WESTERN CONNECTICUT REGIONAL PLAN OF CONSERVATION & DEVELOPMENT

Highlight of Major Findings
July 17, 2019

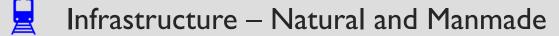


Working Document *not for public disclosure*

OVERVIEW OF THE REGIONAL PLAN







Housing

Natural Resources

Economic Development

Community Character

Timetable



HOW IS THE REGIONAL PLAN USED?



HOW IS THE REGIONAL PLAN USED?

• Evaluate **regional management** of shared infrastructure (CGS 4-124s)

 Review Water System Plans for consistency with Regional Plan (CGS-25-33h)

- Advise on Responsible Growth strategies (CGS 8-35a)
- Set development priorities (CGS 8-35a)
- Assist with municipal land use regulation (CGS 8-35c)
- Address intermunicipal boundary issues (CGS 8-3b)
- Assess Water supply conditions and problems (CGS 25-33g)
- Review projects of regional significance (CGS 4-124u)

Technical Assistance

Consistency Reviews

Regional Impacts

Coordinate Land & Transportation Issues

Responsible Growth Strategies



HOW IS THE REGIONAL PLAN USED? (CONTINUED)

Technical Assistance

Meet mandate for land use/transportation coordination (23 USC 134(h)(1))

Consistency Reviews

- Ensure State C&D Plan considers regional land use issues (CGS 8-35)
- Address regional input to municipal plans (CGS 22a 102d)
- Address regional input to state plan (CGS 16a-28)
- Review applications to operate foreign trade zones (CGS 7-136e)
- Assist private investment studies and municipal bond sales
- Market the region as a coordinated jurisdiction
- Coordinate water and sewer utilities between towns

