

Overview

Location

Situated on the Canadian border in northern New York State, St. Lawrence County offers the ideal setting for the growth and development of your business. We offer exceptional transportation facilities, low commercial power rates and the immediate availability of fully serviced industrial sites and buildings. Additionally, our proximity to major markets in the Northeastern United States and in the Montreal-Toronto corridor of Canada gives you easy access to supplies, company headquarters and customers.

Area

2,685 square miles

Weather

Mean Daily Temperature:

January 18° F

July 70° F

Population

111,931

Potsdam 15,957

Massena 13,121

Ogdensburg 12,364

Canton 10,334

Gouverneur 7,418

Workforce

Labor Force 50,500

Households 40,506

Median Household Income \$32,356

Per Capita Income \$15,728

Median Home Sales Price \$64,962

Local Utilities

Niagara Mohawk Power Corp.

Offers negotiated flexible electric rates for many types of new businesses, negotiable gas transportation rates and fixed rate gas discounts.

Massena Electric Department

Offers negotiated flexible electric and fixed rate electric discounts for many types of new businesses and negotiable firm gas transportation service. The only municipally-owned utility in the County, Massena Electric provides electric service to Massena and portions of surrounding townships.

St. Lawrence Gas Company

Provides natural gas services to the communities of Canton, Gouverneur, Heuvelton, Lisbon, Madrid, Massena, Norfolk, Norwood, Ogdensburg, Potsdam, Raymondville and Waddington. In addition, the St. Lawrence Gas Company has co-generator projects in Gouverneur and New Bremen.

Market Access

The County's border location offers advantages for companies serving markets in both the United States and Canada.

Canadian companies serving the US market appreciate the ease of access to the branches and subsidiaries they have located in St. Lawrence County.

Education

Five colleges and universities enroll over 10,000 students, including three colleges operated by the State University System. Clarkson University is home to the State's Center for Advanced Technology in Advanced Materials Processing.

Clarkson University, Potsdam	2,978
St. Lawrence University, Canton	1,983
SUNY College of Technology, Canton	2,278
SUNY College at Potsdam	4,562
SUNY College of Environmental Science & Forestry, Wanakena	100

Empire Zones

There are New York State certified "Empire Zones" for economic development in Ogdensburg and Potsdam. To foster business development, in some cases Empire Zone benefits are extended beyond historical contiguous boundaries to other locations.

10 Largest Employers

ALCOA	St. Lawrence University
St. Lawrence County	Claxton-Hepburn Medical Center
Clarkson University	St. Lawrence NYSARC
United Helpers Organization	Canton-Potsdam Hospital
St. Lawrence-Lewis BOCES	SUNY Potsdam

Table of Contents

I. GENERAL INFORMATION

- 1.0 St. Lawrence Co. Characteristics
- 2.0 Population Characteristics
- 3.0 Housing
- 4.0 Land Use and Regulations

II. PUBLIC & PRIVATE SERVICES

- 1.0 Utilities
- 2.0 Transportation
- 3.0 Community Services
- 4.0 Media Services

III. EDUCATION

- 1.0 Primary & Secondary Schools
- 2.0 Boards of Coop. Edu. Svcs.
- 3.0 Higher Education

IV. LABOR & EMPLOYMENT

- 1.0 Labor Force
- 2.0 Income

V. INDUSTRY

- 1.0 Agriculture
- 2.0 Lumber & Logging
- 3.0 Paper Industry
- 4.0 Mineral Ext. & Pri. Metals Ind.
- 5.0 Electronics Industry
- 6.0 Institutional Industry
- 7.0 Energy Supply Industry
- 8.0 Tourism
- 9.0 Retail Trade

VI. GOVERNMENT REGULATIONS

- 1.0 Government
- 2.0 Tax Requirements
- 3.0 Government Assistance
- 4.0 Industrial Sites & Office Parks

VII. CULTURE & RECREATION

- 1.0 St. Lawrence County Attractions
- 2.0 Cultural Resources
- 3.0 Recreational Facilities
- 4.0 Outdoor Recreation

General Information

We begin with an overview of St. Lawrence County and its residents, nestled between the St. Lawrence River, the Thousand Islands region, and the Adirondack Mountains. This section provides information about the physical land and climate, the most recent demographics of its inhabitants, and the available housing in the County.

1.0 ST. LAWRENCE COUNTY CHARACTERISTICS

1.1 Location and Size

St. Lawrence County is located in Northern New York along the Canadian border. The Adirondack Mountains lie to the east, the Thousand Islands region to the south, and the St. Lawrence River to the northwest. The total land area of the County is 2,685 square miles. It comprises thirty-two towns, thirteen villages, and one city. The County Seat is in the town of Canton, which is near the geographic center of the County.

In close proximity are the Canadian cities of Ottawa and Montreal. Lake Placid, home to the 1932 and 1980 Winter Olympic Games, is a short drive through the picturesque Adirondack Mountains.

Interstates 81 and 87 are within easy reach, and access to ocean shipping routes is as close as the St. Lawrence Seaway. Highway 401 is just over the Canadian border; this roadway connects the metropolitan areas of Toronto, Montreal, and Windsor and continues across Canada.

1.2 Topography

St. Lawrence County may be divided into three physiographic regions, each with its own distinguishing features. The St. Lawrence Valley, the Adirondack Foothills, and the Adirondack Mountains were all shaped during the glacial period.

St. Lawrence County
PHYSIOGRAPHIC REGIONS

	St. Lawrence Valley	Adirondack Foothills	Adirondack Mountains
Length	70 miles	50 miles	Approximately 40 miles
Width	22 miles	5-12 miles	Approximately 20 miles
Area	1,540 square miles	250-600 square miles	973 square miles
Elevation	158-600 ft.	600-1,000 ft.	Over 1,000 ft.
Land	Level to gently sloping; wetlands, shallow lakes, slow streams	Hills, ponds, fewer wetlands, rapid rivers, rapid streams	Mountains, marshes, bogs, rivers, streams, lakes, ponds
Ground Water	High quantity and quality	High quantity and quality	High quantity and quality
Soils	Heavy Poor drainage Marine clay	Lighter Good drainage Sandy deposits	Thin Rock underneath Pockets of peat Precambrian bedrock
Special Notes	50% of County excellent for agriculture, extensive hydro-power	4 major rivers, little flooding, extensive hydro-power	County's highest point: Mt. Matumbula 2,688 ft

1.3 Principal Bodies of Water

All of St. Lawrence County is within the watershed of the St. Lawrence River. Approximately 12% of the North American continent is drained by this system. There are numerous minor watersheds in the County, all of which run north to the St. Lawrence River. Approximately 93% of the County is drained by one of four major rivers: the Raquette, the Oswegatchie, the St. Regis, and the Grasse.

St. Lawrence County
RIVERS

Principal Rivers	Drainage Area (sq. mi.)	Flow (cu.ft./sec.)	Measured at	Length* (mi.)
St. Lawrence		242,800	Massena	76
Oswegatchie	1,609	2,660	Ogdensburg	133
Raquette	1,204	2,089	Raymondville	163
Grasse	637	607	Pyrites	112
St. Regis	910	1,034	Brasher Falls	77

* Length within St. Lawrence County only

St. Lawrence County
MAJOR LAKES AND RESERVOIRS

Lake/Reservoir	Area (sq. mi.)
Black Lake	17.2
Cranberry Lake	10.7
Carry Falls Reservoir	10.1
Rainbow Falls Reservoir	1.1
Blake Reservoir	1.0

1.4 Climate

The delightful four-season weather of the North Country is an endless source of pleasure to its residents and visitors. Cold winters are offset by the gradual transition to spring, warm, sunny summers, and breathtaking autumn days. The following information describes the year-round climate found in St. Lawrence County.

St. Lawrence County
GROWING SEASON

Annual Average..... 163 Days
 Last Spring Frost April 30 – May 10
 First Fall Frost September 30 – October 10

St. Lawrence County
TEMPERATURE

July mean	70° F	21.1°C
July maximum	100° F	37.8°C
January mean	18°F	-7.8°C
Annual mean	46°F	7.8°C

St. Lawrence County
PRECIPITATION

Annual mean	32 in.	81 cm.
Growing season	8-16 in.	20-40 cm.
Annual mean snowfall	66 in.	168 cm.

Source: St. Lawrence County Planning Department

The following table compares the weather in Massena, a St. Lawrence County village, with representative communities in North America. The first table, comparing temperature, is measured in degrees Fahrenheit (° F), and a dash (-) indicates that information was unavailable.

TEMPERATURE

	Massena New York	Montreal Quebec	Rochester New York	Chicago Illinois	Stockton California
WINTER					
Maximum	27.8	-	33.1	-	55.4
Minimum	9.1	-	20.9	-	38.5
Mean	18.5	16.4	47.0	26.7	47.0
SPRING					
Maximum	55.9	-	58.4	-	72.9
Minimum	33.8	-	38.0	-	46.4
Mean	44.8	42.2	48.2	49.0	59.7
SUMMER					
Maximum	74.4	-	76.6	-	92.4
Minimum	53.4	-	55.8	-	59.5
Mean	63.9	68.0	66.3	73.3	76.0
AUTUMN					
Maximum	54.6	-	57.8	-	77.1
Minimum	36.0	-	39.9	-	50.1
Mean	45.3	47.6	48.9	53.7	63.7

Source: St. Lawrence County Planning Department

Precipitation includes sleet, hail, etc., but the most common forms are rain and snow. The figures in the table below represent precipitation in inches and a dash (-) indicates that information was unavailable.

PRECIPITATION

	Massena New York	Montreal Quebec	Rochester New York	Chicago Illinois	Stockton California
WINTER					
Rain	2.33	2.45	2.55	1.90	2.49
Snow	12.00	N/A	14.20	N/A	N/A
SPRING					
Rain	1.55	2.45	2.45	3.30	2.45
Snow	4.00	N/A	3.80	N/A	N/A
SUMMER					
Rain	3.88	5.50	1.04	3.73	0.07
AUTUMN					
Rain	3.95	3.17	3.53	2.60	0.87
Snow	3.00	N/A	2.50	N/A	N/A

Source: St. Lawrence County Planning Department

2.0 POPULATION CHARACTERISTICS

The following tables and graphs will provide a demographic snapshot of St. Lawrence County’s population. Like much of northern New York, St. Lawrence County has experienced a slight population decline. However, it remains very attractive as both a potential market and labor pool for area businesses.

2.1 Population by Age

2.2 Population Trends

YEAR	St. Lawrence County		New York State	
	POPULATION	% CHANGE	POPULATION	% CHANGE
1910	89,000		9,113,600	
1920	88,100	-1.0	10,385,200	13.9
1930	91,000	3.3	12,588,100	21.2
1940	91,100	0.1	13,479,100	7.1
1950	98,900	8.6	14,830,200	10.0
1960	111,200	12.4	16,782,300	13.2
1970	112,300	1.0	18,241,400	8.7
1980	114,300	1.8	17,558,200	-0.8
1990	111,974	-2.0	17,990,778	2.5
2000	111,931	-2.5	18,489,997	2.8
2005*	118,646	6.0	18,865,318	-0.6
2010*	121,099	2.1	18,984,166	0.6

* Projections

Source: New York State Statistical Yearbook 1998 & 2001

2.3 Population by Race / Ethnic Group

At the time of the 2000 Census, St. Lawrence County's population was primarily white. Only the County's American Indian population exceeds the State average.

Race/Ethnic Group	St. Lawrence County	Percent	New York State	Percent
White	105,782	94.51	12,893,689	67.95
Black/African American	2,664	2.38	3,014,385	15.88
American Indian *	977	0.87	82,461	0.43
Asian	800	0.71	1,044,976	5.51
Other	1,708	1.53	1,940,946	10.23
Hispanic Origin **	2,008	1.79	2,867,583	15.11
TOTAL POPULATION	111,931		18,976,457	

* Includes Alaska Natives, Eskimos and Aleutian Islanders

** Hispanics are counted in the various racial categories, so their population is counted twice

Source: New York State Statistical Yearbook 2001

2.4 Households

The total number of households in St. Lawrence County as of 2000 was 40,506. The average number of persons per household was 2.49. Of the total households, 26,939 were family households. Family households include two or more persons occupying a given housing unit, including the householder, who are related by blood, marriage, or adoption. A breakdown of family households follows:

Husband-Wife Families	20,871
Male Householder – no spouse	1,892
Female Householder – no spouse	4,176

There are 13,567 non-family households and 11,116 people live in group quarters. Those living in group quarters include institutions, barracks, dormitories, convents, etc.

2.5 Population and Area

TOWN	SQUARE MILES	2000 POPULATION	POPULATION PER SQUARE MILE
Brasher	92	2,337	25.4
Canton	105	10,334	98.4
Clare	97	112	1.2
Clifton	136	791	5.8
Colton	242	1,453	6.0
DeKalb	83	2,213	26.7
Depeyster	43	936	21.8
Edwards	51	1,148	22.5
Fine	167	1,622	9.7
Fowler	60	2,180	36.3
Gouverneur	72	7,418	103.0
Hammond	62	1,207	19.5
Hermon	53	1,069	20.2
Hopkinton	185	1,020	5.5
Lawrence	48	1,545	32.2
Lisbon	108	4,047	37.5
Louisville	48	3,195	66.6
Macomb	61	846	13.9
Madrid	53	1,828	34.5
Massena	47	13,121	279.2
Morristown	46	2,050	44.6
Norfolk	55	4,565	83.0
Oswegatchie	66	4,370	66.2
Parishville	98	2,049	20.9
Piercefield	104	305	2.9
Pierrepoint	60	2,674	44.6
Pitcairn	60	783	13.1
Potsdam	102	15,957	156.4
Rossie	38	787	20.7
Russell	97	1,801	18.6
Stockholm	94	3,592	38.2
Waddington	52	2,212	42.5
City of Ogdensburg	5	12,364	2472.8
St. Lawrence County	2,690	111,931	41.6
New York State	47,224	18,976,457.	401.8

3.0 HOUSING

Throughout St. Lawrence County there are a variety of housing options available to either permanent or temporary residents. There are 49,721 housing units within the County, which include year-round units and vacant, seasonal and migratory units. Single-family homes make up the largest number of these. There are 34,040 single-family homes in St. Lawrence County.

3.1 Existing Housing (2000 Census)

<u>Occupied:</u>	
Owner Occupied	28,606
Renter Occupied	11,900
Total Occupied	40,506
 <u>Vacant:</u>	
For Sale or Rent (Vacant)	3,109
For Seasonal Use (Vacant)	6,106
Total Vacant	9,215
 Total Housing Units	 49,721

3.2 Home Ownership Housing Costs (2001)

Profile of an average sold residential (single family) property:

List Price	\$70,483
Selling Price	\$64,962
# of Bedrooms	3
# of Bathrooms	1
Average Square Footage	1,667

Source: St. Lawrence County Board of Realtors

For estimates of real property taxes, see Section VI-2

3.3 Owner-Occupied Housing (2000)

Median Value	\$60,200
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3.4 Renter-Occupied Housing (2000)

Median Rent	\$428
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3.5 Business Rental Property (1996)

TYPE OF BUSINESS	AVERAGE RENTAL
Average Store (no utilities)	\$400-\$500 per month
Average Store on Main Street (no utilities)	\$400-\$500 per month (Approx. \$6/sq.ft.)

Source: St. Lawrence County Real Estate Brokers

Profile of average business property sold (2001):

List Price	\$74,809
Selling Price	\$65,909
Average Square Footage	3,641

Source: St. Lawrence County Board of Realtors

3.6 Cost of Land (1996)

TYPE OF LAND	AVERAGE COST
100' X 150' village lot with sewer and water	\$15,000 – 20,000
New subdivision village lot	\$15,000 – 20,000
150' frontage rural lot	\$ 8,000 – 10,000
35 acres of rural land	\$ 4,000 – 10,000

Source: St. Lawrence County Real Estate Brokers

Profile of average cost of land (2001):

List Price	\$19,066
Selling Price	\$16,266
Average Square Footage	.035 to 231

Source: St. Lawrence County Board of Realtors

3.7 Temporary Housing (1990 Census)

In St. Lawrence County there are 58 hotels and motels, plus inns and cottages to provide temporary housing. A total of 1,229 rooms with a total capacity of 4,205 persons are available through these 90 separate business establishments.

