

# Regional Comprehensive Plan 2010

for the

Southern NH Planning

Commission Region



# Regional Comprehensive Plan 2010

For the

Southern NH Planning

Commission Region



**Prepared by the**Southern New Hampshire Planning Commission



The preparation of this document has been financed in part by a grant from the State of New Hampshire Office of Energy and Planning through a Targeted Block Grant.

### **Acknowledgments**

The Southern New Hampshire Planning Commission would like to thank all the Municipalities and Committee Members that provided their valuable time and assistance as well as their role in guiding and bringing this plan to completion.

#### **OFFICERS**

Jean G. Methot, Chairman, Chester Barbara Griffin, Vice Chairman, Goffstown David Gomez, Treasurer, Derry Peter Capano, Secretary, Manchester

#### **BOARD OF COMMISSIONERS**

Charles M. Worster, Auburn William G. Herman, Auburn Ronald F. Poltak, Alternate, Auburn David J. Danielson, Bedford Michael Izbicki, Bedford Karen McGinley, Bedford Harold Newberry, Alternate, Bedford Gregory A. Camann, Alternate, Bedford William Duschatko, Alternate, Bedford Elizabeth Kruse, Candia William Stergios, Candia Elizabeth Richter, Chester Raymond Boyden, Alternate, Chester Frederick J. McGarry, Deerfield Jim Deely, Deerfield Anne Arsenault, Derry Brian Chirichiello, Derry Frank Bartkiewicz, Derry Darrell Park, Derry Henry C. Boyle, Goffstown Jo Ann Duffy, Goffstown Anthony Marts, Alternate, Goffstown

Richard G. Marshall, Hooksett Michel N. Jolin, Hooksett Robert Duhaime, Hooksett Sharon M. Carson, Londonderry Arthur E. Rugg, Londonderry Donald Moskowitz, Londonderry Deborah Lievens, Alternate, Londonderry Debra Paul, Alternate, Londonderry Daniel P. O'Neil, Manchester Raymond P. Clement, Manchester Elias "Skip" Ashooh, Manchester Robert MacKenzie, Alternate, Manchester Kevin McCue, Alternate, Manchester Harold "Bo" Strong, New Boston Brent Armstrong, New Boston Gretchen Gott, Raymond John Vetne, Raymond Ian B. McSweeney, Weare Terry Knowles, Weare

# REGIONAL COMPREHENSIVE PLAN ADVISORY COMMITTEE

Karen McGinley, Chair, Bedford Dave Danielson, Bedford Deborah Lievens, Londonderry Brian Rose, Goffstown Stoney Worster, Auburn Brent Armstrong, New Boston Elizabeth Robidoux, Derry Mike Izbicki, Bedford Jean Methot, Chester Mike Jolin, Hooksett Carl Foley, Goffstown David Gomez, Derry Carl Quiram, Goffstown Richard Marshall, Hooksett Jo Ann Duffy, Hooksett

#### **STAFF ROSTER**

David J. Preece, AICP, Executive Director
Jack Munn, AICP, Chief Planner
Jillian Harris, Planner
Mary Brundage, Associate Planner
Timothy White, AICP, Senior Transportation Planner
Julie Chen, Ph.D. ,Transportation Planner/Engineer
Matthew P. Caron, Transportation Planner
Amy Kizak, GIS Manager
Linda Burbank, GIS Specialist
James Kupfer, Intern

# **Table of Contents**

# Chapter Topic

# **Executive Summary**

I	Vision and Principles, Key Issues, Goals and Action	
	Recommendations	
	Sustainability Vision and Principles	1-1
	Key Issues, Goals and Policies and Action	1-2
	Recommendations	
	Overall Summary of Issues and Goals	1-11
	Goals, Targets, Actions	1-16
II	Existing Land Use	
	Introduction	2-1
	Public Survey	2-2
	Historical Perspective	2-3
	Land Use Changes, 2000-2009	2-5
	Land Use and Zoning	2-8
	Generalized Zoning Map Categories	2-16
III	Housing	
	Introduction	3-1
	Public Survey	3-2
	Existing Housing Conditions	3-3
	Future Housing Conditions	3-6
	Current Housing Needs and Concerns	3-9
	Conclusion	3-17
IV	<b>Economic Development</b>	
	Introduction	4-1
	Public Survey	4-3
	Existing Conditions	4-4
	Current Economic Development Strategies	4-16
	Regional Strengths and Weaknesses	4-19
	Future Growth Factors	4-26
	Future Employment Growth	4-27
	Conclusion	4-30