Regional Impacts

Coordinate Land & Transportation Issues

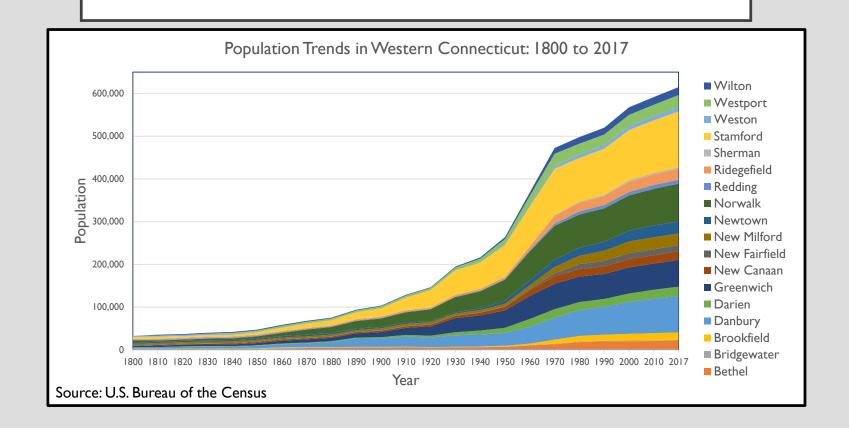
Responsible Growth Strategies



DEMOGRAPHIC AND ZONING TRENDS

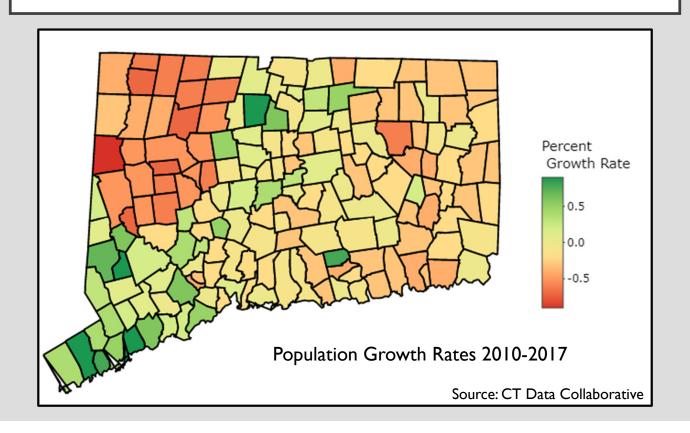


DEMOGRAPHIC TRENDS





DEMOGRAPHIC TRENDS





SCHOOL ENROLLMENT TRENDS - LESS CHILDREN IN SUBURBS

Public School Enrollment Trends in Western					
Connecticut: 2010-2017					
	Change in				
	Enrollment	Enrollment	Enrollment		
Municipality	2010	2017	2010 to 2017		
Bethel	3,568	3,632	64		
Bridgewater	521	327	-194		
Brookfield	3,234	3,626	392		
Danbury	12,008	13,056	1,048		
Darien	5,457	5,322	-135		
Greenwich	10,392	9,390	-1,003		
New Canaan	4,741	4,774	33		
New Fairfield	3,450	2,911	-539		
New Milford	5,708	4,393	-1,315		
Newtown	6,226	6,161	-65		
Norwalk	12,499	13,183	684		
Redding	2,192	1,909	-283		
Ridgefield	6,072	6,317	246		
Sherman	1,080	858	-222		
Stamford	15,866	18,066	2,200		
Weston	3,198	2,857	-341		
Westport	6,341	6,134	-207		
Wilton	4,607	4,614	7		
Grand Total	107,160	107,529	369		

School age (I to 19 years old) Projections for								
Municipality	Western Connecticut: 2015-2040 2015 2020 2025 2030 2035 2040							
Bethel	3,304	3,034	2,786	2,591	2,523	2,444		
Bridgewater	243	228	203	208	183	181		
Brookfield	3,044	2,753	2,600	2,481	2,540	2,633		
Danbury	15,038	15,911	16,212	16,511	17,096	17,295		
Darien	5,494	4,910	4,392	4,318	4,580	5,408		
Greenwich	12,778	11,645	11,498	11,233	10,542	10,304		
New Canaan	4,760	4,144	3,799	3,893	3,997	4,621		
New Fairfield	2,816	2,306	1,861	1,623	1,502	1,374		
New Milford	4,999	4,622	4,206	3,860	3,784	3,683		
Newtown	5,906	5,313	4,640	4,545	4,903	5,683		
Norwalk	15,143	15,332	15,471	15,376	15,845	16,191		
Redding	1,729	1,667	1,547	1,536	1,648	1,838		
Ridgefield	5,437	4,686	4,135	3,942	4,071	4,646		
Sherman	566	472	373	325	304	275		
Stamford	22,224	22,378	23,403	23,460	23,349	22,652		
Weston	2,272	1,845	1,641	1,535	1,557	1,704		
Westport	5,831	5,095	4,581	4,481	4,388	4,945		
Wilton	4,038	3,633	3,230	2,988	2,926	3,375		
Grand Total	115,622	109,974	106,578	104,906	105,738	109,252		



SENIOR POPULATION

By 2040, nearly half of all municipalities are expected to have seniors exceeding 20% of their population.

Estimated Seni	Projected Trend					
***		tern Connecticut: 2017 Total Senior Percent of				
.	Total	65 years &	Population	Population		
Municipality	Population	Older	2017	2040		
Bethel	19,526	2,870	15%	21%		
Bridgewater	1,681	488	29%	33%		
Brookfield	17,064	2,821	17%	20%		
Danbury	84,573	11,348	13%	11%		
Darien	21,742	2,606	12%	11%		
Greenwich	62,782	10,596	17%	19%		
New Canaan	20,357	3,172	16%	13%		
New Fairfield	14,091	2,310	16%	24%		
New Milford	27,380	4,043	15%	22%		
Newtown	28,030	4,375	16%	25%		
Norwalk	88,537	12,557	14%	13%		
Redding	9,274	1,776	19%	23%		
Ridgefield	25,206	4,072	16%	17%		
Sherman	3,654	766	21%	29%		
Stamford	128,851	17,805	14%	13%		
Weston	10,369	1,333	13%	18%		
Westport	27,777	4,548	16%	18%		
Wilton	18,659	2,877	15%	15%		
Total	609,553	90,363	15%	15%		

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates and CT Data Collaborative Population Projections.



