region Long Range Transportation Plan 2011-2040](#) (*L RTP*) include a mix of highway, rail, bus, carpool, bicycle and pedestrian transportation improvements. The overarching goal of the *L RTP* is to provide a safe, efficient, cost effective and balanced transportation system that promotes mobility, access and choice. The proposed projects in the *L RTP* are often implemented through the *TIP*. A list of 2010-2013 *TIP* projects endorsed by the South Western Region Metropolitan Planning Organization that are located within communities of concern is provided in Appendix B. A list of projects contained in the *L RTP* that are located within communities of concern is provided in Appendix C. The list of *TIP* projects includes a descriptive name, location, cost, funding source, and an overall evaluation of the benefit or burden to the local community. The list of *L RTP* projects include a descriptive name, location, approximate year of implementation, and an overall evaluation of the benefit or burden to the local community. Figure 5 illustrates proposed *TIP* projects with a definitive geographic location that are within communities of concern, while Figure 6 illustrates proposed *L RTP* projects with a definitive geographic location that are within communities of concern. Certain *L RTP* and *TIP* projects, such as transit rolling stock acquisition and replacement, transit operating funds, vehicle emissions reductions program and carpool incentive programs, lack a specific geographic location and are therefore omitted from Figures 5 and 6.

TIP adoption follows a proscribed process that encourages public involvement. The public is provided with multiple opportunities to examine the *TIP* and provide comments on the document through SWRPA's website, public hearings, and direct contact with SWRPA staff during regular office hours. The notice of availability of the draft *TIP* update and public information sessions are legally noticed prior to *TIP* adoption. SWRPA's public involvement procedures are more fully described in the *PPP*.

The *TIP* includes highway projects for I-95 and other arterials that will improve traffic flow and safety. For instance, reconstruction of the Metro-North Railroad bridge over East Avenue in Norwalk will reduce congestion as well as promote economic development in East Norwalk, a portion of which is a community of concern. Similarly, Stamford Urban Transitway will improve access to and economic development opportunities in the South End and East Side neighborhoods of Stamford, both of which are communities of concern. Improvements to the South Western Region's transit system, such as completion of the Norwalk Pulse Point Security and Safety project as well as enhanced bus service on Stamford Urban Transitway, will benefit all transportation system users including persons residing in the communities of concern who rely on the bus.

In addition to projects contained in the *TIP*, there are numerous recommended projects in the *L RTP*. For instance, the *L RTP* recommends the completion of the CT-15 and US 7 interchange, which would reduce travel time to and from locations east of the interchange and add redundancy to the Region's expressway system. Completing the interchange would reduce congestion and improve safety on Main Avenue in Norwalk. These improvements should have the net effect of improving access to many employment locations, which should benefit

persons residing in the communities of concern. The South Norwalk Intermodal project will integrate rail, bus and taxi services and improve parking, pedestrian and bicycle facilities around a major transit station.

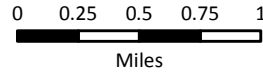
In addition, the *L RTP* recommends the completion of the Norwalk River Valley Trail and the Mill River Greenway. These projects will promote the bicycle and pedestrian mobility and safety between residential and commercial areas for all as well as provide a healthy, active transportation options for persons residing in the communities of concern.

An open planning process was used during the development of the updated *L RTP*. Prior to MPO adoption, the public was given numerous opportunities to examine the draft *L RTP* and comment on the plan through SWRPA's website, public hearings held throughout the Region, and at SWRPA's offices during regular office hours. The availability of the draft *L RTP* update and public information sessions were legally noticed, as was SWRMPO and TTAG discussions and actions on the *L RTP* prior to adoption.