4.0 LAND USE AND REGULATIONS

The power to regulate the use of land in New York State is generally granted to local units of government. In St. Lawrence County 40 of the 47 municipalities have exercised those powers by adopting some type of land use management practices. These land use practices have concentrated on establishing use regulations and minimum development standards regarding density, building setback, off-street parking, signs and other aspects of construction. Enforcement of established regulations varies from community to community.

The most common form of land use control in the county is subdivision regulations which are enforced by 26 municipalities. Subdivision regulations include the review and division of land into parcels so that minimum development standards are met including:

roads

drainage

lot layout

orderly growth and development

Zoning regulations have been established to assist in separating incompatible uses, protecting natural resources, protecting home and business investments, and preventing overcrowding. Dividing land into separate land use districts and developing community plans are done in accordance with these established zoning regulations.

State agencies do exert some land use controls over lands in a number of municipalities. In the southeastern portion of the county the Adirondack Park Agency develops and implements a park-wide land use plan. The enforcement of this land use plan protects the natural beauty and resources of the park.

The New York State Agricultural Districts Program has been active in St. Lawrence County since 1978. This government program was designed to benefit farmers throughout New York State by protecting farmland from potentially conflicting state projects, land zoning that is restrictive against farming, and harmful tax assessments. There are seven Agricultural Districts in St. Lawrence County. Each of these districts was approved by the St. Lawrence County Board of Legislators.

The St. Lawrence County Planning Board brings a county perspective to land use planning issues. The Planning Board has published a comprehensive land use plan with updates provided periodically. The County Planning Board reviews local projects which are located where they might affect county or state facilities or adjacent municipalities. The board uses a fast-track approach to projects without such impacts. Nearly 90% of all projects are sent back quickly “for local action.” Ultimate authority over most land use decisions rests with the local governmental units, with the exception of those towns within the Adirondack Park.

Public and Private Services

1.0 ST. LAWRENCE COUNTY UTILITIES

1.1 Electricity

St. Lawrence County is served by two electric power companies: the Niagara Mohawk Power Corporation and the Massena Electric Department. The Massena Electric Department is the only municipally owned utility in the County, and provides service to Massena and portions of Louisville, Brasher, Norfolk, and Stockholm. Niagara Mohawk serves the balance of St. Lawrence County.

The New York Power Authority is the nation's largest non-Federal public power company and the primary supplier of electricity in the State of New York. Power is sold to public and private utilities such as the Massena Electric Department. Special economic power is offered to companies that are expanding or planning a new facility, planning to increase their electric load by 400kW or more, and creating permanent jobs.

There are four classes of rates for St. Lawrence County: residential, small general, large general, and industrial service.

Local Electric Rates

As of September 2001	MASSENA ELECTRIC DEPARTMENT	NIAGARA MOHAWK POWER CORPORATION
Residential Service		
30-day Charge	\$5.00	\$14.92
Additional, per kWh	0.03678	fluctuates 4.78173¢
Small General Service		
<i>Non-Demand Rate:</i>		
30-day Charge	\$5.00	\$19.13
Additional, per kWh	0.04309	fluctuates .0670536
<i>Demand Rate:</i>		
30-day Charge	N/A	\$47.25
Additional, per kWh	N/A	\$8.32
Energy Charge, per kWh	N/A	fluctuates 2.91551¢
Large General Service *		
30-day Charge	\$35.00	\$260.15 **
Demand charge, 30-day rate	N/A	\$598.80 **
Demand charge, per kW	\$5.00	\$14.97 **
Reactive demand, per kVar	N/A	\$0.85
Energy charge, per kWh	0.02551	fluctuates 0.07073¢ **
Industrial Service		N/A
30-day Charge	\$162.50	
Demand Charge, per kW	\$6.50	
Reactive Demand, per kVar	\$0.45	
Energy Charge, per kWh	.01615	

*These rates apply for up to 2.2 kV

** This is a demand meter billed according to delivery voltage.

Demand Meter charges vary depending upon the amount of energy consumed. Specific questions regarding demand meter service should be directed to the appropriate power company listed below. For more information:

Massena Electric Department 71 East Hatfield Street Massena NY 13662 (315) 764-0253	Niagara Mohawk Power Corp. 20 Pine Street Potsdam NY 13676 (800) 932-0301 www.nimo.com	New York Power Authority PO Box 700 Massena NY 13662 (315) 764-0226
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1.2 Natural Gas

The St. Lawrence Gas Company provides natural gas services to the communities of Canton, Gouverneur, Heuvelton, Lisbon, Madrid, Massena, Norfolk, Norwood, Ogdensburg, Potsdam, Raymondville and Waddington. In addition, the St. Lawrence Gas Company has co-generator projects in Gouverneur and New Breonnen.

There are two basic rates for natural gas in St. Lawrence County: residential and commercial. Customers are charged based on the “therm” (1 therm = 100,000 BTU’s) or the Mcf (million cubic feet – 1 million therms). This rate structure, confirmed as of September 2001, has been in effect since November 1982.

RESIDENTIAL SERVICE		COMMERCIAL SERVICE	
30-day Charge	\$4.92	30-day Charge	\$4.92
First 4 therms, per therm	.001304	First 4 therms, per therm	.001304
Next 36 therms, per therm	.191717	Next 66 therms, per therm	.191717
Over 40 therms, per therm	.123117	Next 4,930 therms, per therm	.125517
Gas Transportation, per therm	.094200	Over 5,000 therms, per therm	.076617
Gas Supply, per therm	.014374	Over 50,000 therms, per therm	.061304
Load Balancing	.037456	Gas Transportation, per therm	.094200
		Gas Supply, per therm	.014374

For more information:

St. Lawrence Gas Company
PO Box 270
Massena NY 13662
(315) 769-3516

1.3 Liquid Propane Gas

Liquid propane gas is available in both bottled and bulk forms. Prices fluctuate on a daily basis and are charged according to industrial, commercial, or residential, rate structures. The twelve propane gas distributors in the County and their telephone numbers are listed below:

Agway Energy Products	(800) 540-6642
Barkley Energy Products	(315) 322-0506
Diamond Propane, Inc.	(800) 239-0566
Hammond Propane.....	(315) 324-5380
JC Merriman, Inc.	(315) 353-6626
M&M Energy Products.....	(315) 389-5005
Morristown Fuel & Supply Co., Inc.	(800) 889-6327
National Propane.....	(315) 386-3914
Petro-Star	(315) 848-3625
S&S Bottle Gas.....	(315) 384-3285
Suburban Propane	(315) 386-8460
Tiernan’s Home Center, Inc.....	(800) 286-5623

1.4 Telephone Service

A variety of telephone service plans are available for residents and businesses within St. Lawrence County. The major carrier for the County is New York Telephone, but there are three local carriers as well

Citizens Telephone Company.....(315) 324-5911
Service Area: Hammond and Macomb
Size: Approximately 1,700 customers

Edwards Telephone Company.....(315) 562-9911
Service Area: Edwards, DeGrasse, DeKalb Junction, Hermon
Size: Approximately 2,400 customers

Nicholville Telephone Company.....(315) 328-4411
Service Area: Nicholville, Fort Jackson, Hopkinton, North
Lawrence, Brasher Falls, Lawrenceville, Winthrop
Size: Approximately 2,500 customers

Verizon..... Residential Service: 890-6767
Business Service: 890-6464
Service Area: Balance of St. Lawrence County and New York
State

1.5 Internet Service Providers

In St. Lawrence County there are currently four Internet service providers. The table below provides contact information as well as comparison of the services offered:

	Slic Network Solutions	Westelcom	Northern Internet	TDS Net
Phone Number	(315) 328-5590 (800) 682-5590	(315) 785-2620 (877) 464-4726	(315) 788-1000 (877) 872-6638	(315) 562-9911
Is it a local call?	Local call for most of St. Lawrence County	Local call for most of St. Lawrence County	Local call for most of St. Lawrence County	(315) 347- (315) 562-
Web Hosting	Yes	Yes	Yes	Yes
Domain Hosting	Yes	Yes	Yes	Yes
Secure Server	Yes	Yes		Yes
Web page design	Yes	Yes	Yes	
E-commerce	Yes	Yes	Yes	Yes
Set-up fee *	None	None	None	None
Fixed monthly charges *	\$9.95/mo for 10 hours/mo \$16.95/mo for unlimited access	\$14.95/mo for unlimited access	\$14.95/mo for unlimited access	\$9.95/mo for 20 hours/mo \$16.58/mo for unlimited access
Usage charges *	\$1/hour over 10 hours	N/A	N/A	\$1/hour over 20 hours
Support 56 kbps modems	Yes	Yes	Yes	
How many subscribers?	Approx 2,000	Approx 12,500 in the 315 area code		

* Rates as of September 2001

1.6 Water Facilities

Good quality water resources are abundant in St. Lawrence County. Surface water supplies are readily available due to the number of springs, lakes, and rivers throughout the area. These surface water supplies are utilized by the largest of the County's industries, as well as the majority of municipalities.

Ground water supplies are sufficient for domestic use almost everywhere in the County. Those not served by a central water system utilize individual wells. In most areas of the County, ground water supplies are also sufficient to accommodate the needs of municipal systems, private systems, and industry.

1.7 Wastewater Facilities

St. Lawrence County has 22 municipal wastewater treatment facilities. Many of the rural communities not served by a municipal wastewater treatment system rely on

individual septic tank or leach field systems. The municipalities with treatment facilities are:

Brasher	Lisbon
Canton	Madrid
Colton	Massena
DeKalb	Norfolk
Edwards	Norwood
Fine	Ogdensburg
Gouverneur	Potsdam Town
Hammond	Potsdam Village
Hermon	Raymondville
Heuvelton	Rensselaer Falls
Lawrence	Unionville

1.8 Municipal Water and Sewer Information

Each municipality is responsible for its own water facilities and each has its own schedule of fees. Operation and hook-up charges vary with location and the amount of existing facilities (i.e. whether a tap has to be installed or activated). The city, town or village should be contacted for complete information.

2.0 ST. LAWRENCE COUNTY TRANSPORTATION

St. Lawrence County's transportation systems provide efficient and flexible movement of both passengers and materials throughout the County and to other regions. The County has established facilities for ground transportation, trucking, shipping, docking, air travel, and air freight.

2.1 Ground Transportation

St. Lawrence County is within short driving distance of a number of markets and urban centers. The driving times given in the following table are approximate for a starting point in Canton, which is roughly at the center of the County:

Driving / Truck Distances to Markets

United States

DESTINATION	DRIVING HOURS
Albany, New York	4.0
Binghamton, New York	3.5
Boston, Massachusetts	7.0
Buffalo, New York	5.0
Burlington, Vermont	3.0

Chicago, Illinois	15.0
Cleveland, Ohio	7.0
Detroit, Michigan	8.5
New York, New York	6.5
Philadelphia, Pennsylvania	7.5
Plattsburgh, New York	2.0
Rochester, New York	3.5
Syracuse, New York	2.5
Utica, New York	2.5
Washington, DC	9.0
Watertown, New York	1.5

Canada

DESTINATION	DRIVING HOURS
Cornwall	.5
Montreal	2.0
Ottawa	1.5
Toronto	5.0

Nearby highways include the following:

Interstates: 81, 87
 US Routes: 11*
 State Highways: 3*, 12*, 37*, 56*, 68*, 812*
 Canadian Highways: 401, 416

* Runs through or into St. Lawrence County

2.2 Trucking Services

There are 16 established trucking operations in St. Lawrence County. The cost of transport varies according to a number of factors, such as size of load, destination, one-way vs. two-way service, number of workers needed, and time frame.

2.3 Railroads

Commercial non-passenger rail service in St. Lawrence County is provided by CSX Transportation and St. Lawrence Railroad. Both rail systems provide fast access to national rail networks throughout the United States and Canada.

CSX Transportation operates the largest freight railroad system in the Northeast-Midwest portion of the United States. Operating in fifteen states and Canada, CSX Transportation serves a heavy industrial and consumer region which includes six of the ten largest population centers in the county. Canadian traffic traversing St. Lawrence County accounts for over half of CSX Transportation's local daily rail activity. In

addition, CSX Transportation services the County’s population centers in Massena, Gouverneur, Canton, Potsdam, and Norwood. Ogdensburg may be reached indirectly by interchange with the St. Lawrence Railroad. Typically, CSX Transportation handled metals, forest products, chemicals, grain, fuel, automobiles, as well as other local commodities.

The St. Lawrence Railroad has approximately 22 miles of shortline track which runs from Norfolk to Norwood and from Norwood to Ogdensburg. There are four stations along this route: Ogdensburg Port, Hoosier Magnetic (Norfolk), Norfolk Paper Company, and the engine house in Norfolk. The railroad interchanges with the CSX Transportation system at the Norwood train yard.

The Mohawk Adirondack and Northern Railroad services the Newton Falls Paper Company with a connection to the CSX Transportation main line at Carthage, New York.

Passenger rail service is presently not available in St. Lawrence County. However, passenger service is available on the Canadian side of the St. Lawrence River, connecting with the Amtrak system in Montreal. Amtrak also serves Syracuse, Utica, Albany, Plattsburgh, Rouses Point, and the eastern verge of the Adirondack Mountains.

For more information contact:

CSX Transportation 895 South Main Street Massena NY 13662 (315) 764-3300 Track Department (315) 764-3308	St. Lawrence Railroad Remington Avenue PO Box 590 Norfolk NY 13667 (315) 384-4473	Amtrak (800) 872-7245
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2.4 Airports

St. Lawrence County is served locally by a number of airports, including Richards Field (Massena), Ogdensburg International Airport, and Damon Field (Potsdam). Airports within a short drive include Watertown International Airport, Hancock International Airport (Syracuse), and the international airports of Ottawa and Montreal.

St. Lawrence County AIRPORTS

	RICHARDS FIELD	OGDENSBURG INTERNATIONAL AIRPORT	DAMON FIELD
Operated by	Town of Massena	Ogdensburg Bridge and Port Authority	Village of Potsdam

Length of Runways	2: 5,000 ft & 4,000 ft.	5,200 ft.	3,700 ft.
Services	Passenger Freight	Passenger Freight	Carrier Freight
Airline Carriers	US Air Express	US Air Express	Charter
Connects to	Pittsburgh International Airport	Pittsburgh International Airport	N/A
Contact	(315) 769-7605	(315) 393-0045	(315) 265-5640

AIRPORTS OUTSIDE OF ST. LAWRENCE COUNTY

	WATERTOWN INTERNATIONAL AIRPORT DEXTER NY	HANCOCK INTERNATIONAL AIRPORT SYRACUSE NY
Operated by	City of Watertown	City of Syracuse
Length of Runways	2: 5,000 ft. each	2: 9,500 ft. & 7,500 ft.
Services	Passenger Freight	Passenger Freight
Airline Carriers	US Air Express	8 passenger carriers 5 freight carriers
Driving Distance from County	Approx. 1 hour	Approx. 2 hours
Contact	(315) 639-3809	(315) 454-3263

CANADIAN AIRPORTS

	OTTAWA INTERNATIONAL AIRPORT OTTAWA ON	DORVAL INTERNATIONAL AIRPORT MONTREAL QC	MIRABEL INTERNATIONAL AIRPORT MONTREAL QC
Contact	(613) 998-3151	(514) 636-5921	(514) 476-3010
Driving Distance from Massena-Cornwall International Bridge	1.0 hours	1.0 hours	1.5 hours
Services	Domestic Transborder International Passenger Freight	Domestic Transborder	Domestic Transborder International

2.5 Port Facilities

The Port of Ogdensburg is owned and operated by the Ogdensburg Bridge & Port Authority. It offers full intermodal transportation options to industrial shippers. The Port is the only port on the Great Lakes designated as a Port of National Defense.

The Port is located on the St. Lawrence River, at Latitude 44 42'N and Longitude 75 30' W. This places it only 60 miles east of Lake Ontario and 90 miles west of Montreal.