$\mathbf{V}$	Energy	
	Introduction	5-1
	Public Survey	5-3
	Existing Conditions	5-4
	Planning Roles	5-20
	New Trends	5-24
	Conclusion	5-32
VI	Agriculture	
	Introduction	6-1
	Public Survey	6-4
	Existing Conditions	6-5
	Future Conditions	6-11
	Existing Local, State and Federal Programs	6-14
	Recommendations	6-14
	Conclusion	6-16
VII	Natural Resources	
	Introduction	7-1
	Public Survey	7-2
	Regional Goals	7-2
	Rivers, Lakes, and Shorelines	7-3
	Hydric Soils and Wetlands	7-6
	Aquifers	7-8
	Floodplains	7-11
	Steep Slopes	7-11
	Forest Lands	7-14
	Wildlife Habitats	7-19
	Riparian Buffers	7-23
	Shoreline Buffer	7-25
	Conclusion and Recommendations	7-27
VIII	Natural Hazards	
	Introduction	8-1
	Public Survey	8-3
	Hazard Mitigation	8-5
	Typical Existing Mitigation Strategies	8-23
	Additional Mitigation Strategies	8-28
	SNHPC Region Community Preparedness Program	8-32
	Conclusion	8-32

IX	Cultural and Historic Resources	
	Introduction	9-1
	Public Survey	9-3
	Historic Preservation Tools	9-4
	Local Actions to Encourage Preservation Efforts	9-7
	Types of Preservation	9-8
	Future Preservation Efforts	9-13
	Conclusion	9-16
X	Open Space and Recreation	
	Introduction	10-1
	Public Survey	10-1
	Importance of Open Space and Recreation	10-2
	Economies of Open Space	10-7
	Open Space Protection Techniques	10-13
	Regulatory Measures	10-17
	Open Space Development versus Conservation	10-19
	Subdivision	
	Open Space and Recreation Planning	10-21
	Organizations, Programs and Funding Opportunities	10-23
	Summary of Region's Protected Lands	10-31
	Summary of Region's State Parks, Forests and	10-35
	Recreational Areas	
	Conclusion and Recommendations	10-43
XI	Public Facilities and Services	
	Introduction	11-1
	Public Survey	11-2
	Education	11-4
	Police Protection	11-8
	Fire Protection	11-10
	Ambulance and Emergency Services	11-13
	Library Services	11-14
	Government Offices	11-16
	Property Values and Tax Rates	11-18
	Future Conditions	11-19
	Conclusions	11-21

XII	<b>Public Utilities and Communication</b>	
	Introduction	12-1
	Public Survey	12-3
	Public Water Services	12-5
	Town Water Service Inventory	12-8
	Public Sewer Service	12-14
	Town Sewer System Inventory	12-16
	Septage Disposal	12-20
	Stormwater	12-21
	Solid Waste	12-25
	Hazardous Waste	12-25
	Electricity	12-27
	Natural Gas	12-30
	Communication Infrastructure	12-31
	Future Conditions	12-35
	Concerns and Recommendations	12-37
	Conclusion	12-40
XIII	Transportation	
	Introduction	13-1
	Public Survey	13-3
	Issues and Concerns	13-4
	Existing Conditions	13-5
	Future Conditions	13-18
	Conclusion	13-26
XIV	Future Land Use	
	Introduction	14-1
	Public Survey	14-1
	Creating the Future Land Use Map	14-2
	Future Land Use by Municipality	14-3
	Future Land Use Scenario Mapping	14-4
XV	Appendix	
	A. Agriculture	
	Existing Local, State, and Federal Agricultural	A-1
	Programs	
	Agriculture Resources	A-3
	Master Plans Addressing Agricultural	A-4
	Sustainability	

Additional Contact Information	A-4
D. Natarral D	
B. Natural Resources	D 1
Ponds and Lakes within the Region	B-1
NH Wildlife Action Plan, Species of Greatest	B-3
Concern	
C. Cultural and Historic Resources	
National Register of Historic Places	C-1
State Register of Historic Places	C-2
NH Historic Markers in the Region	C-3
SNHPC Historic American Building Survey	C-4
D. Open Space and Recreation	
Region's State Parks, Forests and Recreation	D-1
Areas	<b>-</b>
Further Implementation Strategies and Programs	D-4
E. Public Facilities	
SNHPC Public Schools	E-1
SNHPC Private Schools	E-3
21 (111 0 111 (000 2 0110 010	
List of Tables and Figures	
SNHPC Region Land Use of Total Acreage,	2-5
2000 to 2009	
2009 Total Land Area	2-7
Commercial and Industrial Development	2-8
Growth Management Zoning	2-9
Economic Development Zoning	2-11
Environmental Characteristics Zoning	2-13
Incentive Based Zoning	2-15
Total Housing Unit Increase	3-4
Proportion of Housing Unit Types	3-6
Comparative Dwelling Unit Projections	3-7
Total Region Population Change	3-7
Median Area Family Income, 2008	3-10
Percentage of Family Households in Total	3-10
Households Madien Monthly Pontal Costs	2 11
Median Monthly Rental Costs	3-11
Population Age 55 and over	3-12