ZONING TRENDS

381 zoning districts have been established in Western Connecticut

- 43% of all zones are dedicated to **residential** development
- 36% of all zones are dedicated to a range of commercial developments
- 7% of all zones are for **natural resource protection** (watersheds, historic districts, aquifer protection, coastal zones, and floodplains)
- 6% of all zones are dedicated to industrial development
- 2% of all zones are for **mixed use** development



DEVELOPED AND DEVELOPABLE LAND - PART I ALLOCATION OF LAND BY ZONES

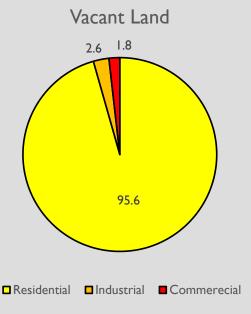
Development is Driven by Zoning Classifications:

- 90% of the region's land is zoned for **residential** development (321,418 acres)
 - 3% is zoned for multi-family development including elderly housing (11,136 acres)
- 3% is zoned for **commercial** development (10,358 acres)
- 3% is zoned for **industrial** development (10,135 acres)
- 4% is zoned for other purposes (educational parks, parkland, conservation zones, river design zones, hospital zones, etc.)



DEVELOPED AND DEVELOPABLE LAND – PART 2 ZONING STATUS OF VACANT LAND

- 95.6% of the region's vacant land is zoned **residential** (54,431 acres)
- 2.6 % of the region's vacant land is zoned industrial (1,508 acres)
- 1.8% of the region's vacant land is zoned commercial (1,014 acres)





DEVELOPED AND DEVELOPABLE LAND —PART 3 LAND WITH WATER AND SEWER SERVICE

- 117,190 acres of the region is served by public water (33% of the land)
- 49,114 acres of the region is served by sewage treatment plants (14% of the land)
- 6,644 acres of the region is vacant and zoned residential and falls within a short distance of public water and/or sewer service pipe-lines (2% of the land)



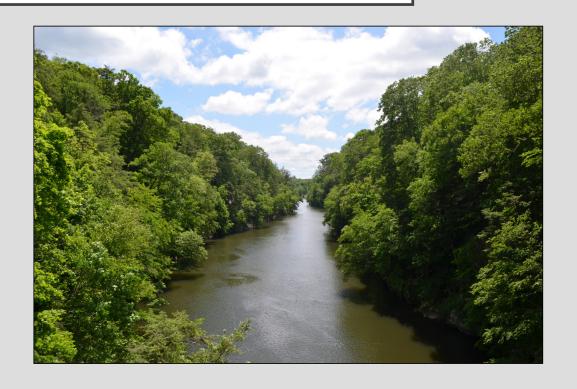
INFRASTRUCTURE NATURAL & MANMADE



NATURAL SYSTEM INFRASTRUCTURE PRIORITIES - I

Protecting Riparian Corridors is a high priority:

- They limit water and thermal pollution of watercourses
- Create migratory pathways for all kinds of species
- Reinforce wetland and watercourse regulations
- Support CTDEEP's Greenway program
- Protects tree canopies & reduces impervious cover on "critical edge" habitat





NATURAL SYSTEM INFRASTRUCTURE PRIORITIES - 2

Revisit Floodplain Management Principles

- Revise I 00 Year Floodplain boundaries to reflect climate change reality
- Flood Insurance Rate Maps are inconsistent with hydrologic trends
 - \$172 million in flood insurance losses in Western CT in last forty years
- Proactive assessment of anticipated flooding levels following current trends
 - FEMA's retrospective methodology for determining the 100 year flood is obsolete
 - We need to have our eye on the ball not where it is now or in the past but where it will be in 30 years from now.