The deep-draft berthing (27') can provide large sea vessels with access to the Great Lakes and world ports. Stevedoring services, warehousing, and upland storage is available for all types of bulk and general cargo, as well as raw materials. Regularly handled cargo include potash, road salt, crude, talc, wood pulp, zinc concentrate, sand, and baler twine. The facilities offer:

- 148,000 sq. ft. of warehouses
- 1,120 ft. of docking
- unlimited stevedoring services
- heavy equipment including rental cranes
- railroad facilities connecting with CSX Transportation

For additional information on the Port of Ogdensburg contact:

Ogdensburg Bridge and Port Authority
Bridge Plaza
Ogdensburg NY 13669
(315) 393-4080

2.6 Mass Transit and Regional Bus Service

Regional bus service is provided by Greyhound, Adirondack Trailways, and Thousand Island Bus Lines. Service is provided to Massena, Potsdam, and Canton en route to Watertown, Syracuse, Plattsburgh, Utica, Rochester, Albany, New York City, Burlington, or Montreal. For more information contact:

Adirondack Trailways
(315) 379-0923 (Canton)
(315) 265-2534 (Potsdam)

Greyhound
(315) 386-5621 (Canton)
(315) 265-2270 (Potsdam)
(315) 764-1739 (Massena)

Birnie Bus is now operating a twice-daily bus service between Canton and Watertown (stopping in Potsdam, DeKalb Junction, Gouverneur, Philadelphia, and Calcium) and between Canton and Plattsburgh (with stops in Potsdam, West Stockholm, Moira, Brushton, North Bangor, Malong, Thayers Corners, Chateaugay, Churubusco, Ellenburg, and Beekmantown). Rates vary from \$1.90 to \$15.90, with half fare for

Senior Citizens, disabled citizens, and children ages 3 to 11. The student discount is 25% and children under 3 ride free. A discount fare card is also available. Contact Birnie Bus at (315) 379-9935 for more information.

Charter service is also available from the following companies:

Flack Tours
Main Street
Lisbon NY 13658
(315) 393-7160
(800) 842-9747

Roethel Coach Tours
1801 Ford Street
Ogdensburg NY 13669
(315) 393-5200
(800) 698-0448

3.0 COMMUNITY SERVICES

3.1 911 and Direct Alarm Tie-In

St. Lawrence County has a centralized fire-rescue dispatch control center located in Canton which is operated by trained dispatchers around the clock. The center staff has the capacity to dispatch any fire, emergency, or medical unit within the County to an emergency scene and maintains contact with all police units. In addition to Emergency 911 service, any St. Lawrence County business, industry, or resident may arrange for a direct tie-in alarm system. Participating firms install their own equipment and lease the telephone line which provides 24-hour automatic monitoring.

3.2 Fire Protection

St. Lawrence County fire protection is provided by 43 separate fire departments. Ogdensburg has the only paid fire department with 37 fire fighters; the remaining departments are volunteer units averaging 45 volunteers each. There are a total of 2,200 volunteer fire fighters throughout the County.

For additional information about these services contact the St. Lawrence County Fire/Rescue Coordinator at (315) 379-2240.

3.3 Emergency Services

St. Lawrence County operates a mutual aid plan that allows any fire department to easily obtain the assistance of 200 fire fighters and rescue units and 10 additional vehicles during an emergency situation.

All fire departments within the County are also covered by State-certified rescue squads which are staffed by Emergency Medical Technicians and have Advanced Life Support capability. Emergency helicopter evacuation is readily available from Fort Drum, Saranac Lake, and Alexandria Bay.

The County also has a specially trained underwater recovery team which is comprised of approximately 100 members, of which over 50 are trained scuba divers in the 21 fire and rescue units throughout the County. The units involved with the dive team are the Potsdam, Madrid, Massena, Gouverneur, and Ogdensburg Rescue Squads, and the Norwood, Norfolk, Fine, Star Lake, Lisbon, West Stockholm, Morristown, Brier Hill, Louisville, Hogansburg, Waddington, Canton, Hannawa Falls, Parishville, and West Potsdam Fire Departments. In addition, the Tupper Lake Rescue unit is an affiliate member. For more information on the dive team call (315) 265-3392.

3.4 Police and Law Enforcement

St. Lawrence County receives police protection from the State Police, County Sheriff, and local police, a total of 201 officers. The County law enforcement agencies can also request the assistance of the State Police Troop B, which can provide approximately 300 additional officers to our area.

Local Police

Local police departments are located in the City of Ogdensburg, Town of Norfolk, and the Villages of Canton, Gouverneur, Massena, Norwood, and Potsdam.

POLICE DEPARTMENT	OFFICER COMPLEMENT
Canton	12
Gouverneur	8
Massena	21
Norfolk	2
Norwood	8
Ogdensburg	25
Potsdam	17
TOTAL	93

State Police and Sheriff Patrol

The New York State Police in St. Lawrence County operate out of five substations: Canton, Gouverneur, Massena, Ogdensburg, and Star Lake. The St. Lawrence County Sheriff's Department is headquartered in the Village of Canton and provides patrol service throughout the County.

STATE POLICE SUBSTATION	OFFICER COMPLEMENT
Canton	21
Gouverneur	10
Massena	24
Norfolk	4
Ogdensburg	11
Star Lake	2

Winthrop	4
TOTAL	76

COUNTY SHERIFF DEPARTMENT	OFFICER COMPLEMENT
St. Lawrence Co. Sheriff's Department	36

Crime Rates

As may be expected from the generally rural nature of the County, serious crime is much rarer in St. Lawrence County than the balance of the State. However, local agencies are fully capable of dealing with all levels of crime, as well as crime prevention. The following tables indicate reports and arrests for various crimes in the County and the State for 1999.

CRIMES REPORTED/KNOWN TO POLICE

TYPE OF CRIME	ST. LAWRENCE COUNTY	NEW YORK STATE
Murder	2	915
Rape	25	3,340
Robbery	3	45,101
Aggravated Assault	167	57,435
Burglary	615	91,418
Larceny	1,980	343,351
Motor Vehicle Theft	56	62,160

Source: New York State Statistical Yearbook 2001

FELONY AND MISDEMEANOR: ALL ADULT ARRESTS FOR MAJOR OFFENSES

TYPE OF CRIME	ST. LAWRENCE COUNTY	NEW YORK STATE
Assault	242	72,733
Homicide	2	1,425
Sex Offenses	48	6,582
Burglary	152	32,301
Larceny	258	58,023
Robbery	1	17,094
Drugs	105	145,764
Weapons	28	10,431
Prostitution	1	8,840
Custody	69	9,249
Criminal Mischief	187	19,582

Theft	97	41,257
Public Order	144	19,189
DWI	560	45,164
Other	669	65,660
TOTAL	2,563	553,294

Source: New York State Statistical Yearbook 2001

3.5 Hospitals

There are five hospitals serving St. Lawrence County, of which three have adjoining nursing facilities. They are located in Gouverneur, Massena, Ogdensburg, Potsdam, and Star Lake.

Claxton-Hepburn Medical Center
Physicians: 40
Nurses: 172
Bed Capacity: 120 + 29 Nursing

Claxton-Hepburn Medical Center
214 King Street
Ogdensburg NY 13669
(315) 393-3600

Canton-Potsdam Hospital
Physicians: 44
Nurses: 181
Bed Capacity: 77 + 17 Nursing

Canton-Potsdam Hospital
50 Leroy Street
Potsdam NY 13676
(315) 265-3300

Clifton-Fine Hospital
Physicians: 3
Nurses: 12

Clifton-Fine Hospital
Star Lake NY 13642
(315) 848-351

EJ Noble Hospital
Physicians: 9
Nurses: 64
Bed Capacity: 47 + 40 Nursing

EJ Noble Hospital
77 W Barney Street
Gouverneur NY 13642
(315) 287-1000

Massena Memorial Hospital
Physicians: 25
Nurses: 96
Bed Capacity: 40

Massena Memorial Hospital
One Hospital Drive
Massena NY 13662
(315) 764-1711

4.0 MEDIA SERVICES

4.1 Newspapers

St. Lawrence County businesses and residents can receive local, regional, and national news and features from the following local and regional newspapers:

Ogdensburg Advance News (S)

North Country This Week (W)

308 Isabella
Ogdensburg NY 13669
(315) 393-1003

Ogdensburg Journal (M-F)
308 Isabella
Ogdensburg NY 13669
(315) 393-1003

Courier-Observer (T-S)
56 ½ Main Street
Massena NY 13662
(315) 769-2451

71 Market Street
Potsdam NY 13676
(35) 265-6000

North Country Catholic (W)
308 Isabella
Ogdensburg NY 13669
(315) 393-2540
Fax: (315) 393-5108

County Pennysaver (W)
305 Main Street
Massena NY 13662

St. Lawrence Plaindealer (W)
75 Main Street
Canton NY 13617
(315) 386-8521

Syracuse Post Standard (D, S)
Clinton Square
Syracuse NY 13221
(315) 470-0011

19 Depot Street
Potsdam NY 13676
(315) 265-2068

Free Trader (W)
West Hatfield Street Road
Massena NY 13662
(315) 769-7149
Fax: (315) 764-7440

Clarkson Integrator (W)
Box 8710
Potsdam NY 13699
(315) 265-9050

Post Standard–Herald American (D)
208 High Street
Watertown NY 13601
(315) 788-7893

Watertown Daily Times (D, S)
206 Washington Street
Watertown NY 13601
(315) 782-1000

17 Main Street
Canton NY 13617
(315) 386-3571

59 Main Street
Massena NY 13662
(315) 769-6621

107 East Main Street
Gouverneur NY 13642
(315) 287-2710

430 Ford Street
Ogdensburg NY 13669
(315) 393-0173

20 Elm Street
Potsdam NY 13676
(315) 265-2750

4.2 Radio

There are ten radio stations in the St. Lawrence County area which provide a variety of musical, news, and informational programming to businesses and residents. A portion of most listening audiences is Canadian.

WIGS AM 1230 kHz
WIGS FM 95.0 MHZ
Pooler Road
Gouverneur NY 13642
(315) 287-1230

WMSA AM 1340 kHz
2155 State Highway 420
Massena NY 13662
(315) 769-3591

PAC 93 / WPAC FM 92.7 MHZ
2315 Knox Street
Ogdensburg NY 13669
(315) 393-5228

The FSR Network
WSLB 1400 AM / 95.3/ 1230 AM
Box 229
Ogdensburg NY 13669
(315) 393-1100

WPDM AM 1470 KHz Country
WSNN FM 99.3 MHZ / 99 Hits FM
Potsdam-Canton Road
Potsdam NY 13676
(315) 265-5510

WSLU Fm 89.5 MHZ
North Country Public Radio
St. Lawrence University
Canton NY 13617
(315) 379-5356

WTSC (TV Cable 90.0 MHZ)
WNTC Fm 89.5 MHZ (Sept-May)
Clarkson University
Potsdam NY 13699
(315) 265-7650

WVNC Fm 96.7 MHZ/ MIX 96
56 Park Street
Canton NY 13617
(315) 379-9777

WYBG AM 1050 kHz
PO Box 298
Massena NY 13662
(315) 764-0554

WAIH FM 90.3 MHZ
SUNY Potsdam
Potsdam NY 13699
(315) 267-2511

4.3 Television

The local television station providing news and information to St. Lawrence County is WWNY-TV, located in Canton. Additional news and information is provided by a large number of television stations outside the local area, including Watertown, Syracuse, Plattsburgh and Canadian stations.

WWNY-TV News Canton Bureau
49 ½ Main Street
Canton NY 13617
9110

WCKN TV 30
Graham Hall
Potsdam NY 13699 (315) 379-
9110 (315) 265-2073

Cable Television

Citizens Cablevision, Inc.
365 Main Street
Hammond NY 13646
(315) 324-8000

Time Warner Cable TV
1 Fine Street
Ogdensburg NY 13669
(315) 393-3090

Time Warner Cable TV
2 Dodge Place
Gouverneur NY 13642
(315) 287-2610

Time Warner Cable TV
22 ½ Elm Street
Potsdam NY 13676
(315) 265-8300

Time Warner Cable TV
277 Andrews Street Road
PO Box 180
Massena NY 13662
(315) 764-0244

TDS Telecom
143 Main Street
Edwards NY 13635
(315) 562-9911

Education

1.0 ST. LAWRENCE COUNTY PRIMARY AND SECONDARY SCHOOLS

1.1 Enrollment in St. Lawrence County Public Schools

There are 17 central public school districts in St. Lawrence County, with a combined student body of almost 18,000. The County school districts spend between \$7,829 and \$12,113 per student each year. This funding is obtained from a number of sources, including State funds and local property taxes. The figures below are for the Fall 2000 enrollment, and include ungraded handicapped students in special programs:

CENTRAL SCHOOL DISTRICT	PRE-K	GRADES K-6	GRADES 7-12	TOTAL ENROLLMENT	STUDENT TEACHER RATIO
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Brasher Falls		606	478	1,084	12.3
Canton	48	764	837	1,649	12.3
Clifton Fine	26	189	214	429	10.2
Colton Pierrepont	24	223	202	449	10.4
Edwards Knox	32	394	401	827	12.9
Gouverneur		970	825	1,795	14.0
Hammond		183	166	349	11.6
Hermon DeKalb	27	235	207	469	11.4
Heuvelton	18	359	336	713	12.3
Lisbon		316	297	613	11.4
Madrid Waddington	34	440	374	848	14.4
Massena		1,338	1,546	2,884	13.5
Morristown		238	172	410	12.1
Norwood Norfolk		580	624	1,204	12.9
Ogdensburg City	36	1,058	1,042	2,136	11.8
Parishville Hopkinton		289	223	512	11.6
Potsdam	12	780	774	1,554	13.3
TOTAL	257	8,962	8,718	17,937	12.6

Source: NYS Education Department

1.2 Enrollment in Private and Non-Public Schools

There are 16 private and non-public schools in St. Lawrence County, most of which are religiously affiliated. The figures below are for Fall 2001 enrollment:

SCHOOL	AFFILIATION	GRADE SPAN	ENROLLMENT	STUDENT TEACHER RATIO
Canton St. Mary's School	Roman Catholic	PK-6	96	12.0
Canton Little River Community School	Non Denom	K-12	14	14.0
Gouverneur St. James School	Roman Catholic	PK-6	80	8.9
Gouverneur Richville Christian Academy	Christian Fundamentalist	K-12	10	2.0
Heuvelton Anderson Valley School	Mennonite	1-8	25	12.5
Heuvelton Locust Grove School	Mennonite	1-8	20	10.0

Heuvelton Mud Lake School	Mennonite	1-8	25	12.5
Heuvelton Plimpton School	Mennonite	1-8	8	4.0
Heuvelton Townline School	Mennonite	1-8	33	16.5
Heuvelton Twin Maples School	Mennonite	1-8	26	13.0
Heuvelton Rocky Ledge School	Mennonite	1-8	23	11.5
Massena New Testament Christian Academy	Christian Fundamentalist	K-8	32	6.4
Massena Trinity Catholic	Roman Catholic	PK-8	274	13.7
Norwood Norfolk Plumbrook Amish School	Amish	K-8	Unknown	Unknown
Ogdensburg Catholic Central School	Roman Catholic	K-6	101	11.2
Potsdam St. Mary's School	Roman Catholic	PK-6	96	12.0

1.3 St. Lawrence County Student Performance

New York State requires the testing of students to determine their development of the basic skills taught in the New York State Public School systems. The types of tests are as follows:

English Language Arts (ELA) tests skills in listening, reading, and writing in grades 4 and 8.

Mathematics knowledge, reasoning and problem solving skills are also tested in grades 4 and 8.

Regents Examinations are achievement tests based on State Education Department-recommended course of study for the high school level. Exams are developed by the State Education Department and a passing score is now required for graduation. There are four components: English, Mathematics, Global History, and US History and Government.

Students in St. Lawrence County perform well on State tests. National Merit and Regents Scholars are not uncommon.