TIP Projects Located in Communities of Concern

Environmental Justice Analysis

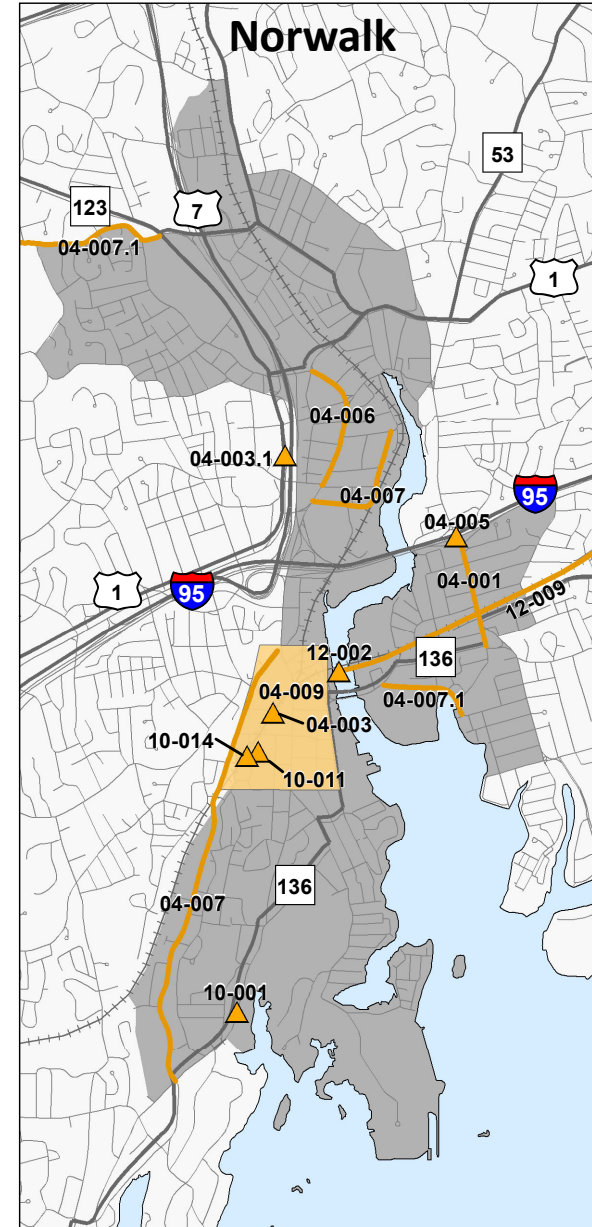
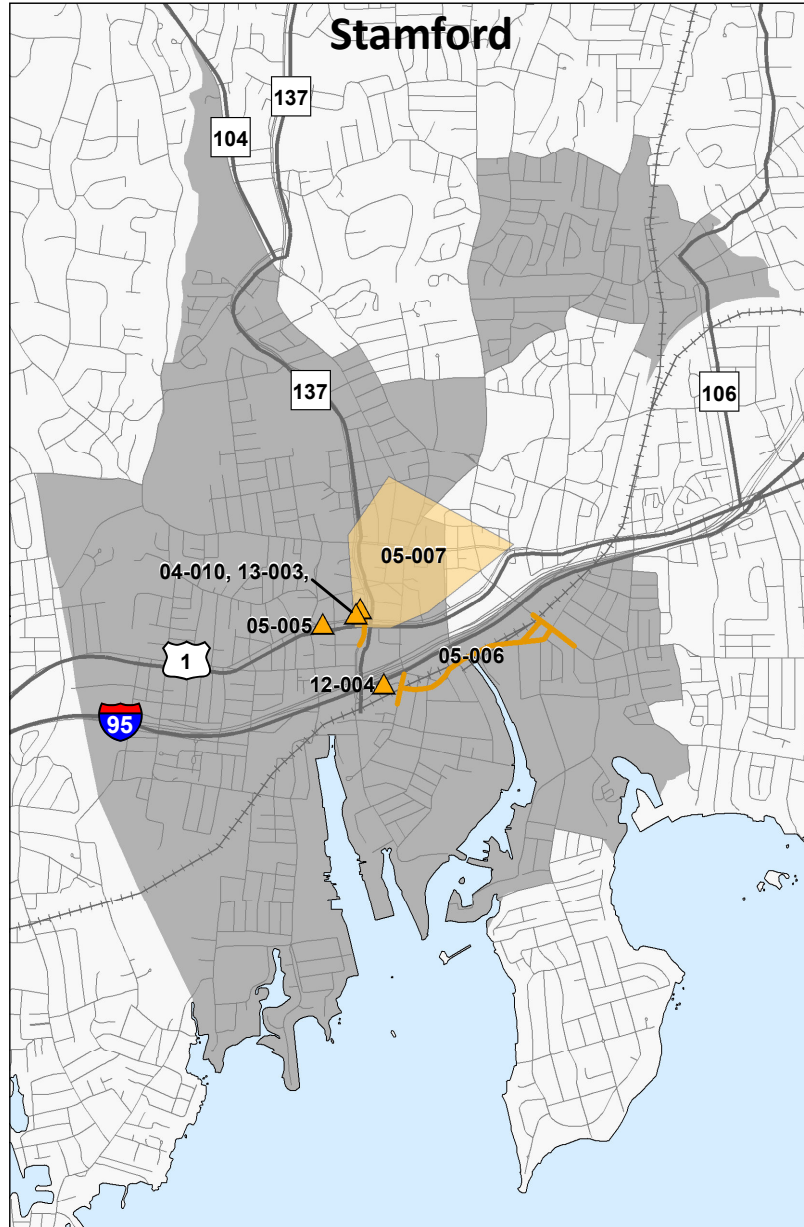
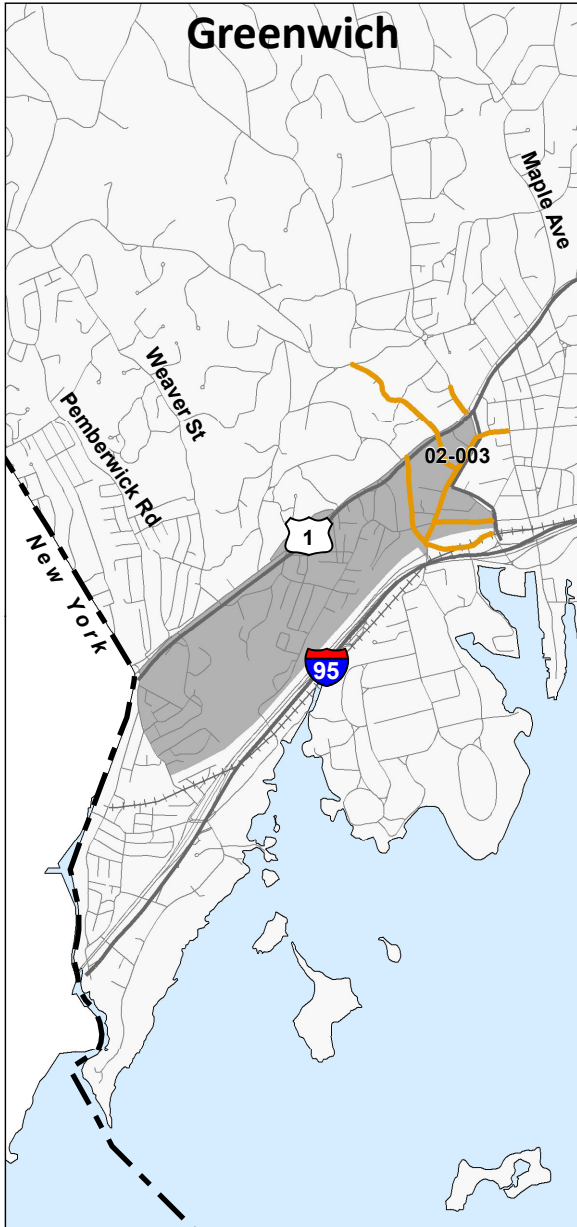
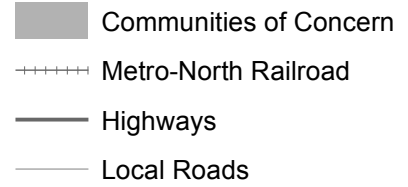
Figure 5



Disclaimer: This map is intended for general planning purposes only.
Sources: CTDOT, CTDEP, SWRPA L RTP