NATURAL SYSTEM INFRASTRUCTURE PRIORITIES - 3

Paving over Natural Systems has Stormwater Consequences

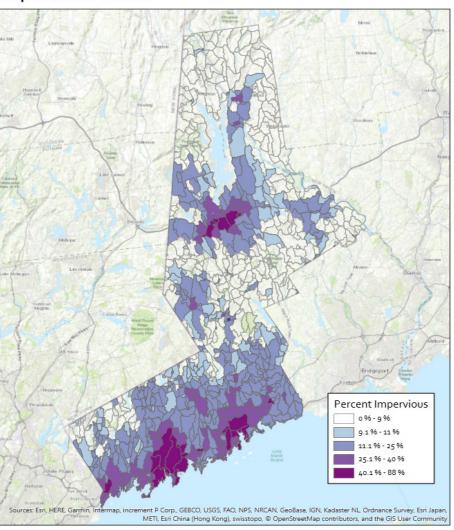
- 46% of region's land exceeds 11% impervious cover threshold (165,758 acres)
 - This threshold, when exceeded, aggravates water pollution
 - Protecting forest canopies along watercourses is a countermeasure
- Only 12% of all land above the 11% threshold is regulated
 - Directly Connected Impervious Cover Areas (DCIA) represents 19,650 acres
- Adopting impervious cover standards in zoning is a key action item



IMPERVIOUS COVER – A STATUS REPORT

Municipality	% of town at 11%+ Impervious cover	Municipality	% of town at II%+ Impervious cover
Darien	100%	Bethel	53%
Westport	99%	Weston	48%
Norwalk	98%	Ridgefield	47%
Stamford	84%	Newtown	24%
New Canaan	74%	New Fairfield	24%
Danbury	65%	New Milford	15%
Greenwich	64%	Redding	4%
Brookfield	54%	Sherman	0%
Wilton	54%	Bridgewater	0%

Impervious Cover



Impervious cover percentage per basin within WestCOG









URBAN INFRASTRUCTURE – TELECOMMUNICATIONS DEMOGRAPHIC FACTORS

- Age, income & education profoundly influence acceptance of internet services
- Limits opportunities for improved retail services and other social networking options
- 78% of those 65 and older subscribed to a broadband service
- 29% of households 25 years or over with less than a high school education did not have broadband internet service.



URBAN INFRASTRUCTURE – TELECOMMUNICATIONS THE HARDWARE

- Influencing Connecticut Siting Council and Federal Communication Decisions requires a delicate balance of diploma, reason and good planning
- Nearly three hundred radio, television & cell towers exist in Western CT
 - Heights range from 24 feet (Westport) to 499-feet (Brookfield)
- Municipal zoning regulations are often inconsistent with current FCC regulations
 - Recent FCC "shot clock" regulations triggers a review of zoning approval processes (October 2018)



URBAN INFRASTRUCTURE LOCAL ROADWAYS & BRIDGES AN INVESTMENT RESPONSIBILITY

- Approximately 2,640 miles of locally-owned roads
- 740 locally-owned bridges



URBAN INFRASTRUCTURE LOCAL ROADWAYS & BRIDGES AN INVESTMENT RESPONSIBILITY

Road Infrastructure					Total Replacement
Feature	Unit	Cost/Unit	Unit Area	Total Units	Cost
Intersection					
Replacement	SY	\$165.98	400	17,710	\$1,175,802,320
Culvert					
Replacement	SF	\$235.00	12	111,124	\$313,369,680
Bridges					
Reconstruction	SF	\$545.00	16,785	740	\$6,769,390,500
Road					
Reconstruction	SY	\$165.98	27,878,400	46,433,024	\$7,706,953,324
Traffic Signal					
Replacement	number	\$200,000.00	1	816	\$163,200,000
Total					\$16,128,715,824

Source: WestCOG calculations based on CTDOT Highway Transportation Asset Mgt Plan, p. 5-8



AVOIDING URBAN INFRASTRUCTURE – SEWER AVOIDANCE AND CONTROL OF UNBUILDABLE LAND

Buildable Lot Criteria	Municipalities with Buildable Lot Criteria			
Wetlands	15			
Watercourses	15			
Easements	9			
Steep Slopes	8			
Floodplains	7			
Narrow Strips of Land	2			
Source: Western Connecticut Council of Governments, April, 2019				



SEWER INFRASTRUCTURE – LIMITING FACTOR TO GROWTH PART I

Water Pollution Control Facilities in Western CT (WPCF)	Design Flow MGD	Actual Flow (MGD)	Available Capacity MGD	Worst Case Population Serviceable by Available Capacity
Total for 14 WPCFs	77.647	48.415	29.232	389,760