% of Students Passing Tests in 2000 – 2001

Central School District	Grade 4		Grade 8		Regents Examinations			
	ELA	Math	ELA	Math	English	Math	Global History	US H&G
Brasher Falls	52	76	41	30	69	77	74	68
Canton	55	63	53	50	85	91	86	79
Clifton Fine	81	84	47	19	83	85	83	68
Colton Pierrepont	68	95	67	43	93	93	85	74
Edwards Knox	34	66	*21	57	84	86	80	84
Gouverneur	58	82	41	26	67	81	74	63
Hammond	65	83	70	72	74	95	100	95
Hermon Dekalb	63	93	80	64	92	84	76	79
Heuvelton	57	80	20	48	64	74	83	64
Lisbon	60	68	49	57	94	87	98	100
Madrid Waddington	62	74	56	29	77	71	79	75
Massena	65	74	50	45	78	83	85	73
Morristown	47	74	33	*47	59	94	88	82
Norwood Norfolk	68	96	35	56	73	79	74	63
Ogdensburg City	63	74	42	55	64	65	73	61
Parishville Hopkinton	95	97	54	79	89	83	86	83
Potsdam	85	91	64	56	84	75	84	82
New York State Average	60	70	45	39	69	68	71	56

* Figures for 1999-2000. All students were absent for the 2000-2001 test.

Source: New York State Education Department

1.4 Distribution of High School Graduates

In 2001, over 76% of St. Lawrence County's graduating high school seniors entered some form of post-secondary study.

Central School District	Regents Diplomas (2000-2001)		Percentage Entering College (2000-2001)	
Brasher Falls	56	%	75	%
Canton	84	%	87	%
Clifton Fine	62	%	84	%
Colton Pierrepont	43	%	80	%
Edwards Knox	50	%	81	%
Gouverneur	51	%	61	%
Hammond	62	%	67	%

Hermon Dekalb	43	%	54	%
Heuvelton	60	%	78	%
Lisbon	100	%	73	%
Madrid Waddington	62	%	77	%
Massena	50	%	76	%
Morristown	50	%	81	%
Norwood Norfolk	43	%	73	%
Ogdensburg City	69	%	84	%
Parishville Hopkinton	63	%	73	%
Potsdam	61	%	80	%
New York State Average	59	%	76	%

2.0 BOARDS OF COOPERATIVE EDUCATIONAL SERVICES

The Statewide system of Boards of Cooperative Educational Services (BOCES) was established in 1948. The BOCES function as an intermediate arm of the New York State Education Department. Through cooperative efforts of component school districts, the BOCES offer a wide variety of educational and support services to public educational agencies throughout the State.

BOCES, through superintendents, board members, and other local school district personnel, provide a focal point for the exchange of ideas and cooperative planning designed to improve the educational programs of our area. The three BOCES centers in St. Lawrence County are:

Northwest Tech Center 1000 Park Street Ogdensburg NY 13669 (315) 393-4570	Southwest Tech Center 3606 State Highway Rte 58 Gouverneur NY 13642 (315) 287-3590	Seaway Area Tech Center Route 56 Norwood NY 13668 (315) 353-2293
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In addition, BOCES maintains adult learning centers in Canton, Gouverneur, Massena, Norwood, and Ogdensburg.

Vocational and occupational training is available to adults and youth through the three BOCES centers. Occupational education prepares young people for careers in vocational and technical fields while completing courses required for high school graduation. Most courses are designed for an 11th and 12th grade level; however, these courses are open to secondary students - students who are under 21 years of age with a high school diploma or over 21 years of age without a high school diploma. Students may select from approximately 20 different occupational courses. Although most classes are held during the day, adult evening courses are also available.

Additional services available include adult basic education, high school equivalency, and external high school diploma programs. A special education program is available to handicapped students from birth to age 21.

The Pinewood Opportunity Center (established in 1984) and the Richville Opportunity Center (1985) were established to assist young people who have not succeeded at traditional junior high or high school programs, and who lack the self-confidence and the academic skills to complete traditional high school courses. This program is designed to provide two years of solid academic studies combined with a work experience component that provides full credit toward a diploma.

BOCES ENROLLMENT (2000-01)	
Career & Technical Education	855
Alternative Education	244
Adult Basic Education	629
Special Education	695

3.0 HIGHER EDUCATION

HIGHER EDUCATION SUMMARY (2001)		
Educational Institutions	Degrees Offered	Approximate Enrollment
4-Year Schools		
Clarkson University	BS,BPS,MS,ME,MBA,PhD	2700
SUNY College at Potsdam	BA, MA, MS	4000
St. Lawrence University	BA, BS, MEb, Certificates	1900
SUNY Canton College of Technology	AA, AS, AAS, BBA, BS, BT, Certificates	2000
2-Year School		
Ranger School of CESF	AAS	53

3.1 Colleges and Universities (Four-Year Programs)

CLARKSON UNIVERSITY

Clarkson University, established in 1896, is an independent coeducational university offering both undergraduate and graduate programs. The University is located in the Village of Potsdam on a 640-acre campus situated midway between the Adirondack Mountains and the St. Lawrence River.

A Bachelor of Science degree is offered in 27 areas of study, a Master of Science in 12 areas, a Master of Business Administration in 2 areas, and a Doctor of Philosophy degree in 8 areas of mathematics and science.

The University is divided into four major units: the School of Engineering, the School of Business, the School of Science, and the Faculty of Liberal Studies. Undergraduate programs lead to either a Bachelor of Science or Bachelor of Professional Studies. The

Graduate School offers programs leading to the degrees of Master of Science, Master of Business Administration, and Doctor of Philosophy. The University also offers special interdisciplinary undergraduate programs such as Arete (Management and Social Science) and Engineering and Management.

The Andrew Schuler Educational Resources Center, located on Clarkson's hill campus, combines the University's library and computer centers. The library has holdings of over 224,306 volumes and approximately 1,350 periodicals. The library's collections place special emphasis on chemistry, energy, engineering, environmental science and technology, management, mathematics, and physics. The ERC is open to the St. Lawrence County community.

The University completed two major additions within the last ten years: the Cheel Campus Center and the New York Center for Advanced Materials Processing (CAMP). The Cheel Center houses a hockey arena, student activities offices, dining service, post office, and a convenience store. CAMP is an 180,000-square foot research facility, sponsored in part by the New York State Legislature and private corporations.

CAMP is an interdepartmental organization aimed at increasing research interactions with industry. Recognizing the growing need for materials processing research and its own strengths in this field, Clarkson University established CAMP in 1985. The advanced materials researchers work with solids such as metals, glasses, plastics, and ceramics. They utilize chemical processes to create new materials and physical processes to shape, mix, and fasten materials together.

The Center of Advanced Technology (CAT) is one of the thirteen centers funded within the State of New York. The center is designated by the State to conduct research within certain areas. Some of these research areas include:

- Line particle processing
- Electronic fabricating processing
- Microcontamination control
- Polymer processing
- Materials processing in space
-

CAMP is currently enabling students and faculty to work with over 50 industrial companies, 30 of which are located in New York State (i.e. Xerox, IBM, Kodak, Corning, and Alcoa).

STATE UNIVERSITY OF NEW YORK AT POTSDAM

SUNY Potsdam traces its origins to the St. Lawrence Academy, which was founded in 1816. The college is located in the Village of Potsdam on 240 acres and is one of 13 State University of New York arts and science colleges.

The College offers both undergraduate and graduate programs. It is divided into three schools that offer arts and sciences, music, and teacher education programs. Degrees offered include a Bachelor's degree in Arts or Music, and a Masters's degree in Arts, Music, Science in Education, or Science in Teaching. The School of Liberal Studies offers 38 majors, 39 minors, and 17 education certifications. A double degree engineering program is also available in connection with Clarkson University or the State University of New York at Binghamton. The college also offers two other partnership programs: 2+2 BS degree in Economics with two years at Canton and 2 years at Potsdam, 4+1 MBA with Clarkson with 4 years at Potsdam and 1 year at Clarkson.

The Frederick W. Crumb Memorial Library is located in the center of the campus. It houses more than 795,000 items, including 310,000 bound volumes, 480,000 microforms and other non-book materials, 62,500 federal and state documents, and 1,500 active periodicals.

An integral part of the College is the Crane School of Music. Crane plays a leading role in music and music education in New York State and the nation. Half of all the public school music teachers in New York State graduated from Crane. The Crane building complex features a concert hall, a music theater, and an extensive music library. Each year, the school's symphony orchestra, numerous ensembles, chamber groups, and choruses present over 200 concerts from classical to avant-garde music; most are free of charge.

The North Country Economic Research Center was created in 1986 to study the local economy and enhance the regions economic prospects. The Economics Department houses the center and researches regional economic trends and provides information to industry, government and the media.

The College's Office of Graduate and Lifelong Learning offers to the public more than 60 conferences and approximately 100 non-credit courses each year. Courses for both adults and children, which include art, computing, sports, and recreation, typically attract 4,000 local residents yearly.

The College owns and operates a rustic recreational and educational facility 41 miles from Potsdam on the shores of Star Lake in the Adirondacks. The Star Lake campus offers students, faculty, and staff a variety of outdoor activities and is used for physical education courses. It is also available to the public for retreats and seminars.

ST. LAWRENCE UNIVERSITY

St. Lawrence University, founded in 1856, was the first coeducational college in New York State. The university is an independent, residential liberal arts college which offers both undergraduate and graduate programs. The 1,000-acre campus is located in the Village of Canton. The university is centrally located between the Adirondack Park and the beautiful Thousand Islands region of the St. Lawrence River.

The University awards Bachelor degrees in Arts and Science, and Masters degrees in Education. The university offers over 30 majors including a Bachelor of Science degree offered in 11 areas of study and a Bachelor of Arts degree in 20 areas.

The University places special emphasis on internationalism. Programs coordinated by St. Lawrence are located in Great Britain, Kenya, Japan, Denmark, Spain, France, Austria, Canada, and portions of the former Soviet Union. The university participates in the International Student Exchange Program and offers a semester at the American University in Washington, D.C.

The Owen D. Young Library collection reflects the liberal arts curriculum of the University. The library's emphasis includes American and English Literature, United States History, Canadian History, and International Relations. The library is also a depository for selected US, Canadian, and New York State government documents, as well as United Nations documents. The library's holdings amount to over 800,000 reference materials including 344,000 volumes, 213,000 units of microtext, and 2,400 subscriptions.

In addition to the main campus, the University maintains two conference centers in the Adirondack Mountains which may be used for academic retreats or organizational meetings.

STATE UNIVERSITY OF NEW YORK

CANTON COLLEGE OF TECHNOLOGY

Canton College of Technology, established in 1906, is a public institution dedicated to providing two- and four-year degrees in business, science, technical fields, public services and health services. It was the oldest two-year college in New York State and recently began offering four-year degrees.

The college is located on Route 68, west of the Village of Canton, on a 555-acre campus overlooking the Grasse River.

SUNY Canton has majors in the health and medical technologies, business and public service, engineering technologies, and liberal arts and sciences. Bachelor degree programs (4-year) provide a well-rounded education with a focus on technical expertise and practical experience. The associate degree programs (2-year) are designed to prepare students for employment or transfer into a bachelor's program. Certificates (1-year) lead directly to employment after a one-year program of study.

Southworth Library is located at the center of the campus. The library has holdings of more than 40,000 books, 6,000 bound periodicals, 3,000 reels of microfilm, and 400 subscriptions. The library's collection emphasizes areas complementing the curriculum. A visualtek and optiscope are maintained for visually impaired students. The library also participates in On-Line Library Center Inc., a computerized database and network for shared library functions.

The Supervisory Effectiveness Institute designs workshops and seminars which enhance the professional and personal productivity of management-level employees and their

employers. Established in 1985, the institute has served over a thousand private sector managers.

The college offers a range of non-credit courses through the Office of Continuing Education and Community Service.

3.2 Colleges and Technical Schools, (Two-year Programs)

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY, RANGER SCHOOL

The New York State Ranger School, established in 1912, is a unit of the State University of New York College of Environmental Science and Forestry at Syracuse. Students at the ranger school earn an Associate in Applied Science (AAS) degree in forest technology or surveying.

The Ranger School is located in the Adirondack Hamlet of Wanakena on the bank of the Oswegatchie River near the inlet of Cranberry Lake. 2,800 acres of the James F. Dubuar Forest, as well as portions of the New York State Forest Preserve surround the school. It is by far the oldest forest technology program in the country and has nearly three thousand alumni.

The curriculum in forest technology is a 1-1 design. During the first year a student attends any college of his or her choice, completing courses of English, biology, math, economics and electives to total 30 credit-hours. Only the second year is spent at Wanakena in a concentrated study of forest technology or surveying. Each student is required to take Standard First Aid and the core exam of the Certified Pesticide Applicator series.

The school library contains highly specialized materials pertinent to the curriculum.

Graduates of the ranger school are employed all over the country by government forestry units, last resource agencies, private forestry enterprises, and surveying firms.

3.3 The Associated Colleges of the St. Lawrence Valley

The Associated Colleges of the St. Lawrence Valley was chartered by the Regents in 1970 to foster cooperative relationships among four distinct institutions:

- Canton College of Technology
- Clarkson University
- State University of New York at Potsdam
- St. Lawrence University

The consortium allows the pooling of institutional resources, making them available to over 13,000 students and 700 faculty. These include 900,000 library volumes, 600 special and cultural events, and over 80 departments from which to choose courses. For more information contact:

Associated Colleges of the St. Lawrence Valley
 Satterlee Hall
 SUNY Potsdam
 Potsdam, NY 13676
 (315) 267-3331

Labor & Employment

The labor force of St. Lawrence County has been characterized as conscientious and easily trained. In the following pages information will be presented on the County's labor force in detail.

In addition to employment and job market figures, information on wages and household income is provided.

1.0 LABOR FORCE

The labor force of an area includes the people holding jobs and those seeking employment: the employed and the unemployed. Persons under 16, retired persons, non-working students, institutionalized persons, and those not seeking employment do not contribute to the labor force.

AVERAGE MONTHLY LABOR FORCE STATISTICS (in thousands)								
Year	Employed		Unemployed		Civilian Labor Force		Unemployment Rate	
	SLC	NYS	SLC	NYS	SLC	NYS	SLC	NYS
1981	38.0	7,400	4.0	612	42.0	8,012	9.6	7.6
1982	36.6	7,313	4.3	684	40.9	7,997	10.4	8.6
1983	38.3	7,363	4.1	688	42.5	8,051	9.7	8.6
1984	40.7	7,503	3.6	583	44.3	8,087	8.2	7.2
1985	40.1	7,765	3.6	544	43.6	8,309	8.2	6.5
1986	40.7	7,872	3.8	526	44.5	8,398	8.6	6.3
1987	39.9	8,077	3.3	412	43.2	8,489	7.5	4.9
1988	40.0	8,167	3.3	358	43.3	8,525	7.7	4.2
1989	40.8	8,238	4.5	442	45.2	8,680	9.9	5.1
1990	45.7	8,375	3.7	467	49.4	8,843	7.5	5.3
1991	46.4	8,086	5.1	636	51.5	8,732	9.9	7.3
1992	46.1	7,911	5.1	747	51.3	8,659	10.0	8.6
1993	46.4	7,973	4.5	677	50.9	8,651	8.9	7.8
1994	46.2	7,981	4.8	593	51.1	8,573	9.4	6.9
1995	45.6	7,955	4.3	538	49.8	8,493	8.6	6.3
1996	45.7	8,042	4.2	534	49.9	8,576	8.4	6.2
1997	47.0	8,267	4.1	567	51.1	8,843	8.1	6.4

1998	47.3	8,391	4.0	499	51.3	8,890	7.9	5.6
1999	47.0	8,423	4.3	459	51.3	8,882	8.4	5.2
2000	46.5	8,533	4.0	408	50.5	8,841	8.0	4.6

Source: NYS Department of Labor

1.1 Quality of Labor Force

The St. Lawrence County Office of Economic Development works with local employers on a daily basis through its administration of the Workforce Investment Act of 1998 (WIA) programs and the Industrial Development Agency. The WIA operations assist businesses with their employment and training needs and the Industrial Development Agency assists with their financial needs. Employers throughout St. Lawrence County have found the local labor force to be exceptional; their employees are productive, eager to learn, and have low absenteeism. The Office of Economic Development can put you in contact with employers who can share their experiences and knowledge of the labor force in the County. When asked to highlight positive qualities of the local labor force, private employers in the County mentioned:

- Mechanical aptitude
- Good work ethic and attitude
- Easily trained
- Low absenteeism

1.2 Employment Composition

St. Lawrence County residents are primarily employed in non-manufacturing industries. In 2000 manufacturing employment accounted for approximately 19% of the civilian labor force. Government, service industry, and retail trade made up most of the non-manufacturing employment.