*Refer to Appendix B for Corresponding Project IDs

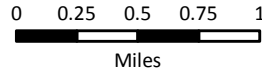


L RTP Projects Located in Communities of Concern

Environmental Justice Analysis

Figure 6

Prepared on May 4, 2011
SWRPA
South Western Regional Planning Agency

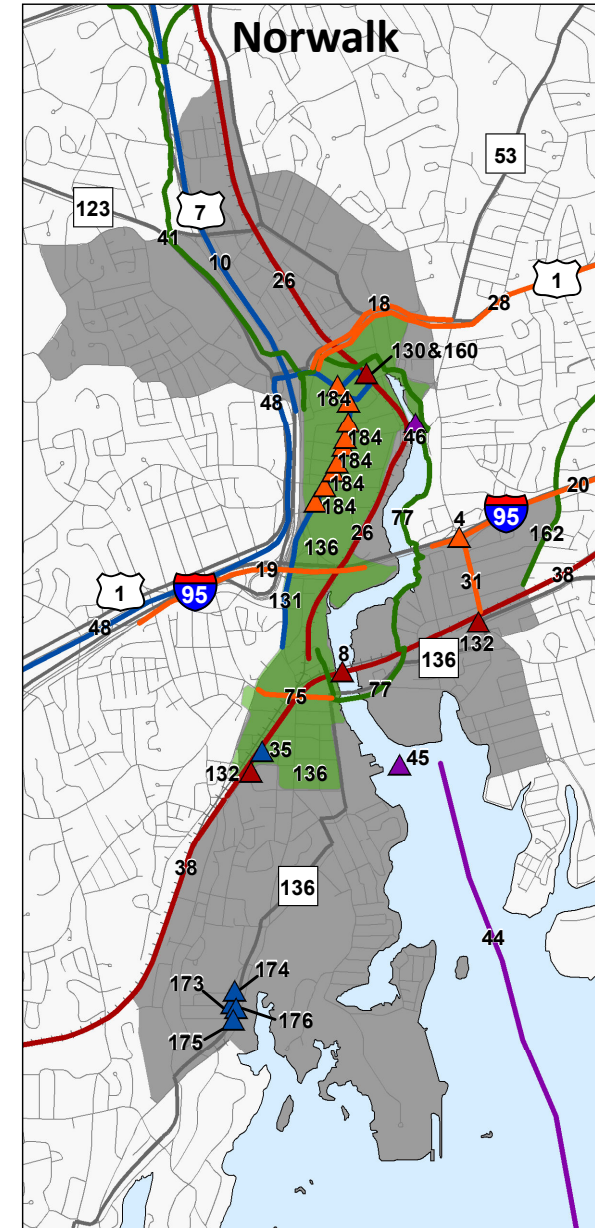
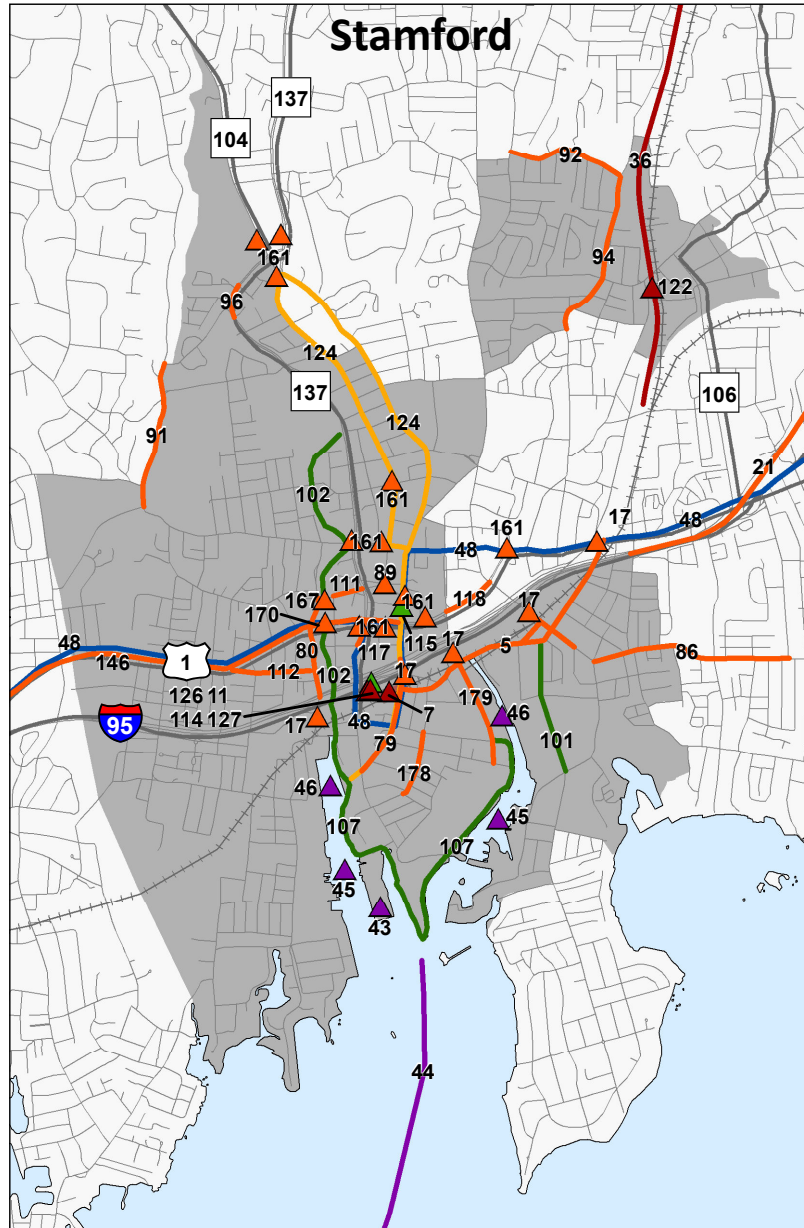
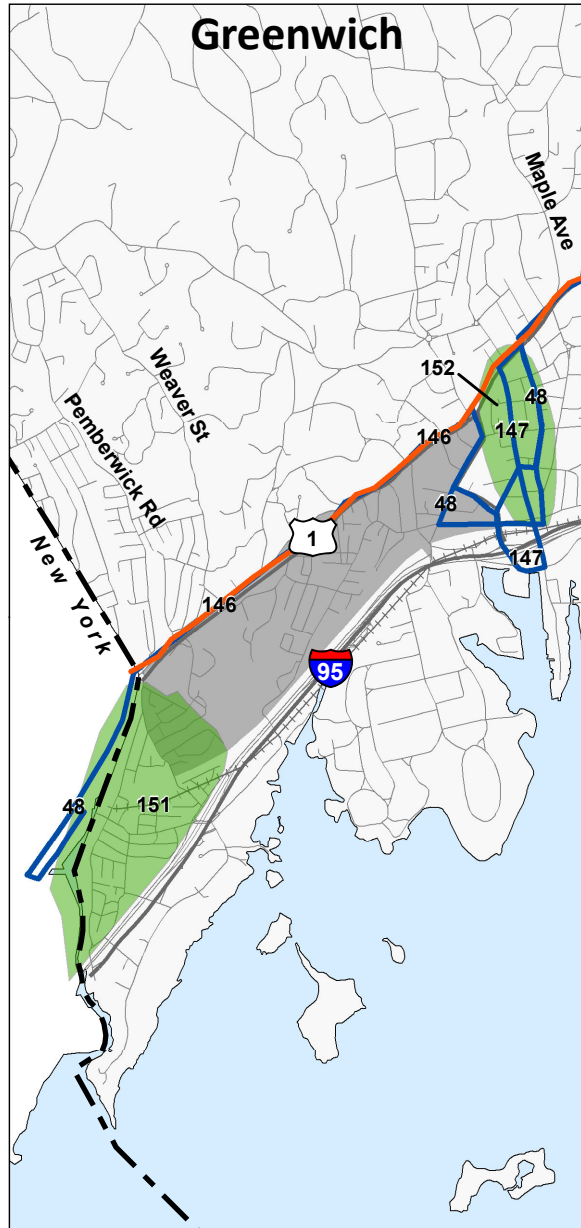