Median Age	3-13
Commuting Times and Locations	4-6
Commuting Out of State for Work by Community	4-6
Average Median and Mean Household Incomes	4-7
by SNHPC Community, 2009	
Poverty Rates by SNHPC Community	4-8
Average Weekly Wage by Town, 2009	4-9
Educational Attainment, 2000	4-10
Population Change by Age, 1990 – 2010	4-11
Annual Average Covered Employment	4-13
Region Employment by Industry	4-14
Economic Development Measures by Municipality	4-16
Target Industry Analysis Recommendations	4-22
Future Employment Projections	4-29
Household Heating Type	5-6
Property Taxation Exemptions	5-7
Primary Zoning Districts for Unrestricted Agriculture	6-3
Number of Farms, by County	6-6
Land Coverage of Farms, by County	6-6
Average Size of Farms in Acres, by County	6-7
Farm and Farm Related Employment in NH	6-8
Community Supported Agriculture	6-9
Steep Slope Acreage	7-14
Percent Loss of Forest Land by Municipality	7-15
Percent of Land with Forest Blocks Greater than	7-16
500 Areas by Municipality	
NH Critical Habitat List	7-20
Common Soil Types Favorable for Building,	7-26
Septic Fields and Construction	
Summary of National Flood Insurance Program	8-7
Federally Declared Flooding Disasters, 1986 – 2010	8-9
Class H and S Dams in the SNHPC Region	8-12
Federally Declared Severe Storms/Wind Disasters	8-13
Saffic-Simpson Hurricane Scale	8-13
Fujita Tornado Damage Scale	8-14
Federally Declared Tornado Disasters	8-14
Dolan-Davis Nor'easter Classification Scale	8-15
Federally Declared Snowstorm Disasters	8-18
Federally Declared Ice Storm Disasters	8-19
Northeast Seismicity, 1975 to 2010	8-21

Additional Mitigation Strategies to Reduce Risk	8-29
Local Historic Preservation Organizations	9-8
Local Resource Protection Priorities	9-16
Protected Lands by Municipality	10-32
State Reservation in SNHPC Region	10-35
Capital Improvement Plans by Municipality	11-2
SNHPC Regional High School	11-7
Education Budgets by Municipality	11-8
Police Budgets by Municipality	11-9
Police Employees by Municipality	11-10
Fire Protection Budgets by Municipality	11-11
Fire Employees by Municipality	11-12
Emergency Services Budgets by Municipality	11-13
Library Budgets by Municipality	11-16
General Government Budget by Municipality	11-17
General Government Employees by Municipality	11-17
Tax Rates per \$1,000 from 2000 – 2010	11-18
Utilities by Town	12-2
Septage Disposal Sites and Town Responsibilities	12-21
Operating Solid Waste Disposal Sites	12-26
Transportation Fiscal Constraint Summary	13-4
Commuting Methods	13-6
Historic Commuting Methods	13-7
Commuting Times and Locations	13-8
Percentage of Residents Working Out of State	13-8
MTA Annual Ridership, 1990 – 2009	13-11
NH Freight Shipments by Truck and Freight	13-13
Historic Passenger and Cargo Activity	13-14
MTA Routes	13-12
NH Railroad Network	13-17
Alternative Financing Methods	13-23
Future Highway Projects with Major Impacts	13-24
on Traffic Patterns	
Master Plans in the SNPC Region	14-2
Population and Housing Unit Projections	14-19
Total Developed Land Area 1995, 2009, 2015	14-21
Total Non-Residential Land Area 1995, 2009, 2015	14-22
Total Residential Land Area 1995, 2009, 2015	14-23

## **List of Maps**

Generalized Existing Zoning	2-19
Surface Water	7-4
Aquifers	7-10
Steep Slope	7-13
Forest Cover	7-18
Wildlife Habitat Land Cover	7-22
Water Service	12-7
Sewer Service	12-15
Regulated MS4 Areas in NH	12-24
Electric Service	12-29
Natural Gas, Propane and Steam Utilities in NH	12-30
Wireless Communication Towers	12-32
Generalized Future Land Use	14-18

### **Executive Summary**

Formally organized in August 1966, the Southern New Hampshire Planning Commission (SNHPC) region consists of 13 communities; Auburn, Bedford, Candia, Chester, Deerfield, Derry, Goffstown, Hooksett, Londonderry, Manchester, New Boston, Raymond and Weare. This 490-square-mile region encompasses portions of Merrimack, Hillsborough and Rockingham counties.