The following table presents a breakdown of the employed labor force of St. Lawrence County, along with their approximate earnings, by industry. The last two columns are calculated from information provided by the US Department of Commerce; the average annual pay is determined by taking the ration of annual payroll over the number of employees that year. (Government employees, railroad workers, and self-employed persons are not included in these data.)

ST. LAWRENCE COUNTY ANNUAL EMPLOYMENT AND PAYROLL BY INDUSTRY, 2000				
Industry	Number of Companies	Number of Employees	Average Annual Pay	Total Payroll (in thousands)
Agriculture, Forestry	46	1,925	\$4,299	\$8,276

& Fishing				
Construction	214	1,579	33,910	53,544
Finance, Insurance & Real Estate	162	970	23,812	23,098
Manufacturing	105	5,225	45,385	237,138
Retail & Wholesale Trade	747	8,249	15,016	123,863
Services	871	9,010	22,769	205,150
Transportation & Public Utilities	130	952	35,818	34,099
All Others	2	N/A	N/A	17,737
Government	70	10,676	35,605	380,118
All Industries	2,277	27,910	\$25,185	\$702,902

Source: NYS Department of Labor

1.3 Weekly Wage Information

The following labor market assessment was made in 2001 by the New York State Department of Labor. Only some of the representative occupations are listed.

ANNUAL WAGES, NORTH COUNTRY, 2001		
Occupation	Median Annual Wage*	Wage Range
Auto Mechanic	\$20,704	\$19,031 - 27,078
Carpenter	28,495	20,880 - 40,240
Electrician	40,025	32,110 - 56,790
Electronics Technician	32,199	19,714 - 50,700
Farm Worker, Dairy	12,114	12,380 - 14,545
Janitor	18,919	15,501 - 25,085
Logger	28,948	25,501 - 33,796
Machinist	26,848	24,725 - 33,093
Painter	25,143	22,212 - 31,060
Plumber	47,005	32,909 - 63,068
Registered Nurse	39,503	35,488 - 47,645
Secretary	22,291	17,354 - 30,950
Secretary, Legal	34,321	23,353 - 42,819
Teacher, Elementary	42,119	31,483 - 59,030
Teacher, Secondary	37,938	30,320 - 51,068
Truck Driver, Delivery	21,588	15,977 - 31,016
Truck Driver, Heavy	25,366	21,654 - 35,983
Welder, Combination	27,140	25,571 - 33,575

*The figures are based on Unemployment Insurance beneficiaries

Source: NYS Department of Labor



2.0 INCOME

2.1 Personal Income

Total personal income includes all sources: net labor and proprietor's income, property income, and transfer payments.

TOTAL PERSONAL INCOME, COUNTY AND STATE (1998)
(numbers in millions)

	Total	Net Labor And Proprietors' Income	Property Income	Transfer Payments
St. Lawrence County	\$ 2,052.6	\$ 1,248.0	\$ 325.4	\$ 479.1
New York State	583,061.2	383,658.2	105,430.9	93,972.1

Source: NYS Statistical Yearbook 2001

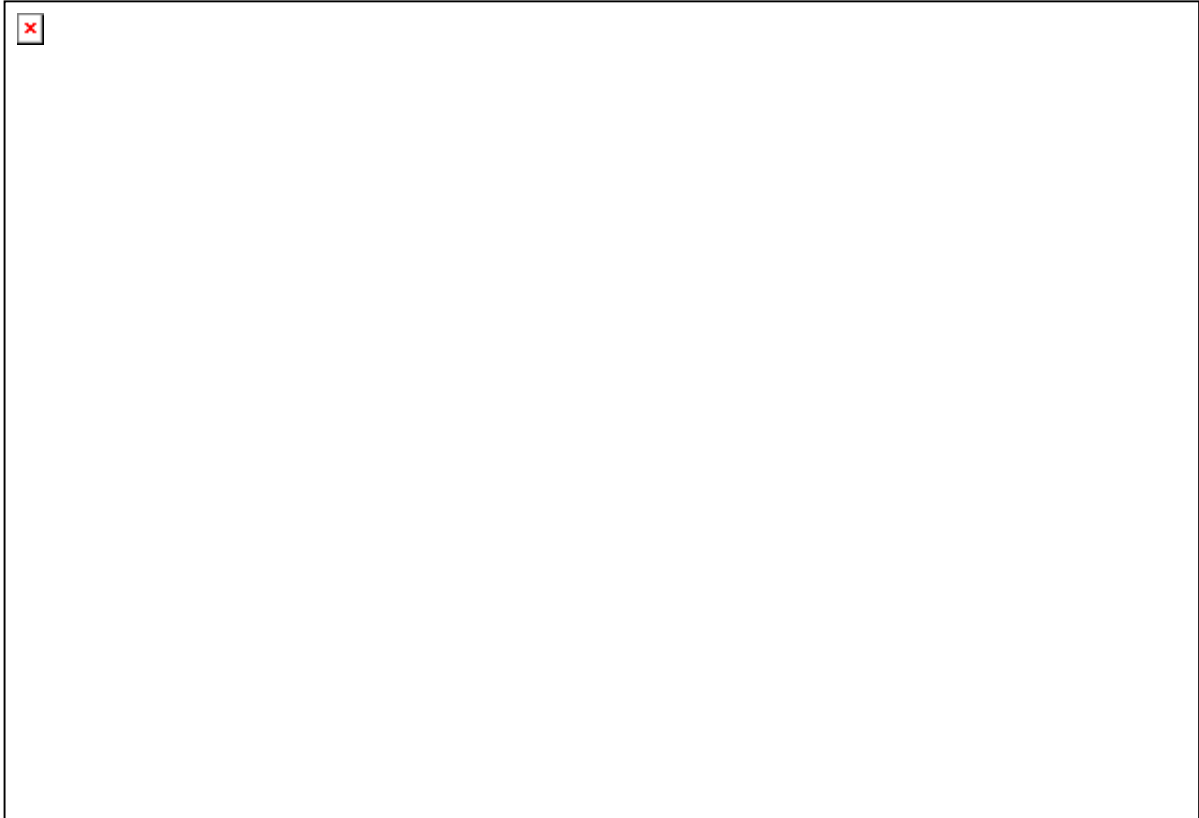
2.2 Labor and Proprietor's Income

LABOR AND PROPRIETORS' INCOME EARNED (1998)	(in millions and percentage)	
Industry	St. Lawrence County	New York State
Farms	\$ 17.2 1.3%	\$ 551.4 0.1%
Manufacturing	279.5 20.9%	50,071.7 11.6%
Mining	17.8 1.3%	418.5 0.1%
Construction	65.7 4.9%	15,666.0 3.6%
Wholesale and Retail Trade	161.2 12.1%	51,746.2 11.9%
Finance, Insurance and Real Estate	31.5 2.4%	89,366.4 20.7%
Transportation and Utilities	66.6 5.0%	25,886.2 6.0%
Services	279.8 21.0%	134,313.2 31.1%
Other	10.4 0.8%	1,854.3 0.4%
Government	404.2 30.3%	62,697.6 14.5%

Source: NYS Statistical Yearbook 2001

2.3 Per Capita Income

The following graph represents the growth trends of per capita personal income in St. Lawrence County and New York State for the period of 1990-1998. During this period, St. Lawrence County's per capita income grew by 36.47 percent while the state's increased by 37.71 percent.



Source: NYS Statistical Yearbook 2001

Industry

Industry in St. Lawrence County has always involved and been shaped by agriculture and the natural resources found throughout the county. These resources include abundant supplies of water, land suited for dairy farming, timber, zinc, and talc. The development of the agricultural, lumber, paper, and mining industries was natural for this area.

Approximately 7% of the workers in the County are directly employed on farms. While the absolute numbers of farms and milk cows have been decreasing over the past 40 years, the amount of milk produced has increased tremendously due to improved breeding and management techniques.

Farming alone represents a total contribution to the economy of approximately \$168,921,000 per year. Lumber and wood products manufacturing generates another \$11,080,000 of impact and food processors contribute \$31,300,000, bringing the total impact of agricultural-related industries in the County economy to \$211,031,000 or 11% of personal income.

Another industry that has adapted to conditions in the North Country is the generation of electric power: St. Lawrence County's electricity is almost entirely hydroelectrically generated. Almost 1000 megawatts of power are produced annually from the County's rivers.

Aluminum manufacturing and electronics assembly industries have also joined the local economy and taken advantage of the excellent business climate of St. Lawrence County.

Industry employment data on the next several pages is from the Bureau of Labor Statistics for 2000.

1.0 AGRICULTURE

Farming in St. Lawrence County involved some 1,363 business locations and generated sales of \$89,078,000 million in 1997, not including forestry sales. This equaled 4.8% of the County's total personal income for that year, a very substantial number that does not include any of the myriad support industry and value-added enterprises spawned by farming.

St. Lawrence County was ranked as the nation's 33rd largest milk producing County in a May 2000 analysis by Dairy Business magazine. It was also viewed as the third best location in the U.S. for dairying in a February 2000 survey by Dairy Today magazine. Moreover, the County represented the nation's tenth largest acreage in corn silage and 14th largest in hay acreage in 1997.

The information presented here is primarily from the most recent New York State Census of Agriculture, conducted in 1997.

Agricultural Summary	1987	1992	1997
Total number of Farms	1,602	1,367	1,363
Percentage of land area used for farming	26%	23%	23%
Cropland harvested (acres)	173,800	164,320	165,579
Total Value of all Farm Products	\$80,583,000	\$94,173,000	\$89,078,000
Total Value of all Dairy Products	\$67,132,000	\$78,220,000	\$73,801,000
Total Economic Impact*	\$209,516,000	\$244,849,000	\$231,602,800
Farms	1987	1992	1997
Number of Farms	1,602	1,367	1,363
Number with sales of \$10,000 or more	952	822	742
Number with sales of \$100,000 or more	244	301	264
Number selling Dairy Products	826	661	536
Value of Land and Buildings	\$216,475,056	\$239,769,000	\$262,536,000
Value of Machinery and Equipment	\$62,833,644	\$70,317,000	\$65,775,000
Average Farm Size (acres)	285	290	291
Average Harvested Acreage	116	131	139
Average Number of Dairy Cows	51	58	69
Average Value of Land and Buildings	\$135,128	\$175,269	\$192,334
Average Value of Machinery and Equipment	\$39,222	\$51,590	\$48,187
Crops Harvested (acres)	1987	1992	1997
Corn and Grain	5,810	5,664	5,894
Corn for Silage	28,232	30,317	32,606
Hay	142,220	132,472	135,106
Vegetables harvested for sale	170	251	261
Land in Orchards	83	140	76
Nursery and Greenhouse Products	26	N/A	375
Livestock (number)	1987	1992	1997
Milk Cows	45,876	41,899	40,567
Heifers and Heifer Calves	35,240	33,014	31,749
Steers, Steer Calves, Bulls, and Bull Calves	3,981	3,847	3,403
Beef Cows	2,273	3,218	4,176

Hogs and Pigs	2,333	1,653	1,587
Sheep and Lambs	1,781	2,180	2,277
Chickens (3 months and older)	11,195	3,002	3,741

Source: 1997 Agricultural Census

1.1 Agricultural Districts

There are seven agricultural districts in St. Lawrence County. Agricultural districts enjoy special zoning and programs designed to assist resident farms, and must be approved by the County Board of Legislators.

Agricultural District	Acreage
#1 - Fowler, Gouverneur, Rossie areas	31,735
#2 - Canton area	7,209
#3 - Stockholm area	57,198
#4 - Hammond, Morristown, and Oswegatchie areas	76,310
#5 - Madrid, Lisbon, Waddington, Louisville, Norfolk, West Potsdam, West Canton, and Oswegatchie areas	214,149
#6 - Depeyster and Macomb areas	70,729
#7 - DeKalb and Hermon areas	61,162

Source: St. Lawrence County Cooperative Extension

1.2 Additional Agricultural Industries

The County's cheese, beef, and maple syrup operations illustrate the secondary impact of farms in the area. St. Lawrence County's farms supply the resources for a variety of secondary industries which employ people and in turn create a multiplier effect in retail and commercial businesses. (Figures are for 1997)

Cheese and Yogurt

Total Number of Employees: 524

Annual Payroll: \$ 11,834,000

Milk intended for purposes other than fluid milk consumption is one of St. Lawrence County's primary raw material resources. Every year, hundreds of millions of pounds of milk are processed by the area's seven cheese and yogurt plants.

Maple Syrup

Maple Producers : 175 producers

Total Syrup Produced: 45,000 gallons

St. Lawrence County is also a major producer of maple syrup. Much of the syrup is produced and processed on dairy farms as an off-season occupation. The majority of the crop, however, is sold outside the County.

Source: St. Lawrence County Maple Syrup Producers Association

2.0 LUMBER AND LOGGING INDUSTRY

Total Number of Employees: 103

Annual Payroll: \$ 3,378,000

St. Lawrence County has large forest resources, making the importance of the logging industry a natural development. Of the 1,771,500 acres in the County, 1,106,300 acres (or 63% of the County's land area) are classified as timberland. An additional 140,500 acres are considered productive-reserved forestland.

St. Lawrence County timber species include a variety of hardwoods such as maple, birch, cherry, beech, and some oak and softwoods such as pine, hemlock, and spruce. The timber resources in St. Lawrence County are harvested by a logging infrastructure which focuses its activities primarily in the Adirondack foothill and mountain section of the County. The harvested timber has many destinations, including pulp mills outside of the County. Approximately 40% of the harvest is directed to the County's 9 major or numerous minor sawmills.

Timberland		Types of Wood	
Non-stocked areas	0 acres	Northern Hardwood	886,200 acres
Seedlings and saplings	210,300 acres	Softwoods (pine, hemlock, spruce)	175,300 acres
Poletimber stands	346,700 acres	Oak	44,800 acres
Sawtimber stands	549,300 acres		
Total	1,106,300 acres	Total	1,106,300 acres

Source: Forest Statistics, United States Forest Reserve

3.0 PAPER INDUSTRY

Total Number of Employees: 425

Annual Payroll: \$ 25,834,000

In St. Lawrence County there are a total of four paper mills. All of these paper mills operate on secondary fiber and virgin pulp. The latter is produced at mills outside of the County. In terms of employment and taxes, these paper mills are extremely important to the County economy.

4.0 MINERAL EXTRACTION AND PRIMARY METALS INDUSTRIES

Total Number of Employees: 2,812

Annual Payroll: \$ 151,628,000

There are three main types of mineral extraction and primary metals industries in St. Lawrence County: Aluminum, Zinc, and Talc. Two aluminum reduction plants and a major fabrication plant utilizing aluminum to make automobile parts are located in the

Massena area. Industries which focus on the mining of zinc and talc are centered in the Gouverneur area.

5.0 ELECTRONICS INDUSTRY

Total Number of Employees: 533

Annual Payroll: \$ 13,709,000

Over the last ten years a number of electronic assembly industries have located in the industrial park in the Ogdensburg area. Most of the electronics assembly plants are branches of Canadian operations.

6.0 INSTITUTIONAL INDUSTRY

Total Number of Employees: 11,165 Annual Payroll: over \$ 317,706,000

St. Lawrence County has a number of large institutional employers. There are three State correctional facilities, one State psychiatric center, and five colleges in the County.

Institutions	Number Employees	of Annual Payroll
Correctional Facilities	1,339	\$55,412,000
Psychiatric Center	528	\$20,788,000
Hospitals	1,859	\$50,652,000
Nursing & Personal Care Facilities	953	\$17,203,000
Private Colleges & Universities (1999)	1,482	\$51,974,000
Public Colleges & Universities	1,188	N/A
Public Grade Schools	3,773	\$120,985,000
Private Grade Schools	43	\$692,000

7.0 ENERGY SUPPLY INDUSTRY

Total Number of Employees: 326

Annual Payroll: \$ 17,358,000

St. Lawrence County is the site of the Robert H. Moses Power Dam in Massena, one of the New York Power Authority's major hydroelectric dams. It has a generating capacity

of 800 megawatts, a significant portion of which is consumed by the aluminum industry near Massena. The Power Authority itself is a major employer in the County.