Disclaimer: This map is intended for general planning purposes only.
Sources: CT DOT, CT DEP, SWRPA LRTP

- ▲ Bike-Ped Projects
- Bus Projects
- Highway Projects
- Rail Projects
- Streetcar Projects
- Waterborne Projects

- Communities of Concern
- Metro-North Railroad
- Highways
- Local Roads

*Refer to Appendix C for Corresponding Project IDs



Benefits and Burdens Evaluation

In order to understand the potential benefits and burdens upon communities of concern resulting from projects listed in the *2010-2013 TIP* and *2011-2040 LRTP*, an evaluation was conducted. The criteria used to evaluate the potential benefits and burdens of the projects are summarized below. The evaluation is based on the best available project information. For both the *TIP* and the *LRTP*, all projects located in a community of concern are also located in an area with at least one linguistically isolated household. Projects identified as benefiting communities of concern include projects aimed at reducing congestion, increasing access to transit, or improving access and safety for pedestrians and bicycles. A number of the projects located in communities of concern were also identified as having no impact on benefits and burdens. These projects were generally associated with regular maintenance and maintaining a state of good repair.

Projects located in communities of concern account for 50% of all funding provided in the *2010-2013 TIP*. None of the *TIP* projects located in communities of concern are expected to disproportionately burden a community of concern. *TIP* projects located in communities of concern that are expected to benefit a community of concern represent 16% of all total funding, while *TIP* projects located in communities of concern that are expected to have no impacts on a community of concern represent 34% of all total funding (Table 9). Results of the evaluation are included in Appendix B.

Table 9 Summary of Benefits and Burdens Associated with 2010-2013 TIP Projects Located in Communities of Concern (based on proportion of funding)

Proportion of Total Funding for Projects Located in Communities of Concern	50%
Proportion of Total Funding for Projects Benefiting Communities of Concern	16%
Proportion of Total Funding for Projects with Potential Burdens to Communities of Concern	0%
Proportion of Total Funding for Projects with No Impact to Communities of Concern	34%
Proportion of Total Funding Allocated to Bus Service	9%
Proportion of Total Funding Allocated to Rail Service	21%
Total TIP Funding	\$1,145,508,647

The potential impacts of projects identified in the *2011-2040 LRTP* were also assessed. Of the 175 projects included in the *LRTP*, 38% are located within communities of concern. None of these projects are expected to burden a community of concern. *LRTP* projects located in the communities of concern that are expected to benefit the local community represent 18% of all *LRTP* projects, while *LRTP* projects located in the communities of concern that are expected to have no impacts on the local community represent 20% of all *LRTP* projects (Table 10). Results of the evaluation are included in Appendix C.

Table 10 Summary of Benefits and Burdens Associated with 2011-2040 LRTP Projects Located in Communities of Concern (based on proportion of projects)

Proportion of All Projects Located within Communities of Concern	38%
Proportion of All Projects Benefiting Communities of Concern	18%
Proportion of All Projects with Potential Burdens to Communities of Concern	0%
Proportion of All Projects with No Impact to Communities of Concern	20%
Total Number of LRTP Projects	175

Benefits and Burdens Evaluation Criteria

- **Congestion:** + = Completed project expected to alleviate congestion based on the criteria below; 0 = no change; - = project that when complete would increase congestion.

Criteria

Projects that satisfy one or more of the following:

- Any project with a clear stated purpose of mitigating congestion;
 - Any project with a clear stated purpose of improving transportation system management and operations;
 - Any project with a location on an identified congested state highway ($V/C > 0.8$) that includes one or more of the following elements:¹⁶
 - Transportation demand management measures
 - Traffic operational improvements
 - Measures to encourage high occupancy vehicle use
 - Transit capital improvements
 - Transit operational improvements
 - Measures to encourage the use of non-motorized modes
 - Congestion pricing
 - Growth management
 - Access management
 - Incident management
 - Intelligent Transportation Systems
 - General purpose capacity expansion
- **Air Quality:** + = When complete would reduce mobile emissions; 0 = neither positive nor negative air quality impacts; - = projects that may negatively affect air quality in the community.
 - **Access to Transit:** + = increased access to transit; 0 = no change in service level; - = reduces access to transit.

¹⁶ New York State Associations of Metropolitan Planning Organizations (NYSMPOs): Congestion Management Process (CMP) Innovations: A Menu of Options, 42.

- **Bike or Pedestrian Access:** + = improvements to bike and pedestrian access or safety based on the criteria below; 0 = no change; - = elimination of a system improving bike or pedestrian access.

Criteria

Projects identified as impacting or improving the bicycle and pedestrian system:

- New, improved or rehabilitated sidewalks, including accessible ramps and other features and sidewalks on bridges (*sidewalk*);
 - New, improved or rehabilitated multi-use trails or bicycle facilities, including bike lanes (*multi-use*);
 - Roadway safety improvements that provide tangible safety benefits to bicyclists and pedestrians, including traffic signal projects that include pedestrian actuation (*safety*);
 - Roadway repaving projects that improve the road surface used by bicyclists (*paving*);
 - New, improved or rehabilitated bicycle parking or storage (*bike storage*);
 - Multimodal improvements, such as bicycle or pedestrian improvements to transit facilities, and multimodal planning studies (*multimodal*).
- **Located in a Tract with at least 1 linguistically isolated household:** Yes/No.
 - **Located in Tract >10% Linguistic Isolation:** Yes/No.
 - **Overall Benefit or Burden:** Benefit = project where positive impacts (+) outweigh negative impacts (-) or where positive impacts are identified for at least two categories; Burden = project where negative impacts (-) outweigh positive impacts (+) or where negative impacts are identified for at least two categories; Neutral = project where positive (+) and negative (-) impacts are equal or where impacts are identified for less than two categories.
 - **Funding allocations:** (*TIP* assessment based on proportion of total funds. *L RTP* assessment based on proportion of projects, due to limited information on project funding).
 - Proportion of total funds allocated to projects benefiting communities of concern;
 - Proportion of total funds allocated to projects with potential burdens on communities of concern;
 - Proportion of total funding allocated to bus services;
 - Proportion of total funding allocated to rail services.