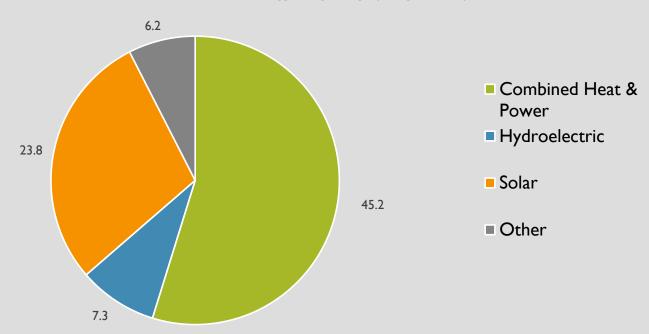
SEWER INFRASTRUCTURE – LIMITING FACTOR TO GROWTH PART 2

Municipality	Land Area with Sewer Service (%)	% of 2010 Population Served by Sewers	Municipality	Land Area with Sewer Service (%)	% of 2010 Population Served by Sewers
Bethel	22.5%	77%	Newtown	3.7%	16%
Bridgewater	0.0%	0%	Norwalk	56.8%	93%
Brookfield	6.8%	34%	Redding	0.3%	11%
Danbury	24.9%	84%	Ridgefield	3.9%	27%
Darien	53.7%	95%	Sherman	0.0%	0%
Greenwich	24.7%	82%	Stamford	37.5%	89%
New Canaan	8.5%	49%	Weston	0.0%	1%
New Fairfield	0.0%	0%	Westport	24.1%	69%
New Milford	4.1%	40%	Wilton	4.3%	25%



RENEWABLE ENERGY INFRASTRUCTURE - NAME PLATE CAPACITY IN MEGAWATTS

Renewable Energy Capacity (Megawatts)





RENEWABLE ENERGY INFRASTRUCTURE





- Solar, hydroelectric and other renewable energy sources account for the equivalent of less than 13% of Region's energy consumption
- State Class I renewable energy goal = 40% by 2030



SOLAR ENERGY INFRASTRUCTURE – A GROWING INDUSTRY

Land Use Controls play a key role in future of solar energy

- Two basic approaches are emerging:
 - 1. Solar integrated into new or existing buildings (distributed generation)
 - 2. Solar energy farms on existing farmland or in lieu of forest
- Planning and zoning commission can influence solar adoption by:
 - Reduce barriers to its adoption; encourage solar orientation and access
 - Provide incentives for energy efficient; passive solar factors and photovoltaics
 - Pubic Act 78-314 established the legal basis for encouraging solar energy use



INFRASTRUCTURE NATURAL & MANMADE

Key Policy Recommendations:

Stormwater Goals (4 goals)

Minimize the installation of impervious surfaces in new developments

Redefine Floodplain Management (4 goals)

Set boundaries of 100-year floodplain based on post-2001 meteorological data

Riparian Corridor (3 goals)

Encourage adoption of streambelt zones to protect riparian values of major watercourses

Transportation Infrastructure (2 goals)

Develop transportation asset management plans for key transportation assets

Sewer Avoidance (3 goals)

Employ sewer avoidance strategies where failing septic systems threaten public water supplies

Renewable Energy Infrastructure (5 goals)