Working under the provisions of RSA, Chapter 36; the SNHPC strives to provide services including, but not limited to, increasing communication; promote intergovernmental cooperation and coordination between planning boards and local officials; promote coordinated development of the region; prepare and adopt regional plans, including policies and strategies for the region; and assistance with transportation. The SNHPC also helps communities handle situations that are beyond municipal boundaries. The Commission encourages each town to think regionally, but act locally, allowing improvements and positive changes to affect the greater good of the whole region.

The emphasis and focus of this plan has been on sustainability. For use in the plan, "sustainability" refers to providing for the needs of current and future generations by promoting fiscally sound and socially responsible long term decision-making that will enhance the ecology, economy, empowerment, efficiency and health of the region. These five areas represent the five legs of sustainability as identified by the American Public Works Association Center for Sustainability.

Guiding this update has been an active Advisory Committee chaired by Karen McGinley, planning commissioner from the Town of Bedford. Dave Danielson has also provided invaluable support as Vice-Chair.

This update is important as it includes the new 2010 Census data for the region and each municipality. In addition, the plan includes for the first time -- a sustainability vision statement and principles for the region; indicators and targets for each goal; and identified programs and actions.

We believe the plan will be helpful as a guide for all the municipalities in the region as planning boards begin to update their master plans in the coming years. The plan is also helpful in guiding future programs and studies of the planning commission.

Some of the key findings of the plan include:

- The region is now home to a total of 261,262 residents slightly less than the 263,389 residents estimated by the OEP for the region in 2009;
- The region is projected to add more than 41,000 residents over the next 20 years;

- All of the region's municipalities experienced a growth in population, except for the towns of Candia and Derry which actually showed slightly less residents in 2010 then 2000;
- Despite current economic downturn, the region is consuming land at a steady and constant rate in 1995, approximately 38 percent of the region was developed. By 2009, the total number of developed acres increased to 44 percent;
- At this rate, we estimate that 50 percent of the region will be developed by 2015;
- By far the largest user of land is residential which increased by 18.7 percent between 2000 and 2009;
- By far the smallest use of land is industrial which is continuing to experience a steady decline since 1995. Between 2000 and 2009, the region lost 11.5 percent of industrial developed lands;
- By far the fastest growing user of land is commercial development which experienced a 141.1 percent increase between 2000 and 2009;

In terms of key issues, some of the most pressing needs include:

- Implementing energy conservation and developing sustainable and inexpensive sources of energy, including alternative fuels;
- Despite falling property values and rising personal incomes, the SNHPC region is still not keeping pace with the rising cost of home ownership and as a result, affordable housing remains a critical need;
- Despite positive healthy and livability indicators and an improving economy, the SNHPC region still lacks good paying jobs and the region's municipalities continue to be hard hit with lower tax revenues and financial resources to pay for current and future needs;
- While the region continues to loose farmland, the popularity of local agricultural production and sales is increasing with buy and eat locally raised food programs and community service agricultural;
- Historic preservation continues to be an important quality of life need, but fewer and fewer communities have the resources and means to put into practice many of the preservation tools permitted by state statute;
- Protecting open space and the natural environment also continues to be viewed as an economic development and quality of life issue. Greater acceptance of the need to balance growth and development and find ways to grow the local tax base remains at the forefront of many planning decisions;

- Through active emergency management planning and funding, municipalities in the region have been able to take significant steps forward in protecting the public and preparing and addressing natural disasters;
- Paying for necessary capital facilities and local improvements, including transportation and education will continue to be a serious issue for the region – not only for sustaining the region's economic growth, but ensuring the region's quality of life. Greater cooperation, sharing of resources and alternative forms of taxes and other sources of revenues may be able to help address this issue in the future;
- This also holds true with respect to public utilities, including water and sewer improvements, solid waste collection, septage disposal, and stormwater which is now the leading source of pollution within the region.
- All in all, while improvements are being made, there is still much to do.

With continued efforts by our region in preserving our past while sustaining our present, the SNHPC region will always be a desirable place for future generation's to live, work, and play.