South Western Region Commitment to Environmental Justice Principles

SWRPA on behalf of the SWRMPO will continue to develop environmental justice assessments, procedures, programs, policies and services that promote environmental justice principles. This commitment to environmental justice is supported by recommendations that will lead to policy, process, program and service changes. Annual self-evaluations of the public involvement process, environmental justice and Title VI will be conducted.

Specific recommendations for FY2011 and FY2012 include:

- Continue to implement public involvement procedures described in the SWRMPO-endorsed *PPP*;
- Conduct annual evaluations of *PPP* and refine as appropriate;
- Continue to research and refine benefits and burdens analyses and procedures;
- Develop a framework to assess benefits and burdens that fully considers the balance of impacts upon a community;
- Continue to assess the EJ implication of projects on the *TIP* and *L RTP* with the objective of assuring that there are no disproportionate negative impacts as a result of project scope, scheduling or funding level and that the benefits resulting from improvements are equitably apportioned throughout the Region;
- Consider which, if any, other populations should be included in benefits and burdens assessment and community outreach activities;
- Continue to expand the community outreach contacts and network opportunities and procedures;
- Continue to enhance transportation planning program information available on the SWRPA website;
- Continue to explore ways to increase accessibility to transportation planning program information and services on the web, in the media, and through outreach; and,
- Continue to advance EJ, Title VI and public involvement as “emphasis areas” of the South Western Region transportation planning program.

DRAFT

Appendix A

Census Tracts that Met all Four Environmental Justice Criteria

Town	Census Tract	Total Population	Minority Population	Percent Minority	Per Capita Income	Poverty Status Determined	Below Poverty Level	Percent Below Poverty Level	Total Households	With Public Assistance	Percent With Public Assistance
Greenwich	105	5,494	2,240	40.77%	\$61,697	5,339	530	9.93%	2,419	43	1.78%
Norwalk	433	3,196	1,512	47.31%	\$30,089	3,252	364	11.19%	1,145	20	1.75%
	434	4,471	2,872	64.24%	\$25,152	4,506	414	9.19%	1,809	80	4.42%
	437	2,039	1,467	71.95%	\$20,897	1,987	336	16.91%	942	41	4.35%
	441	3,509	2,429	69.22%	\$27,164	3,080	642	20.84%	1,296	23	1.77%
	442	3,994	2,032	50.88%	\$38,046	3,120	302	9.68%	1,599	42	2.63%
	444	3,572	2,666	74.64%	\$25,928	3,303	811	24.55%	1,233	95	7.70%
	445	3,641	3,349	91.98%	\$18,236	3,103	1,351	43.54%	992	96	9.68%
	Total	50,227	33,698	67.09%	\$33,271	47,752	7,603	15.92%	19,112	669	3.50%
Stamford	201	3,523	1,947	55.27%	\$36,932	3,556	896	25.20%	2,025	222	10.96%
	211	5,976	2,292	38.35%	\$43,254	5,817	402	6.91%	2,380	43	1.81%
	213	4,422	2,292	51.83%	\$33,742	3,828	449	11.73%	1,453	34	2.34%
	214	6,690	5,362	80.15%	\$21,366	5,784	802	13.87%	2,136	65	3.04%
	215	6,303	5,734	90.97%	\$16,995	6,604	1,242	18.81%	2,061	43	2.09%
	216	7,151	4,097	57.29%	\$45,304	6,966	573	8.23%	3,501	104	2.97%
	221	7,213	5,154	71.45%	\$32,425	6,415	1,558	24.29%	2,539	81	3.19%
	222	3,186	2,703	84.84%	\$20,263	2,873	633	22.03%	948	24	2.53%
	223	5,763	4,117	71.44%	\$45,263	5,909	1,048	17.74%	2,069	53	2.56%
	Total	24,422	16,327	66.85%	\$26,923	22,351	4,220	18.88%	9,016	397	4.40%
Total	80,143	52,265	65.21%	\$33,285	75,442	12,353	16.37%	30,547	1,109	3.63%	

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Appendix B

**TIP Projects, FFY 2010 – 2013, Located within Communities of Concern
with Results of Benefits and Burdens Evaluation**

SWRPA ID	Project #	Route	Town	Project Name	Description	Total Amount of Funding FY10-FY13	Funding Source	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
02-003	0056-0308	Various	Greenwich	Greenwich American Recovery and Reinvestment Act	Pavement improvements and additional traffic control signage and pavement markings in Greenwich at various segments of Field Point Road, Deerfield Drive, Brookside Drive, West Elm Street, Railroad Avenue, Prospect Street, and Horseneck Lane.	\$1,368,000	FHWA	0	0	0	+	Yes	No	Neutral
04-001	0102-0297	East Ave	Norwalk	Reconstruction of East Ave at Metro-North RR Bridge	Reconstruction and minor widening of East Ave from I-95N ramp south to Van Zant Street in Norwalk, including a new sidewalk and the widening and vertical clearance improvements at the Metro North RR bridge on East Avenue.	\$6,316,000	FHWA	+	+	+	+	Yes	Yes	Benefit
04-003	0102-0326	Various	Norwalk	Norwalk Traffic Signal System Upgrade Phase 1	Replacement of computerized traffic signal controllers as a means to upgrade the city of Norwalk's closed loop traffic circuit at various intersections.	\$19,854,000	FHWA	+	+	0	+	Yes	Yes	Benefit
04-003.1	0102-0337	Various	Norwalk	Norwalk Traffic Signal System Upgrade Breakout	Replacement of computerized traffic signal controllers as a means to upgrade the city of Norwalk's closed loop traffic circuit at various intersections.	\$4,263,000	FHWA	+	+	0	+	Yes	Yes	Benefit
04-005	0102-0331	I-95	Norwalk	I-95 Interchange 16 at East Ave	Provide turn lane on bridge & replace bridge superstructure.	\$8,370,000	FHWA	+	+	0	+	Yes	Yes	Benefit
04-006	0102-0334	West/Belden Ave	Norwalk	Traffic Signal Upgrade West and Belden Avenues	Upgrade of the existing traffic signals system along West Ave and Belden Ave from the intersection of Butler St to the intersection of Burnell Blvd in Norwalk.	\$1,953,000	FHWA	+	+	0	+	Yes	Yes	Benefit