Adopt zoning regulations to facilitate installation of renewable energy

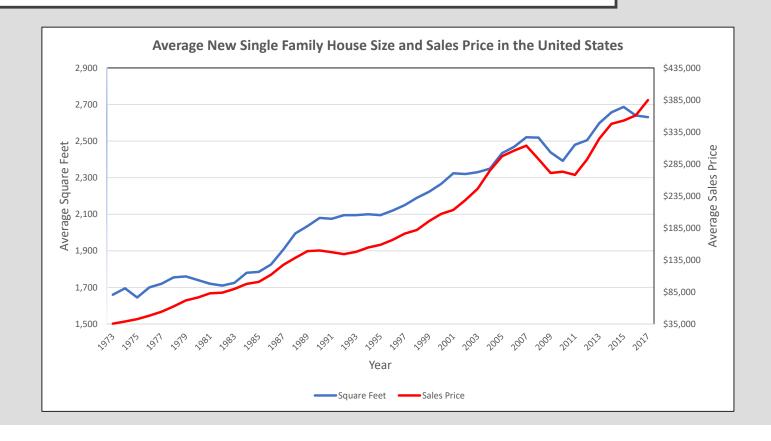


HOUSING



HOUSING – AFFORDABILITY CHALLENGE BUILDING SIZE

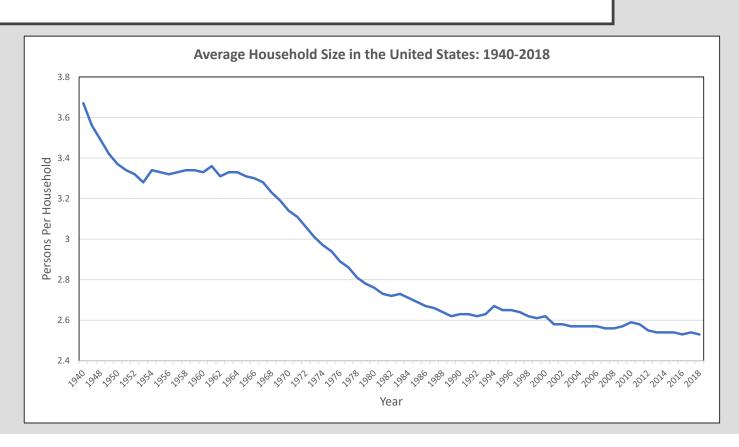
Increasing cost of single family house parallels its increasing size in the United States.





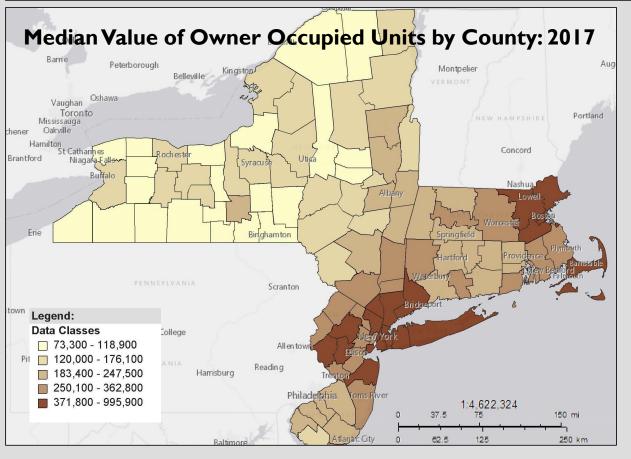
HOUSING – AFFORDABILITY CHALLENGE HOUSEHOLD SIZE

Decline in average household size in United States creates enormous amount of underutilized space.





HOUSING - AFFORDABILITY CHALLENGE



Housing costs in Fairfield County are similar to counties in the Boston & New York Metro areas.

Source: U.S. Bureau of the Census, 2013-2017 American Community Survey 5-Year Estimates



HOUSING AFFORDABILITY STRATEGIES

- Promote accessory apartments with fewer regulatory constraints
- Allow two family housing consistent with public health requirements
- Allow letting of rooms with limits on the number of occupants
- Support multi-family housing along transit corridors & where sewer & water service exists



HOUSING

Key Policy Recommendations:

Affordable Housing (3 goals)

Provide flexibility in development of accessory apartments & 2 family DUs

Transit Oriented Housing (2 goals)

Encourage a mix of housing and commerce in the village districts

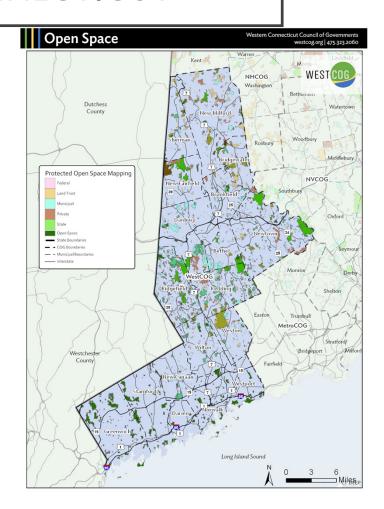


NATURAL RESOURCES



PROTECTED OPEN SPACE IN WESTERN CONNECTICUT

- An estimated 59,070 acres of land in Western Connecticut has been deeded to Open space.
- To meet its share of the goal, the region needs 8,404 acres by the year 2023.
 - Statewide goal = 21% of all land deeded as open space by 2023.
 - Region's share of goal = 4,202 acres
 - State's share of goal = 4,202 acres