Niagara Mohawk Power Corporation, the major northern New York utility, also has extensive hydro-generation facilities in the County. At various locations along the Oswegatchie, Raquette, and St. Regis Rivers, Niagara Mohawk operates more than 20 generating stations, each producing between 0.6 and 28 megawatts of power for a total capacity of over 200 megawatts. There are also at least seven independently-owned hydro-electric generation facilities in St. Lawrence County.

Natural gas is also a major fuel source for North Country residents and businesses. The St. Lawrence Gas Company is supplied directly from the Trans-Canada Pipeline. Several industries in the Massena area, including a major aluminum foundry, rely on large quantities of natural gas as an industrial fuel.

8.0 TOURISM

While not as well known as the surrounding regions of the Thousand Islands or Lake Placid, St. Lawrence County has a significant tourism trade. In fact, many visitors prefer the quiet and less crowded aspects of the County. According to the St. Lawrence County Chamber of Commerce, visitors who come to ski, fish, and hunt in the county generate some \$54 million for residents and contribute about \$1.6 million in sales tax revenues.

One indicator of the tourism industry is the hotel and motel industry. In 2000, there were 43 hotels and other lodging places in the County, which together employed more than 372 people and generated an annual payroll of \$4,076,000.

9.0 RETAIL TRADE

There are at least four communities in St. Lawrence County which provide major shopping opportunities for both residents and visitors. Seven principal shopping centers serve the five most populous communities in the County. One of them, the St. Lawrence Centre mall in Massena, also attracts a large number of Canadian consumers. These shopping centers provide a variety of specialized merchandise to county residents.

Shopping centers provide only a portion of the shopping and commercial employment opportunities in the County's retail industry. All five major population centers have a sizeable downtown commercial district. Individual districts are difficult to gauge, but overall it is estimated that 7,405 people are employed in the County's 647 retail establishments, generating a combined annual payroll of about \$103,294,000.

Government Regulations

The following section of the County Profile is designed for promoting and developing business and industry in St. Lawrence County. It will acquaint you with the elected officials representing our communities on the local, state, and federal level. Also, detailed information is presented concerning the financial and technical services available to new and established businesses throughout the area. Some industrial properties will be identified.

The St. Lawrence County Office of Economic Development can assist your business with its employment needs by providing hiring incentives through the Workforce Investment Act of 1998 program. Loan information, financial services, and technical expertise are available through the Office of Economic Development. These combined services are provided by experienced staff who are ready to develop and customize programs not only for established St. Lawrence County businesses, but also for firms considering the County as a location.

1.0 GOVERNMENT

1.1 County Government

The governing body of St. Lawrence County is the County Board of Legislators, made up of 15 elected legislators. It is distinct from the 32 elected Town Supervisors. The board elects a Chairman from among its members, who serves as the chief elected officer of county government.

Chairman

Alex A. MacKinnon
St. Lawrence County Courthouse
48 Court Street
Canton, NY 13617
(315) 379-2276

County Administrator

Donald R. Brining
48 Court Street
Canton NY 13617
(315) 379-2276

1.2 Elected Officials

St. Lawrence County falls into Districts 118 and 122 of the New York State Assembly, Districts 46 and 47 of the New York State Senate, and District 24 of Congress.

New York State Assembly Members

The Honorable Darrell Aubertine
Legislative Office Building
Room 529
Albany NY 12247
(518) 455-5545

18th Assembly District

200 Washington Street
Watertown, NY 13601
(315) 786-0284

22nd Assembly District

The Honorable Dierdre Scozzafava
Legislative Office Building
Room 532
Albany NY 12248
(518) 455-5545

93 East Main Street
Gouverneur NY 13642
(315) 287-2384

New York State Senator

46th Senate District

The Honorable James Wright
Legislative Office Building
Room 814
Albany NY 12247
(518) 455-2346

318 Washington Street
State Office Building
Watertown NY 13601
(315) 785-2430

New York State Senator

47th Senate District

The Honorable Raymond Meier
Legislative Office Building
Room 944
Albany NY 12247
(518) 455-3334

60 Main Street
Massena NY 13662
(315) 769-7932

United States Congressman

24th Senate District

The Honorable John M. McHugh
Rayburn House Office Building
Room 2441
Washington DC 20515
(202) 225-4611

Key Bank Building
Suite 404A
200 Washington Street
Watertown NY 13601
(315) 782-3150

United States Senators

The Honorable Charles Schumer
United States Senate
Hart Senate Office Building
Room 313
Washington DC 20510
(202) 224-6542

The Honorable Hillary Rodham Clinton
United States Senate
Dirksen Building B40, Suite 6
Washington DC 20510
(202) 224-4451

1.3 Customs

The U.S. Customs offices are located at both the Massena-Cornwall International Bridge, which joins Cornwall, Ontario with Massena and the Ogdensburg-Prescott Bridge which joins Prescott, Ontario with Ogdensburg. The duties and responsibilities of a U.S. Customs Agent include assessing and collecting import revenues; processing mail, baggage, cargo, and persons entering this country; and enforcing quotas and other import-export restrictions. The U.S. Customs office is responsible for the movement of merchandise in and out of the United States. Customs bonds may be required of anyone involved in the importation of merchandise. Custom form 4811 must be completed for the handling and entry of merchandise.

Bonded warehouse regulations are also administered by U.S. Customs. Information regarding the types of customs-bonded warehouses, their locations, and their operations can be obtained from the district office in Ogdensburg.

U.S. Offices

U.S. Customs District Office
127 North Water Street
Ogdensburg NY 13669
(315) 393-0660

U.S. Customs Service
Seaway International Bridge Approach
Rooseveltown NY 13683
(315) 769-3091

Canadian Offices

Consulate General of the USA
2 Terrasse Dufferin Place
Quebec, Canada G1R 4N5
(418) 692-2095

360 University Avenue
Toronto, Ontario M5G 1S4
(416) 595-1700

1.4 Immigration and Naturalization

General Border Crossing

Citizens of the United States, Canada and the Commonwealth, and permanent resident aliens and landed immigrants in Canada, may cross the U.S.-Canadian border without passport or visa. However, identification such as a birth certificate or driver's license should be carried. Landed immigrants will need to provide evidence of citizenship status.

Management Personnel

Key personnel of Canadian companies whose services are used temporarily for subsidiaries in St. Lawrence County can apply for B-1, L-1, and H-1 status. The

validity of the status is determined by the U.S. Immigration office at the port of entry and upon approval of the application.

Offices

US. Immigration and Naturalization Service Local Office
International Bridge Approach
Roosevelt town NY 13683
(315) 764-0310

U.S. Immigration and Naturalization Service District Office
Ogdensburg Bridge Approach
Ogdensburg NY 13669
(315) 393-0770

2.0 TAX REQUIREMENTS

Businesses and residents in St. Lawrence County are subject to Federal, State, and local regulations and taxing.

2.1 Federal Requirements

Federal Income Tax	
Sole Proprietorship	Schedule C or F, Form 1040
Limited Partnership	Schedule K-1, Form 1065
Corporation	Schedule K-1, Form 11205 or Form 1120

Withholding of Federal Income Tax from Wages
Form W-4, "Employer Withholding Allowance Certificate"

Federal Unemployment Insurance and Tax Depositing
Form 508, "Federal Unemployment Tax Deposit"

Other Requirements
Social Security Taxes and Workers' Compensation

Offices

Tax Assistance and Information: Tax Forms and Publications:
Internal Revenue Service 1-800-829-3676 1-800-829-1040

Social Security Administration	The Worker's Compensation Board
818 Commerce Park Drive	333 E. Washington Street
Ogdensburg, NY 13669	Syracuse, NY 13202
(315) 393-1417	(315) 428-4454

2.2 State Requirements

State Income Tax	Corporate Franchise Tax
Form TSB-M-85(8)-1	Form TSB-M-85(8)C

Withholding of State Income Tax from Wages

Form W-4: "Employer Withholding Allowance Certificate"

Form IT-2100: "Employer's Withholding Tax Instructions"

Form IT-2100.1: "New York State Withholding Tax Tables and Methods"

State Tax Depositing

Contact the New York State Department of Taxation and Finance

Other Requirements

State Unemployment Insurance

Offices

NYS Department of Taxation and Finance NYS Department of Labor

Tax Assistance and Information

W.A. Harriman Campus

Albany, NY 12227-0125

(518) 438-8581

In NY: 1-800-225-5829

Unemployment Insurance Division

Liability and Determination Section

35 Glenn Street

Massena, NY 13662

(315) 769-3596

2.3 County Requirements

Local, County, and school taxes are based on a percentage of the assessed value of real property and depend on local rates.

Sales and Use Taxes

The New York State sales and use tax is 4% while the St. Lawrence County rate is 3%, making an effective rate of 7 percent. These taxes apply to:

- sales and rental of tangible property
- enumerated services
- consumer's utility charges
- hotel occupancies
- restaurant meals
- admission charges and club dues

Office

St. Lawrence County Department of Real Property

St. Lawrence County Court House

48 Court Street

Canton, NY 13617

(315) 379-2272

Real Property

City, County, and school taxes are based on a percentage of the assessed value of the real property and depend upon local tax rates.

REPRESENTATIVE TAX RATES

Town or City	2002 Town and County Taxes		2001 School District Taxes
	Tax Rate	Equalization	
Town of Canton	7.8941	100.00	18.6618
Outside Village	7.8941	100.00	18.6618
Inside Village			
Town of Gouverneur	7.8876	100.00	15.1271
Outside Village	7.8876	100.00	15.1271
Inside Village			
Town of Massena	7.9035	100.00	16.5738
Outside Village	7.9035	100.00	16.5738
Inside Village			
City of Ogdensburg	7.8876	100.00	18.7550
Town of Potsdam	7.8876	100.00	22.0556
Inside Village of Potsdam	7.8876	100.00	18.0060
Inside Village of Norwood			

* Per thousand of assessed value

2.4 Other Requirements

Business Permits and Regulatory Assistance

The Office of Business Permits and Regulatory Assistance (OBPRA) helps new and expanding businesses with New York State permit or licensing requirements. As part of its service, OBPRA has published a Directory of Permits which provides useful information about over one thousand State agency permits.

Licensing

Licenses are grants of the authority of the state and its political subdivisions to individuals or others to carry on certain activities. For complete information about licensing requirements, businesses should consult the OBPRA and all local governments where the business will be located and operated. In addition, the St. Lawrence County Planning Office can assist with licensing applications.

Office

NYS Office of Business Permits and Regulatory Assistance
 Alfred E. Smith Office Building, 17th Floor
 Albany, NY 12225
 (518) 474-8275
 In NY: 1-800-342-3464

3.0 GOVERNMENT ASSISTANCE

3.1 St. Lawrence County Office of Economic Development

Workforce Investment Act of 1998 and the Workforce Investment Board

The St. Lawrence County Office of Economic Development administers a variety of employment and training programs under provisions of the Workforce Investment Act of 1998 (WIA). The WIA works hand in hand with local employers to increase their employment opportunities in St. Lawrence County. New and expanding businesses throughout St. Lawrence County can substantially reduce their training costs through participation in the WIA On-The-Job Training (OJT) programs. Through an OJT contract, the eligible individual is hired by the employer, trained on the job, then maintained in full-time, non-seasonal employment. The employer may receive up to 50% reimbursement for the wages paid to the trainee during the training period. Payments are made directly to the employer, continue on a monthly basis during the duration of the contract, and are meant to reimburse the employer for the costs associated with training dislocated workers and/or economically disadvantaged persons.

Occupational training is provided to eligible participants through the classroom/vocational training component of WIA. Technical skills training is conducted at local educational facilities including, but not limited to, the area BOCES centers. Training is provided in many occupational demand categories, including computer programming and operations, secretarial skills training, and electronic, electrical and engineering technology. Through the Office of Economic Development, job-specific classroom training can be provided by educational institutions at no cost to eligible workers.

In addition, WIA program operations include the design and development of customized training programs. The customized training may occur at the employer's site or may be provided by a training vendor able to meet the employer's requirements. The financial and technical assistance for this customized training is provided by the WIA program.

The St. Lawrence County Workforce Investment Board (WIB) cooperates with the County in directing Workforce Investment Act (WIA) programs administered by the County's Office of Economic Development. The WIB establishes policies under which employment and training programs are delivered to unemployed, underemployed, and economically disadvantaged County residents. To ensure that those most in need of services receive appropriate training the WIB identifies the specific training programs most likely to lead to unsubsidized employment for participants. The WIB is responsible for and devotes its energies to bringing the needs and resources of private enterprise to deal cooperatively with the problems of unemployment and industrial dislocation in St. Lawrence County.

The WIB is comprised of executives from both large and small businesses, plus representatives from labor, education, government, service and community based organizations in St. Lawrence County. The majority of the 23 members are representatives from private industry.

Office

St. Lawrence County Office of Economic Development
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

3.2 St. Lawrence County Industrial Development Agency

The St. Lawrence County Industrial Development Agency (IDA) has a long-standing record of active support for economic development efforts in St. Lawrence County. During the past 26 years, the IDA has authorized the issuance of over \$532 million in tax-exempt and taxable Industrial Development Bonds (IDB's) to improve economic opportunities throughout St. Lawrence County.

Working in conjunction with the county Office of Economic Development, the Industrial Development Agency also assists firms in preparing suitable loan applications and submitting them to appropriate government agencies and banks. The office acts as liaison with banks, government agencies and regulatory commissions to coordinate and expedite a business project. The office will also work on behalf of investors to obtain tax abatements and other business incentives from local municipal jurisdictions.

The Industrial Development Agency can also assist firms in locating excellent business sites. The IDA owns and operates buildings at the Technology Development Center in Potsdam and at the Industrial Parks in Massena and Gouverneur. For additional information about any of these properties refer to 4.0 Industrial Sites and Office Parks in this section.

Office

St. Lawrence County Industrial Development Agency
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

3.3 Additional Business Assistance

St. Lawrence County Revolving Loan Fund

The Revolving Loan Fund (RLF) provides monies for the purchase of fixed and non-fixed assets and for working capital.

Businesses that may be eligible for these funds include manufacturing, assembly, and warehousing companies. Firms that provide products or services not available to St. Lawrence County-based businesses may also be eligible. Funding is limited to 30% of

the project or \$150,000, whichever is less. The interest rate is $\frac{1}{2}$ of prime plus 1% or 5%, whichever is greater. The loan rate will be fixed at closing.

Office

St. Lawrence County Industrial Development Agency
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

St. Lawrence County Micro-enterprise Revolving Loan Fund

The Micro-enterprise Revolving Loan Fund (MRLF) provides monies to low and moderate-income persons in St. Lawrence County to start or expand micro-enterprise businesses. Low interest loans are available for machinery and equipment, property improvements, inventory, and some working capital.

The MRLF may lend from \$1,000 up to a maximum of \$20,000. The terms of each loan are determined by a financial analysis and the particular needs of the project.

Office

St. Lawrence County Local Development Corporation
80 State Highway 310, Suite 6
Canton, NY 13617
(315) 379-9806

Village of Potsdam Micro-enterprise Revolving Loan Fund

The Micro-enterprise Revolving Loan Fund (MRLF) provides monies to low and moderate-income persons in Potsdam to start or expand micro-enterprise businesses. Low interest loans of up to \$25,000 are available for machinery and equipment, property improvements, inventory, and some working capital.