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SWRPA ID	Project #	Route	Town	Project Name	Description	Total Amount of Funding FY10-FY13	Funding Source	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
04-007	0102-0335	Various	Norwalk	Norwalk American Recovery and reinvestment Act	Pavement preservation project for Dr. Martin Luther King Jr. Drive, Belden Hill Road, and Butler Street/Harbor Avenue in Norwalk.	\$2,282,000	FHWA	0	0	0	+	Yes	Yes	Neutral
04-007.1	0102-0341	Various	Norwalk	Pavement Preservation: Ponus Ave & Seaview Ave	Pavement preservation and improvements for Ponus Avenue and Seaview Avenue.	\$976,000	FHWA	0	0	0	+	Yes	Yes	Neutral
04-009	0102-CXX1	Various	Norwalk	SONO Parking Guidance System	Provision of a parking guidance system that alerts drivers of available parking spaces via message signs and Smartphone/internet advisories.	\$1,250,000	FHWA	+	+	0	0	Yes	Yes	Benefit
04-010	0102-SXX1	Various	Various	Coastal Corridor Bus Study	To develop recommendations to improve and expand public bus service along Connecticut's Coastal Corridor.	\$300,000	FTA	0	0	0	0	Yes	Yes	Neutral
05-004	0135-0300	SR-493	Stamford	Reconstruct Washington Blvd	Installation of a raised landscaped low height median, with various curbing and sidewalk modifications, signal control changes, and drainage modification at Division Street in Stamford.	\$1,750,000	FHWA	0	0	0	+	Yes	Yes	Neutral
05-005	0135-0310	West Main St	Stamford	West main Street Bridge Replacement	Replacement of Bridge #2212 at West Main Street over the Mill River in Stamford.	\$1,370,000	FHWA	0	0	0	+	Yes	Yes	Neutral
05-006	0135-0310	SUT	Stamford	Stamford Urbantransitway (SUT) Multimodal Facility	Facility construction to provide direct connection to the Stamford Transportation Center, including additional transportation lanes, traffic signals, and landscaping.	\$37,531,000	FTA & FHWA	+	+	+	+	Yes	Yes	Benefit
05-007	0135-XXXX	Various	Stamford	Parking Garage Guidance System (PGGS)	Install a parking guidance system in garage structures in order to facilitate convenient parking by indicating parking levels space availability.	\$1,250,000	FHWA	+	+	0	0	Yes	Yes	Benefit
10-001	0412-XXXX	Norwalk TD	Norwalk	Norwalk Transit District – ADA Operating Norwalk	N/A	\$2,424,000	FTA	0	+	+	+	N/A	N/A	Benefit
10-002	0412-XXXX	Norwalk TD	Stamford	Norwalk Transit District – ADA Operating Norwalk	N/A	\$7,472,000	FTA	0	+	+	+	N/A	N/A	Benefit
10-004	0412-XXXX	Norwalk TD	Norwalk	Norwalk Transit District – Fixed Routes	N/A	\$14,228,000	FTA	+	+	+	0	N/A	N/A	Benefit

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SWRPA ID	Project #	Route	Town	Project Name	Description	Total Amount of Funding FY10-FY13	Funding Source	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
10-006	0412-T073	Norwalk TD	Norwalk	Admin Capital & Service Replacement	N/A	\$746,000	FTA	+	+	+	0	N/A	N/A	Benefit
10-007	0412-XXXX	Norwalk TD	Norwalk	NTD – Facility State of Good Repair	N/A	\$400,000	FTA	0	0	+	0	N/A	N/A	Neutral
10-008	0412-XXXX	Norwalk TD	Norwalk	NTD – Purchase AVL/MDT	N/A	\$2,001,000	FTA	0	0	+	0	N/A	N/A	Neutral
10-009	0412-XXXX	Norwalk TD	Norwalk	NTD – Replace Paratransit Vehicles	N/A	\$1,840,000	FTA	0	+	+	0	N/A	N/A	Benefit
10-010	0412-XXXX	Norwalk TD	Norwalk	NTD – Replace Floor on 12 30-FT Buses	N/A	\$216,000	FTA	+	+	+	+	N/A	N/A	Benefit
10-011	0412-XXXX	Norwalk TD	Norwalk	NTD – Intermodal Transportation Center	N/A	\$1,782,000	FTA	+	+	+	+	Yes	Yes	Benefit
10-012	0412-XXXX	Norwalk TD	Norwalk	NTD – Replace 14 30-FT & 2 35-FT Buses	N/A	\$8,184,000	FTA	+	+	+	+	N/A	N/A	Benefit
10-013	0412-XXXX	Norwalk TD	Norwalk	NTD – Replace 2 40-FT Buses	N/A	\$1,000,000	FTA	+	+	+	+	N/A	N/A	Benefit
10-014	0412-XXX6	Norwalk TD/Norwalk	Various	SONO Rail Parking Critical Systems replacement	N/A	\$100,000	FTA	0	0	0	0	Yes	Yes	Neutral
11-001	ENH-TXXX	Bridgeport/Stamford	Bridgeport/Stamford	Enhancement Projects for Bridgeport/Stamford	Review of projects in the Bridgeport-Stamford Urbanized Area.	\$1,563,000	FTA	+	+	0	+	N/A	N/A	Benefit
12-002	0301-0040	NHL-ML	Westport/Stamford	Rehab & Construct New Moveable Bridge (W/C1A)	Construct and rehabilitate the Walk and Saga moveable bridges in Norwalk and Westport, respectively.	\$137,138,000	FTA	0	0	0	0	Yes	Yes	Neutral
12-004	0302-0010	NHL-ML	Various	NHL – Retaining Walls & Bulk Track	N/A	\$4,500,000	FTA	0	0	0	0	Yes	Yes	Neutral
12-006	0170-TXXX	NHL-ML	Statewide	Transit Capital Planning	Facilitate CDOT staff in maintaining a fiscally constrained 20-year Transit Capital Project Management Plan which includes both bus and rail projects.	\$2,000,000	FTA	+	0	+	+	N/A	N/A	Benefit
12-008	0301-XXXX	NHL-ML	Various	New Haven Line Track Program	N/A	\$40,000,000	FTA	0	0	0	0	N/A	N/A	Neutral
12-009	0301-T119	NHL-ML	Various	NHL Catenary Replacement Walk-CP248, Section C1A	Replace the existing catenary system to allow for maximum speed allowed by track geometry and other physical constraints.	\$46,500,000	FTA	0	0	0	0	Yes	Yes	Neutral