NATURAL RESOURCES

Key Policy Recommendations:

- Water Resources (8 goals)
 - Adopt aquifer protection regulations for potential drinking water aquifers
- Open Space, Farm & Forests (9 goals)
 - Identify and protect open space to meet State's Green Plan

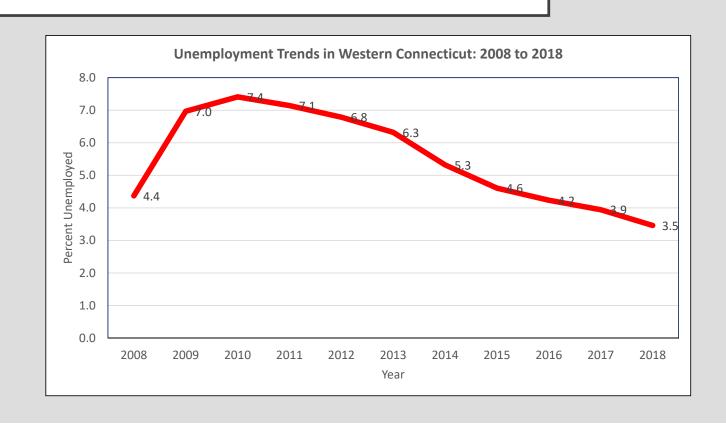


ECONOMIC DEVELOPMENT



ECONOMIC DEVELOPMENT

Unemployment is at an all time low in Western
Connecticut compared to the years following the great recession of 2008





LABOR FORCE TRENDS – GROWTH IN PAST DECADE FOCUSED IN CITIES

Municipality	Labor Force 2008	Labor Force 2018	Municipality	Labor Force 2008	Labor Force 2018
Bethel	10,780	10,881	Newtown	14,328	14,168
Bridgewater	1,031	836	Norwalk	48,442	50,799
Brookfield	9,277	9,336	Redding	4,688	4,444
Danbury	44,801	47,230	Ridgefield	11,808	11,862
Darien	9,188	8,679	Sherman	2,149	1,867
Greenwich	30,504	28,879	Stamford	67,015	70,883
New Canaan	9,005	8,396	Weston	4,929	4,378
New Fairfield	7,564	7,131	Westport	12,837	12,710
New Milford	16,316	15,184	Wilton	8,344	8,473



COMMUTING PATTERNS OF RESIDENTS: PERCENT STAYING IN COMMUNITY FOR EMPLOYMENT: 2015

Less than 30% of workers live in the town they work in

Source: U.S. Census Bureau, Longitudinal Employer-Household Dynamics, 2019



ECONOMIC DEVELOPMENT

Key Policy Recommendations:

Economic Development (5 goals)

Encourage development along transit corridors & with direct major highway access



COMMUNITY CHARACTER



COMMUNITY CHARACTER

Historic Preservation

• Over 5,000 historic buildings in 85 historic districts. One of the most extensive historic preservation programs in New England

Scenic Roads

81 locally designated scenic roads covering over 85 miles of rural vistas

Historic Villages

35 Village Districts exist in ten municipalities

Natural Resources

 Farm, forests and open space add New England character







Photo taken of Scenic Burying Ground Road, Greenwich, CT



COMMUNITY CHARACTER

Key Policy Recommendations:

Historic Preservation (4 goals)

Promote the tourism value of the region's unique cultural/historic resources



TIMELINE

- July 17th Planners' Lunch Presentation
- August 8th Open for comments from Planners
- August 29th Comments from Planners due
- September 5th Open for comments from COG
- September 19th COG Meeting Presentation
- October 3rd COG comments due
- October 17th COG Meeting Presentation (final draft shared)
- November Ist (tent.) Public Comment Period opens
- Week of November 4th (tent.) Two Public Hearings (locations TBD)

QUESTIONS? COMMENTS?

Any follow up questions should be addressed to Kristin:

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