Office

Village of Potsdam
Civic Center, Box 1568
Potsdam, New York 13676
(315) 265-1670

Community Loan Funds

A number of the communities within St. Lawrence County provide loans to businesses for a variety of purposes. For specific information call the phone numbers listed below for each program:

Ogdensburg Growth Fund
City of Ogdensburg
City Hall
Ogdensburg, NY 13669
(315) 393-7150

Oswegatchie Revolving Loan Fund
Town Hall, State Street
Heuvelton, NY 13654
(315) 393-2124

Town of Norfolk
Community Development Office
Main Street
Norfolk, NY 13667
(315) 384-3026

Regional Revolving Loan Trust Fund

The Regional Revolving Loan Trust Fund established by the North Country Alliance provides loans for short- and medium-term working capital, real estate, and machinery and equipment. Businesses that may be eligible for these loan funds include a business which is located in one of the following counties: Clinton, Essex, Franklin, Lewis, Jefferson, and St. Lawrence; has 100 or fewer full-time employees and has a minimum equity interest in the business of at least 10%. Funding is limited to 50% of the total project cost or \$150,000, whichever is less. There is a \$75,000 limit on working capital. The interest rate could range from a minimum of 5% to a maximum of a floating prime rate plus 1%. Fees include a \$100 application fee and a commitment fee equal to the greater of \$250 or ½% of the loan principal.

Office

St. Lawrence County Office of Economic Development
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

Greater Massena Economic Development Fund

The Greater Massena Economic Development Fund (GMEDF) provides monies in the form of loans for the purchase of fixed assets. Businesses eligible for GMEDF funds include manufacturing, assembling, and processing firms.

Participation is limited to 30% of the project cost or \$200,000, whichever is less. The loan rate is ½ of prime plus 1%, with a floor of 5% and a ceiling of 10%. The interest rate is fixed at time of closing.

Office

St. Lawrence County Industrial Development Agency
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

3.4 New York State Business Incentives

Low Cost Financing Assistance

Through the Empire State Development Corporation (ESDC), New York State provides direct loans or interest subsidy grants for the acquisition, renovation, or improvement of real estate, as well as the acquisition of machinery and equipment. Direct loans are well below market rates and interest subsidy grants reduce the cost of borrowing from a

conventional state lender. In addition, projects may be partially or wholly financed with Industrial Development Agency (IDA) bonds.

Training Assistance

New York State can provide financial training assistance to partially defray the costs of upgrading skills or training new employees. Grant funds are available through ESDC's Regional Economic Development Partnership Program (REDPP) and the Department of Economic Development Skills Training Program.

Manufacturing Productivity Improvement

Two programs, the Manufacturing Extension Partnership (MEP) and the Industrial Effectiveness Program (IEP), provide assistance to small and medium-sized New York State manufacturing firms in undertaking productivity and other operational improvements needed to remain competitive and profitable. Funds are available for both preliminary and full productivity assessments.

State and Local Tax Credits

A tax credit of up to 5% of new capital invested in buildings and/or depreciable tangible personal property used primarily in production is available in New York State. An employment incentive credit of 1.5% to 2.5% for the same new capital investment is deductible by corporations that meet a minimum employment standard. In addition, local real property taxes may be reduced significantly through the assistance of the IDA.

Empire Zone Benefits

Certified businesses that plan on hiring new workers, building, or making an investment in machinery in either Potsdam or Ogdensburg may be eligible for a combination of State tax credits and benefits through the Empire Zone Program. The benefits include:

- **QEZE Sales Tax Exemptions:** Qualified Empire Zone Enterprises (QEZEs) are granted a 10-year exemption from State sales tax on purchases of goods and services (including utility services) used predominantly in an Empire Zone.
- **QEZE Credit for Real Property Taxes:** Qualified Empire Zone Enterprises are allowed a refundable credit against business or income tax equal to a percentage of real property taxes paid in the zone.
- **QEZE Tax Reduction Credit:** Qualified Empire Zone Enterprises are allowed a credit against business or income tax equal to a percentage of taxes attributable to the zone enterprise.
- **EZ Wage Tax Credit:** This credit is available for up to five consecutive years for companies hiring full-time employees in newly created jobs. For employees in special targeted groups, this credit equals \$3,000 per year, with a credit of \$1,500 per year for all other new hires.
- **EZ Investment Tax and Employment Incentive Credits:** Businesses that create new jobs and make new investments in production, property and equipment may qualify for tax credits of up to 19% of the company's eligible investment.
- **New Business Refund:** Businesses new to New York State are entitled to a 50% cash refund of unused EZ-WRC and ITC amounts. Other businesses may carry forward unused credits indefinitely.

- **Utility Rate Savings:** Special reduced electric and gas rates may be available through investor-owned utilities in New York State. Businesses that locate or expand their operations in an EZ may receive significantly reduced rates.
- **Zone Capital Credit:** A 25% tax credit against personal or corporate income taxes is available for contributing or purchasing shares in a zone capital corporation; or for a direct equity investment in a certified zone business; or for contributions to approved community development projects within an EZ.
- **Sales Tax Refund or Credit:** Purchases of building materials to be used for commercial or industrial real property located in an EZ are eligible for a refund or credit of NYS sales taxes. A similar refund or credit of local sales tax may also be available from the locality.
- **Real Property Tax Abatement:** EZs may offer tax abatements from an increased assessment, with the abatement value based on improvements to real property for up to 10 years. This holds true for up to seven years at 100%, decreasing over the last three years of the exemption.
Qualifications for some of the Empire Zone Program incentives listed above are based on business structure, job creation factors, company assets, wage compensation ratios, and corporate tax structure.

Office
 Empire State Development
 North Country Regional Office
 Dulles State Office Building
 317 Washington Street
 Watertown, New York 13601
 (315) 785-7907

3.5 Additional New York State Programs

Recycling Market Development

The recycling program is dedicated to raising the productivity and competitiveness of manufacturers by helping companies make capital and/or process improvements that yield less solid waste, enable the use of recovered materials as feedstocks, and facilitate market growth.

Ownership Transition Services

These services are available to help business owners prepare a succession plan to ensure that their businesses are perpetuated and their employees continue to have jobs.

Linked Deposit

The linked deposit program assists eligible businesses within the state to make investments and undertake projects that will contribute to improving their performance and competitiveness. The program provides businesses with affordable capital, based on bank loans at reduced interest rates which are subsidized by “linked” State deposits.

International Trade Development and Investment

Foreign direct investment assistance helps foreign investors establish a New York operation through direct investment and joint ventures or strategic alliances.

Office
Empire State Development
North Country Regional Office
Dulles State Office Building
317 Washington Street
Watertown, New York 13601
(315) 785-7907

4.0 INDUSTRIAL SITES AND OFFICE PARKS

4.1 Gouverneur

Constructed in 1984, the 60-acre Gouverneur Industrial Park is located on the border of the village and town on Factory Street. It is just one-fourth of a mile southeast of U.S. Route 11, within 30 miles of both the Watertown and Ogdensburg International Airports, 30 miles from the Ogdensburg-Prescott International Bridge, which connects the United States and Canada, and only 10 miles from Fort Drum, a U.S. Army base where first phases of a billion-dollar expansion are already underway. Of the available 60 acres, 21 acres are fully-serviced (water, sewer, gas, and electrical).

The park's infrastructure includes 6-inch water mains and 8-inch sewer mains, both services provided by the village. The electrical power is provided by Niagara Mohawk Power Corporation with 115,000 volt transmission line within close proximity and 13,200 volt distribution. Natural gas is available from St. Lawrence Gas Company.

The park is owned by the St. Lawrence County Industrial Development Agency, which coordinates park development activities with the Gouverneur Area Development Corporation. The park currently has one 15,000 square feet industrial building.

4.2 Massena

The Massena Industrial Park includes 55 fully serviced acres, zoned for light and medium industrial use. The park is located in the Village of Massena just off South Main Street (NYS Route 420).

The park's infrastructure includes 8- and 10-inch water mains and 8-inch sewer mains. Natural gas is available to the park from St. Lawrence Gas Company and electricity is supplied by the Massena Electric Department, a municipal power system. A Conrail line runs adjacent to the park and provides a direct link to national rail networks.

The Massena Industrial Park is owned by the Massena Industrial Development Corporation. The park has nine buildings with approximately 160,000 square feet of industrial space.

Office
Massena Industrial Development Corporation
41 Main Street
Massena, New York 13662
(315) 764-8484

4.3 Northern Advanced Technologies Corporation (NATCO) Business and Research Park

The Northern Advanced Technologies Corporation Business and Research Park opened in the fall of 1987 on 25 acres of land in the Village of Potsdam, adjacent to the campus of SUNY Potsdam.

Northern Advanced Technologies Corporation was developed and the facilities were designed to attract new businesses and branch operations of established United States and Canadian corporations to St. Lawrence County.

The park is hard-wired to the mainframe computers through the university systems. This provides access to state-of-art digital switching data network. Additional services available to park tenants include arrangements for consulting with local university faculty and access to million-volume library system, recreational facilities and other resources through the Associated Colleges of the St. Lawrence Valley.

Office
St. Lawrence County Industrial Development Agency
80 State Highway 310, Suite 6
Canton, New York 13617-1496
(315) 379-9806

4.3 Ogdensburg

Ogdensburg offers outstanding opportunities for business development with over 300 fully-serviced acres available in two industrial parks: Ogdensburg Commerce Park and Ogdensburg Heavy Industrial Park. Both of these parks are owned and operated by the Ogdensburg Bridge and Port Authority.

Ogdensburg Commerce Park
The Ogdensburg Commerce Park includes 75 fully-serviced acres located on the St. Lawrence River.

The park's special features include no property taxes for five years, no business income tax levied by the City of Ogdensburg and attractive lease and purchasing options.

An Ogdensburg location offers quick access to both United States and Canadian markets. The park is adjacent to and only five minutes from the Ogdensburg-Prescott International Bridge and Canada's highway 401.

Ogdensburg Heavy Industrial Park

The Ogdensburg Heavy Industrial Park includes 250 fully serviced acres zoned for medium and heavy industrial use.

The park's infrastructure includes 16-inch water mains, 8-inch sewer mains, and 30-inch storm mains. Natural gas is provided by St. Lawrence Gas Company which provides different rate structures depending on usage (see page 18 for information). Electricity is supplied by Niagara Mohawk Power Corporation which has a variety of rate structures (See Section: Public and Private Services, 1.1).

The park's special features include access to a number of transportation options including seaway services, and truck, air, and rail services. The park is located within a qualified Foreign Trade Zone and a designated Economic Development Zone that can provide business financial incentives which makes Ogdensburg an attractive location.

Office

Ogdensburg Bridge and Port Authority
Bridge Plaza
Ogdensburg, New York 13699
(315) 393-4080

Culture and Recreation

St. Lawrence County provides residents and visitors alike with a wealth of cultural, recreational, and sporting activities. Its unique location takes advantage of both the Thousand Islands and the Adirondack regions. Both of the County's international bridges, the Massena-Cornwall International Bridge and the Ogdensburg-Prescott International Bridge, afford a spectacular view of the St. Lawrence River and provide easy passage between the United States and Canada.

Throughout the year, a wide array of cultural events are presented by various organizations. These include both dramatic and musical theatre productions; choral, band, and ensemble concerts; and artists and speakers of national stature. In addition, more than 190 fairs, festivals, and other events are held throughout the County annually. There are also a number of museums where one can discover local history or view inspiring art.

St. Lawrence County allows for active recreation all year round. The large number of streams, rivers, and lakes in the county make it a haven for all types of fishermen in any season. During the winter months, a person can enjoy ice-skating at one of the local arenas or lakes, downhill skiing at nearby resorts, and cross-country skiing or snowmobiling on marked trails throughout

the County. The summer months find people swimming, picnicking, or simply enjoying the warm summer days. Campgrounds, hiking trails, and boating facilities abound.

The sports enthusiast can enjoy a variety of activities as either spectator or participant. Popular local sports include high school, collegiate, and community hockey and basketball. The County offers residents and visitors golf courses, tennis courts, baseball fields, and memberships at the local college and university athletic facilities on a subscription basis.

Recreation in St. Lawrence County can either be quiet and relaxing or fast and exciting: whatever your choice, the opportunities are there.

1.0 ST. LAWRENCE COUNTY ATTRACTIONS

1.1 Crane School of Music, SUNY Potsdam

The Crane School of Music was founded in 1886, and continues to be a major center of music education. The school's complex features a 1,400-seat concert hall, a 450-seat music theater, an extensive music library, 150 pianos, 6 organs, 3 harpsichords, and a unique collection of Renaissance string and wind instruments. Each season, the school's symphony orchestra, opera guild, ensembles, chamber groups, and choruses present over two hundred performances, the majority of which are free to the public.

1.2 Remington Art Museum, Ogdensburg

Frederic Remington is recognized as the foremost artist on the American Old West. A native of Canton, Remington moved West at the age of 19. The museum's collection includes 14 bronze pieces, 70 oils, 140 original watercolors, and several hundred pen and ink sketches by the artist. The museum also houses Frederic Remington's personal art collection, family memorabilia, and artifacts.

Located in the Hall Mansion in Ogdensburg, the museum also contains Belter furniture; the Sharp Collection of period glass, china, silver, and cameos; the Haskell Collection of 19th century American and European paintings; sculptures by Sally James Farnham; and works by Ogdensburg native artist Frank Rossel.

1.3 The Seaway Trail

The Seaway Trail is the longest recreational autoroute in the United States. It continues for 454 miles, from the Pennsylvania border at Ripley, New York, along the shorelines of Lakes Erie and Ontario, through Ogdensburg and Massena, and ending at the Seaway International Bridge in Rooseveltown, New York. In addition, the water route version of the trail may be navigated by boat.

The trail highlights some spectacular natural wonders: the Great Lakes Erie and Ontario, the St. Lawrence River, the world-renowned Niagara Falls, and the majestic Thousand Islands region.

The trail winds through farmlands, towns, and scenic landscapes. It passes 22 State parks and 10 counties. Situated along the trail are campsites, hiking trails, boating facilities, beaches, woodlands, and resorts. The Seaway Trail is an exceptional trip by either car or boat.

1.4 Robert Moses-Robert H. Saunders Power Dam, Massena

The Robert Moses-Robert H. Saunders Power Dam is located on Route 131 north of Massena. The New York Power Authority and the Ontario Hydro Company own the dam jointly. Visitors to the dam will discover how electric power is produced and see how 150 million gallons of water flowing through the dam every minute generate hydropower for residences in New York State and the surrounding areas. The dam generates a total of 1,600 megawatts of electric power, of which 800 is produced by the New York Power Authority.

1.5 Colonial Village Fun Park, Potsdam

The Colonial Village Fun Park opened on Route 11B just three miles east of Potsdam in July 2002 and features both indoor and outdoor activities for all age groups, including go-karts, mini-golf, arcade games, pony rides, a merry-go-round, miniature fire truck and hitchwagon rides, a bawl crawl, a sky-fighter ride, a cow belly jump, and a hiking trail. Food is available at the park and there are shaded picnic areas with grills, so families can bring lunch and stay all day. Attractions are added on a continuous basis and there will soon be laser tag, a roller blade rink, a roller coaster, a ferris wheel, volleyball, horseshoes, and a petting zoo. There will also be activities for the physically challenged and a discovery center. For the Summer 2003 season, there will be bumper boats, a water slide, and a baseball diamond. Winter activities include ice skating, snowmobiling, and cross-country skiing. There are group packages available for school outings, birthday parties, and other private parties.

2.0 CULTURAL RESOURCES

The cultural and historic environment of St. Lawrence County is surprisingly varied and rich. During the course of a single year, there are literally hundreds of programs and events presented throughout the county. The nature of these events varies from opera to summer fairs to historical recreations. Presented here are some of the more popular cultural events and attractions.

2.1 Theater and Cultural Attractions

Theatrical arts are alive and well in St. Lawrence County. During every season of the year, local groups are performing both old favorites and exciting new pieces. In addition to the regular performances listed here, there are offerings from university groups such as Clarkson Theater, SUNY Potsdam Drama Department, and the Crane School Opera Guild.

Ogdensburg Command Performances	Ogdensburg
Grasse River Players.....	Canton
Norwood Village Green	Norwood
Crane School of Music (Symphony, Wind Ensemble, and Chorus)	Potsdam
Celebrity Artist Series	Potsdam

2.2 Festivals, Fairs, and Other Events

There are a number of recreational and cultural events held each year in St. Lawrence County. In particular, many local volunteer fire departments sponsor fund raising events throughout the year, including field days and carnivals. For additional information on these events, contact the individual fire department or the St. Lawrence County Fire Coordinator at (315) 379-2240.