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SWRPA ID	Project #	Route	Town	Project Name	Description	Total Amount of Funding FY10-FY13	Funding Source	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
12-014	0300-0149	NHL System-wide	Various	New Haven Line – Positive Train Control	Installation of Positive Train Control systems to monitor train activity, prevent collisions, control headway spacing, convey and enforce speed restrictions, advice of hazards and inoperable grade crossings.	\$12,000,000	FTA	0	0	0	0	N/A	N/A	Neutral
13-003	0173-0399	Various	District 3	Installation of Epoxy Pavement Markings	Installation of epoxy pavement markings (crosswalks & intersections) in District 3.	\$552,000	FHWA	0	0	0	0	N/A	N/A	Neutral
13-004	0173-0410	CT-15	District 3	Public Involvement for the Merritt Parkway Multi-Purpose Trail	Project will provide additional funding for public involvement activities related to the Merritt Parkway Multipurpose Trail.	\$50,000	FHWA	0	+	0	+	N/A	N/A	Benefit
14-001	0401-XXX	CT Transit	Stamford	CT Transit – Stamford	N/A	N/A	FTA	+	+	+	+	N/A	N/A	Benefit
14-002	0400-027	CT Transit	Various	CT Transit – Admin Capital & Service Replacement	N/A	\$4,317,000	FTA	+	+	+	+	N/A	N/A	Benefit
14-003	0400-XXXX	CT Transit	Various	CT Transit – Bus Replacement	N/A	\$45,032,000	FTA	+	+	+	+	N/A	N/A	Benefit
14-004	0400-XXXX	CT Transit	Various	CT Transit – Systemwide IT Upgrade	N/A	\$492,000	FTA	+	+	+	+	N/A	N/A	Benefit
14-005	0400-XXXX	CT Transit	Various	CT Transit – Critical System Replacement	N/A	\$50,000	FTA	+	+	+	+	N/A	N/A	Benefit
14-006	0SXT-0110	Various Bus	Statewide	Purchase Accessible Vans/Buses	N/A	\$9,026,000	FTA	+	+	+	0	N/A	N/A	Benefit
14-007	0400-XXXX	CT Transit	HTF, Stamford	Discretionary Grant – SGR CT Transit Capital Assets Hartford & Stamford Divisions	The Grant would Fund the replacement/renovation of capital assets for CT Transit Hartford and Stamford operations.	\$7,752	FHWA	+	+	+	+	N/A	N/A	Benefit

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Appendix C

**L RTP 2011-2040 Projects Located within Communities of Concern
with Results of Benefits and Burdens Evaluation**

SWRPA ID	Project #	Route	Town	Project Name	Year	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
4	0102-0331	I-95	Norwalk	Exit 16 Improvements	2030	+	+	0	+	Yes	Yes	Benefit
5	0135-TXXX	N/A	Stamford	Urban Transitway	2015	+	+	+	+	Yes	Yes	Benefit
7	0301-0047	NHL	Stamford	STC Parking Garage Replacement	2025	+	0	+	0	Yes	Yes	Benefit
8	0301-0040	NHL	Norwalk	Design, Rehab Walk Bridge	2030	0	0	0	0	Yes	Yes	Neutral
10	N/A	NTD	NTD	7-Link Route Study	2015	0	0	+	0	Yes	Yes	Neutral
11	N/A	NHL	Stamford	STC Master Plan	2020	0	0	+	+	Yes	Yes	Benefit
17	N/A	N/A	Stamford	Rail Bridge Priority Program	2040	+	0	0	0	Yes	Yes	Neutral
18	0102-0325	US-1	Norwalk	US-1 Widening, 4 Lane Cross-Section	2020	+	+	0	+	Yes	Yes	Benefit
19	0102-0278	I-95	Norwalk	Exit 14-15 Operational Lanes/ Revise Interchange	2015	+	+	0	0	Yes	Yes	Benefit
20	0102-0295	I-95	Norwalk/ Westport	Exit 16-17 Median Barrier and Safety Improvements	2030	0	+	0	0	Yes	Yes	Neutral
21	0135-0309	I-95	Darien/ Stamford	I-95 Bridge over MNR and Exit 8-10 Operational Lanes	2040	+	+	0	0	Yes	No	Benefit
26	N/A	NHL-DB	Norwalk/ Wilton	Danbury Branch Improvements	2030	+	+	+	0	Yes	Yes	Benefit
28	0158-0193	US-1	Norwalk/ Westport	US-1 Improvements	2025	+	+	0	+	Yes	Yes	Benefit
31	0102-0297	N/A	Norwalk	East Avenue RR Bridge and Roadway Improvements	2025	+	+	+	+	Yes	Yes	Benefit
35	N/A	N/A	Norwalk	South Norwalk Intermodal Facility Design/Construction	2040	+	+	+	+	Yes	Yes	Benefit

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SWRPA ID	Project #	Route	Town	Project Name	Year	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
36	N/A	NHL-NCB	Stamford/ New Canaan	New Canaan Branch Improvements	2030	+	+	+	0	Yes	No	Benefit
38	N/A	NHL	Various	Catenary Upgrades	2030	0	0	0	0	Yes	Yes	Neutral
41	N/A	N/A	Norwalk/ Wilton	Norwalk River Valley Trail	2040	0	0	0	+	Yes	Yes	Neutral
43	N/A	N/A	Stamford	Ferryboat, Terminal, and Parking Facility	2025	0	0	+	0	Yes	Yes	Neutral
44	N/A	N/A	Norwalk/ Stamford	Ferry to New York	2030	0	0	+	0	Yes	Yes	Neutral
45	N/A	N/A	Norwalk/ Stamford	Maintenance Dredging of Harbors	2020	0	0	0	0	Yes	Yes	Neutral
46	N/A	N/A	Norwalk/ Stamford	Port Infrastructure Improvements	2040	0	0	0	0	Yes	Yes	Neutral
48	N/A	US-1	Norwalk/ Stamford	US-1 Enhanced Bus Service	2030	+	+	+	0	Yes	Yes	Benefit
75	0102-H001	N/A	Norwalk	Washington Street Reconstruction	2020	0	0	0	+	Yes	Yes	Neutral
77	N/A	N/A	Norwalk	Norwalk Harbor Loop Trail	2040	0	0	0	+	Yes	Yes	Neutral
79	N/A	NHL	Stamford	Atlantic Street Widening and Streetscape	2016	+	0	0	+	Yes	Yes	Benefit
80	N/A	N/A	Stamford	Greenwich Ave/W Main St Reconstruction	N/A	0	0	0	+	Yes	Yes	Neutral
86	N/A	N/A	Stamford	Cove Road Reconstruct Roadway	2025	0	0	0	+	Yes	Yes	Neutral
89	N/A	N/A	Stamford	Main St & Summer St Intersection Improvements	2017	0	0	0	+	Yes	Yes	Neutral
91	N/A	N/A	Stamford	Stillwater Road Roadway Improvements	2040	0	0	0	+	Yes	No	Neutral
92	N/A	N/A	Stamford	Toms Road Roadway Improvements	2025	0	0	0	+	Yes	No	Neutral
94	N/A	N/A	Stamford	Hope Street Improvements & Reconstruction	2040	0	0	0	+	Yes	No	Neutral
96	N/A	N/A	Stamford	Cold Spring Road Improvements & Reconstruction	2040	0	0	0	+	Yes	No	Neutral
101	N/A	N/A	Stamford	Magee Avenue Sidewalk/ On-Street Bicycle Facility	2020	0	0	0	+	Yes	Yes	Neutral

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SWRPA ID	Project #	Route	Town	Project Name	Year	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
102	0135-0271	N/A	Stamford	Mill River Pedestrian/ Bicycle Route	2020	0	0	0	+	Yes	Yes	Neutral
107	N/A	N/A	Stamford	Harbor Area Pedestrian/ Bicycle Trail	2016	0	0	0	+	Yes	Yes	Neutral
111	N/A	N/A	Stamford	Main Street Streetscape	2011	0	0	0	+	Yes	Yes	Neutral
112	N/A	N/A	Stamford	Richmond Hill Avenue Streetscape	2017	0	0	0	+	Yes	Yes	Neutral
114	N/A	NHL	Stamford	STC Bicycle Lockers	2016	0	0	+	+	Yes	Yes	Benefit
115	N/A	N/A	Stamford	Bell St & Atlantic St Area Pedestrian Improvements	2021	0	0	+	+	Yes	Yes	Neutral
117	0135-0300	CT-493	Stamford	Route 493 (Washington Blvd) Reconstruct Median	2020	0	0	+	+	Yes	Yes	Neutral
118	N/A	US-1	Stamford	US-1 (Tresser Blvd) Reconstruct Median	2020	0	0	+	+	Yes	Yes	Neutral
122	N/A	NHL-NCB	Stamford	Glenbrook Train Station Enhancements	2015	+	0	+	0	Yes	No	Benefit
124	N/A	N/A	Stamford	Stamford Streetcar	2040	+	+	+	0	Yes	Yes	Benefit
126	N/A	NHL	Stamford	STC Parking Study	2015	0	0	+	0	Yes	Yes	Neutral
127	N/A	NHL	Stamford	Stamford Transportation Center Improvements	2025	+	0	+	+	Yes	Yes	Benefit
130	N/A	NHL-DB	Norwalk	Wall Street Rail Station Study	2020	+	0	+	0	Yes	Yes	Benefit
131	N/A	N/A	Norwalk	West Ave Bus Service Improvements	2040	+	0	+	0	Yes	Yes	Benefit
132	N/A	N/A	Norwalk	TOD at South Norwalk, East Norwalk Rail Stations	2040	+	+	+	+	Yes	Yes	Benefit
136	N/A	N/A	Norwalk	Connectivity Study Improvements	2040	0	0	+	+	Yes	Yes	Benefit
146	N/A	US-1	Greenwich/ Stamford	US-1 Greenwich-Stamford Study Improvements	2040	+	+	0	+	Yes	Yes	Benefit
147	N/A	N/A	Greenwich	Downtown Shuttle Pilot Program	2025	0	0	+	0	Yes	No	Neutral
151	N/A	N/A	Greenwich	Byram Master Plan – Streetscapes/Sidewalk Improvements	2015	0	0	0	+	Yes	No	Neutral
152	N/A	N/A	Greenwich	Greenwich Town Center Streetscape Implementation	2015	0	0	0	+	Yes	Yes	Neutral
160	N/A	N/A	Norwalk	Wall Street Rail Station	2040	+	0	+	0	Yes	Yes	Benefit

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SWRPA ID	Project #	Route	Town	Project Name	Year	Congestion	Air Quality	Access to Transit	Bike/Ped	Located in a Tract with at least 1 Linguistically Isolated Household	Located in a Tract >10% Linguistic Isolation	Overall Benefit or Burden
161	N/A	N/A	Stamford	Parking Guidance System	2020	+	+	0	0	Yes	Yes	Benefit
162	0102-0329	N/A	Norwalk	Strawberry Hill SRTS	2020	0	0	+	+	Yes	Yes	Benefit
167	0135-0310	N/A	Stamford	West Main Street Bridge Replacement	2015	0	0	0	+	Yes	Yes	Neutral
170	0135-0291	US-1	Stamford	US-1 Bridge over Rippowam (Mill) River Rehabilitation	2014	0	0	0	+	Yes	Yes	Neutral
173	N/A	NTD	NTD	Gasoline Fueling System	2030	0	0	0	0	Yes	Yes	Neutral
174	N/A	NTD	NTD	Hybrid and/or Natural Gas Fueling System	2030	0	+	0	0	Yes	Yes	Neutral
175	N/A	NTD	NTD	New Bus Storage Space	2030	0	0	+	0	Yes	Yes	Neutral
176	0412-XXXX	NTD	NTD	NTD Facility State of Good Repair	2040	0	0	+	0	N/A	N/A	Neutral
178	N/A	N/A	Stamford	Pacific Street Roadway Improvements	2013	+	0	0	+	Yes	Yes	Benefit
179	N/A	N/A	Stamford	Canal Street Roadway Improvements	2013	+	0	0	+	Yes	Yes	Benefit
184	0102-0334	N/A	Norwalk	Traffic Signal Upgrade along West Ave & Belden Ave	2015	+	+	0	+	Yes	Yes	Benefit