Contemporary Music Festival	Crane School of Music - Potsdam
Fiddlers Festival	Parishville
Spring Festival.....	Crane School of Music - Potsdam
St. Lawrence County Gas and Steam Engine Show	Canton
Steinman Festival of the Arts	St. Lawrence University - Canton
St. Lawrence River Bluegrass Festival.....	Waddington
Festival of North Country Folklife	Massena
Heritage Festival.....	Massena
International Seaway Festival.....	Ogdensburg
Madrid Bluegrass Festival.....	Madrid
Oktoberfest	Massena
Potsdam Summer Festival	Potsdam
Backlash Bass Fishing Tournament	Edwardsville
Black Lake Ice Fishing Derby	Edwardsville
Morristown Fishing Derby	Morristown
Rushton Canoe Races	Canton

2.3 Museums and Art Galleries

There are 18 museums in St. Lawrence County, and more than 46 museums within a short drive. In addition, many towns throughout the county maintain their own museums. These include the towns of Brasher, Canton, Colton, Gouverneur, Massena, Norfolk, Parishville, and Potsdam. Days and hours of operation vary, so please contact the individual museums for more information.

Akwasne Museum.....	Hogansburg
Richard F. Brush Art Gallery	St. Lawrence University - Canton
Roland Gibson Gallery	SUNY Potsdam - Potsdam
Frederic Remington Art Museum.....	Ogdensburg
Silas Wright House.....	St. Lawrence County Museum - Canton

2.4 Historic Sites

There are many reminders of the past in St. Lawrence County. Historically St. Lawrence County has been important to the growth and trade expansion of both the United States and Canada. More information on the history of the area may be obtained through the St. Lawrence County Historical Association at (315) 386-8133.

Robinson Bay Archeological District	Prehistoric	Massena
Fort La Presentation	1749	Ogdensburg
First Power Dam and First American Locks	1808	Waddington
Old Customs House	1809	Ogdensburg
French Family Farm	1815	Potsdam
Land Office (now Village Library)	1821	Morristown
Samuel Stocking House	1821	Morristown
Morristown Schoolhouse	1824	Morristown
Stone Windmill	1825	Morristown
Governor Silas Wright House	1824	Canton
Gardner Cox House	1838	Hannawa Falls
United Methodist Church	1838	Morristown
Harristown Gristmill	1849	Morley
Judge John Fine House	1849	Ogdensburg
Dr. Buck-Stevens Octagon House	1855	Brasher Falls
Richardson Hall	1855	Canton
New York State Armory	1858	Ogdensburg
Chase Mills Inn	1865	Chase Mills
Oswegatchie Pumping Station	1868	Ogdensburg
Herring-Cole Hall	1869	Canton
Trinity Episcopal Church	1870	Morley
First U.S. Talc Mill	1876	Fowler
Raymondville Parabolic Bridge	1886	Norfolk
Lisbon Town Hall	1889	Lisbon
Dark Island Castle	1905	Hammond
United States Post Office	1915	Gouverneur
United States Post Office	1932	Potsdam
United States Post Office	1936	Canton
Oldest All-Aluminum Railway Span in the World	1946	Massena

2.5 Libraries

Many of the communities in St. Lawrence County support libraries that are free to the public. The added presence of the colleges and universities allows access to highly specialized materials in the arts, technology, business, and environmental conservation.

Local and Community Libraries

Canton Free Library

Canton

Clifton Community Library	Cranberry Lake
Colton-Hepburn Library	Colton
Gouverneur Library	Gouverneur
Hermon-Hepburn Library	Hermon
Lisbon-Hepburn Library	Lisbon
Madrid-Hepburn Library	Madrid
Massena Public Library	Massena
Norfolk-Hepburn	Norfolk
Norwood Library	Norwood
Ogdensburg Public Library	Ogdensburg
Potsdam Public Library	Potsdam
Rensselaer Falls Library	Rensselaer Falls
Richville Free Library	Richville
Russell Public Library	Russell
Waddington-Hepburn Library	Waddington

College and University Libraries

F.W. Crumb Memorial Library	SUNY Potsdam - Potsdam
Crane Music Library	SUNY Potsdam - Potsdam
Andrew Schuler Educational Resources Center	Clarkson University - Potsdam
O.D. Young Library	St. Lawrence University - Canton
Southworth Library	Canton College of Technology - Canton
Ranger School Library	State Ranger School - Wanakena
Wadhams Hall Library	Wadhams Hall - Ogdensburg

2.6 Churches

St. Lawrence County has a rich religious history. Its founders were influenced by both Catholic French Canada and Protestant New England. During the nineteenth century, as part of the "burned over district," St. Lawrence County met with fiery religious revivalism that encompassed diverse faiths. That diversity continues today, as illustrated by the 112 churches and significant Amish presence in St. Lawrence County.

St. Lawrence County Churches

Advent Christian	1	Lutheran Church	1
Assembly of God	5	Methodist Church	3
Baptist Church	14	Mission Evangelist Church	1
Charismatic	3	Presbyterian Church	11
Christian Science	1	Roman Catholic Church	19
Church of Christ	1	Nazarene Church	1
Community Churches	3	Pilgrim Holiness	3
Congregational Church	1	Seventh Day Adventist	1
Episcopal Church	7	Society of Friends	1
Free Methodist Church	1	Unitarian Universalist	1

Full Gospel Church	4	United Church of Christ	5
Jehovah's Witnesses	2	United Methodist Church	12
Jewish Synagogues	2	Wesleyan Church	6
Latter Day Saints	2		

2.7 Service Organizations and Clubs

The people of St. Lawrence County have the opportunity to join a wide variety of organizations, including fraternal orders, service organizations, youth groups, and professional societies. St. Lawrence County has active chapters of the American Legion, the B.P.O. Elks, the Moose Lodge, the Kiwanis Club, the Knights of Columbus, the Lion's Club, the Masonic Temple, Rotary International, and the Veterans of Foreign Wars. Many towns also have active youth groups, such as the Girl Scouts-USA, the Seaway Valley Council of the Boy Scouts of America, 4-H Cooperative Extension, and Boys' and Girls' Clubs. A number of professional societies, including the American Product and Industrial Control Society, the American Society of Civil Engineers, and the Society of Women Managers, may be reached through their college and university chapters.

3.0 RECREATIONAL FACILITIES

3.1 Community and Civic Centers

Most of the communities in St. Lawrence County schedule a variety of recreational activities for their residents. The following is a list of community-managed centers that have their own programs and are also available for community organizations. Each may be contacted directly regarding upcoming events.

Canton Community Center.....	Canton
Clifton-Fine Community Center.....	Star Lake
Massena Arena	Massena
Norwood Community Center	Norwood
Potsdam Community Center/Pine Street Arena	Potsdam
Tri-Town Community Center.....	Brasher
Waddington Community Center.....	Waddington

3.2 College and University Recreational Facilities

Most of the colleges and universities in the county open their athletic and recreational facilities to the public on a subscription basis. The following is a brief description of these facilities. Please contact the school's athletic facilities for detailed information.

Canton College of Technology, Canton Alumni Gymnasium	Tennis courts Weight room	Intramural sports Swimming pool
St. Lawrence University, Canton Appleton Arena	Ice hockey	Recreational skating
Augsbury Physical Education Center	Dance studio Gymnasium Swimming pool	Exercise rooms Squash courts Wrestling rooms
Leithead Field House	0.1-mile track All-purpose area	Tennis courts
Clarkson University, Potsdam Cheel Arena	Ice hockey Recreational skating	Weight room
Schuler Indoor Recreational Center	Exercise rooms Racquetball courts Sauna/whirlpool	Gymnasium Swimming pool Track
Outdoor Facilities	Baseball fields Tennis courts	Soccer fields
SUNY Potsdam, Potsdam Maxcy Hall Athletic Complex	Ice hockey Field house Racquetball courts	Recreational skating Gymnasia Swimming pool
Outdoor facilities	Quarter-mile track	Tennis courts
Athletic fields		

3.3 Golf Courses

As soon as the spring weather arrives, many of the golfers in St. Lawrence County can be seen on one of a dozen courses enjoying the warm sun and pleasant scenery. They

can choose from among four 18-hole and ten 9-hole courses. The individual clubs should be contacted regarding their specifics of operation.

Courses with 18 Holes	Location	Yards
Massena Country Club	Massena	6,364
St. Lawrence Golf & Country Club	Canton	6,780
Twin Brooks Golf Course	Waddington	6,600
Partridge Run Golf Course	Canton	

Courses with 9 Holes	Location	Yards
Clifton-Fine Memorial Golf Course	Star Lake	2,766
Fore By Fore	Gouverneur	2,965
Gouverneur Country Club	Gouverneur	3,068
Madrid Golf Course	Madrid	2,100
Meadowbrook Golf Course	Winthrop	3,050
Potsdam Town & Country Club	Potsdam	3,100
Raymondville Golf Course	Raymondville	3,070
St. Lawrence State Park	Ogdensburg	2,914
Cedar View	Rooseveltown	3,276
Deerfield Country Club	Heuvelton	

4.0 OUTDOOR RECREATION

4.1 Downhill Skiing

One of the most popular winter sports with St. Lawrence County residents is downhill skiing. There are three downhill skiing centers close by in the region, for a total of 75 trails. A bit farther away but still accessible are the skiing centers of New Hampshire, Vermont, and Massachusetts, which make excellent weekend excursions. Please contact the individual centers for additional information.

Skiing Centers	Number of Trails	Vertical Drop (ft.)
Gore Mountain, North River, NY	41	2,100
Titus Mountain, Malone, NY	15	600

4.2 Cross-Country Skiing and Snowmobiling

The terrain of St. Lawrence County is excellently suited to cross-country skiing and snowmobiling. There are more than 200 km of cross-country trails spread over 13 ski areas within the county. The mean annual snowfall for the county is 66 inches, providing both the occasional skier and the serious athlete with a generous amount of quality ski-time. In addition, there are approximately 46 cross-country ski areas in the

region and numerous snowmobiling trails. For more information, contact the individual agencies responsible for the area. (State Parks are also listed in 4.4)

Cross Country Ski Areas	Location	Kms of Trails
Canton High School	Canton	5
Clarkson Upper Campus Trail	Potsdam	2
Cranberry Lake Section Forest Preserve	Cranberry Lake	60
Dillabough State Forest	Pierrepont	7
Higley Flow State Park	Colton	8
Jacques Cartier State Park	Morristown	10
Little River, St. Lawrence Golf Course Trail	Canton	10
Postwood Park and County Forest	Hannawa Falls	13
Robert Moses State Park	Massena	25
St. Lawrence State Park	Ogdensburg	8
Star Lake, Streeter Lake Section	Star Lake	40
SUNY Canton College of Technology	Canton	8
Upper/Lower Lakes Wildlife Management Area	Canton	8

4.3 Hiking and Climbing

The County forests and other areas have numerous well-kept trails, both inside and outside the Adirondack Park. Many St. Lawrence County residents have climbed all of the 46 Adirondack high peaks, joining a growing number of Adirondack 46ers.

4.4 State Parks

In addition to the 11 State Parks listed here, there are 38 State Parks nearby in the region. Contact the State Department of Parks and Recreation at (518) 474-0456 or 1-800-456-CAMP for more information.

NAME/ LOCATION	BOATIN G	CAMPIN G	XC SKIING	FISHIN G	HIKIN G	SWIMMIN G
Cedar Island State Park Hammond NY	X	X			X	
Cedar Point State Park Clayton NY	X	X		X		X
Coles Creek State Park Waddington NY	X	X		X		X
Cranberry Lake State Park Clifton NY	X	X		X	X	X
Croil Island State Park* Louisville NY						

Eel Weir State Park Oswegatchie NY	X	X		X		
Galop Island State Park* Lisbon NY						
Higley Flow State Park South Colton NY	X	X	X	X	X	X
Jacques Cartier State Park Morristown NY	X	X	X	X	X	X
Robert Moses State Park Massena NY	X	X	X	X	X	X
St. Lawrence State Park Oswegatchie NY	X		X			

* Croil Island and Galop Island are underdeveloped State Parks.

4.5 Niagara Mohawk Camp and Picnic Facilities

The Niagara Mohawk Power Corporation maintains camping and picnic facilities along St. Lawrence County rivers where it has hydroelectric stations. All of these facilities are open to the public. In addition to the 11 sites listed here, there are 23 facilities in the nearby region.

Site	Location	River
Higley Pond	Colton	Raquette
Five Falls Pond	Colton	Raquette
Rainbow Falls Pond	Colton	Raquette
McNeil Campsite	Colton	Raquette
Stark Falls Pond	South Colton	Raquette
Carry Falls Dam	South Colton	Raquette
Parmeter Campsite	South Colton	Raquette
Piercefield Flow	Piercefield	Raquette
Grasse	Madrid	Grasse
Flat Rock Hydro	Fine	Oswegatchie
Heuvelton Hydro	Heuvelton	Oswegatchie

4.5 Boating

St. Lawrence County has a large amount of water area, including some sizeable lakes and rivers. Not surprisingly, many residents own their own boats. In total, there are 48 boats launches and marinas in the county, of which 28 are public, that provide access to seven major bodies of water for sailing, relaxing, or fishing.

Lakes	Launches/Marinas	Rivers	Launches/Marinas
Black Lake	1	Grasse River	2

Cranberry Lake	4	Oswegatchie River	2
Trout Lake	1	Racquette River	5
		St. Lawrence River	33

4.6 Fishing and Hunting

Sportsmen have always been attracted to the clear waters and beautiful woodlands of St. Lawrence County. Fishing and hunting are major pastimes in the county, and thousands of visitors rediscover them every year.

The area supports both boat fishing on lakes and ponds and fly fishing in the county's fast-moving streams and rivers. During the winter months, ice fishing is also popular. Annual contests such as the Morristown Fishing Derby and the Black Lake Ice Fishing Derby are always well attended. The County Chamber of Commerce maintains a Fishing Hotline at (315) 386-1133 throughout the year to provide up-to-date information for sportsmen.

Hunters can go after both small game, such as rabbit, and larger animals, including deer. Bow hunting is permitted by special license. Popular hunting areas include Lake View, Wilson Hill, and the Upper and Lower Lakes Wildlife Management Area.

Temporary and seasonal fishing and hunting licenses are available through most Town Clerk offices, Department of Environmental Conservation offices, and many sporting goods stores. New York State also issues Lifetime Fishing Licenses and Lifetime Hunting Licenses to qualified residents.

New rates effective 10/01/02

TYPE OF LICENSE	FEE
Fishing	Season.....\$19.00
	7-Day 12.00
	Non-Resident..... 40.00
	Non-Resident (7-day) 25.00
	Junior (1 day)..... 15.00
Small & Big Game	Season..... 19.00
	Non-Resident (Deer Only) 110.00
	Non-Resident Bear Tag (Big Game, Bow Hunting, Muzzle-Loading, or a Combination License Required) 30.00
Muzzle-Loading	Big Game License Required..... 16.00
	Non-Resident 110.00
Trapping	Resident 16.00
	Non-Resident 255.00

	Junior Trapping (Under 16 Years)	6.00
Turkey Permit	Resident (Hunting, Sportsman, or Junior Hunting Required)	5.00
	Non-Resident	30.00
Bow Hunting	Big Game License Required.....	16.00
	Junior (Ages 14 – 15)	9.00
	Non-Resident.....	110.00
Hunting – Small Game	Season.....	16.00
	Junior	5.00
	Non-Resident	55.00
Sportsman	Includes Big Game, Small Game, Fishing	37.00
Super Sportsman	Includes Big Game, Small Game, Bow Hunting, Muzzle-Loading, Turkeys and Fishing.....	68.00
	Non-Resident.....	250.00
Combination	Non-Resident (Includes Hunting, Fishing, Deer Hunting, Bow Hunting, Muzzle-Loading) ..	225.00
Senior Sportsman	Ages 65 and Over	5.00
Conservation Legacy	Includes Super Sportsman License, Habitat and Access Stamp, and Subscription to “The Conservationist”	76.00

For more information contact:
New York State Department of Environmental Conservation
License Sales Office, Room 111
50 Wolf Road
Albany, NY 12233-4790