

<b>List of Tables for Chapter 2</b>	
2-1	Physical Characteristics of the Mississippi River
2-2	Physical Characteristics of the Rideau Watershed
2-3	Subwatersheds in the MRSPR
2-4	Major Drainage Areas in the MRSPR
2-5	Summary of Soil Texture Types
2-6	Physiographic Region Descriptions
2-7	Wetlands in the MRSPR
2-8	Species at Risk in the Rideau Watershed
2-9	Species at Risk in the Mississippi Watershed
2-10	SAR Programs in the MRSPR
2-11	Surface Water - Water Quality Monitoring Programs in the MRSPR
2-12	Groundwater Quality Exceedances in the MRSPR
2-13	Municipalities in the MRSPR
2-14	Estimated Population Distribution in the MRSPR
2-15	Projected Population Distribution in the MRSPR
2-16	Population of Municipal & Non-Municipal Water Serviced Areas
2-17	Details of Large Municipal Water Systems in the MRSPR
2-18	Summary of Communal Well Systems in the MRSPR

**Table 2-2**  
**Physical Characteristics of the Mississippi River**  
**Mississippi - Rideau Source Protection Region**

<b>Characteristics</b>	<b>Size</b>
Drainage Area	3,765 km <sup>2</sup>
Watershed Length	212 km
Upper Elevation	325 masl
Downstream Elevation	73 masl
Total Drop	252 m
Average Slope	0.1 %

Compiled from: MRSPR Watershed Characterization Technical Report

**Table 2-3**  
**Physical Characteristics of the Rideau River**  
**Mississippi - Rideau Source Protection Region**

<b>Characteristics</b>	<b>Size</b>
Drainage Area	3,849 km <sup>2</sup>
Watershed Length	160 km
Upper Elevation	163 masl
Downstream Elevation	40 masl
Total Drop	123 m
Average Slope	0.1 %

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-4**  
**Mississippi-Rideau Subwatersheds**  
**Mississippi - Rideau Source Protection Region**

<b>Mississippi Valley Source Protection Area (MVSPA)</b>	<b>Ottawa (Source Protection Area)</b>	<b>Rideau Valley Source Protection Area (RVSPA)</b>
Big Gull	Carp River (MVSPA)	Jock River
Buckshot Creek	Ottawa River (MVSPA)	Kemptville Creek
Clyde River	Ottawa River West (MVSPA)	Lower Rideau
CP Dam	Ottawa River East (RVSPA)	Middle Rideau
Fall River		Rideau Lakes
High Falls		Tay River
Indian River		
Lower Mississippi		
Mazinaw		
Upper Mississippi		

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-5****Major Drainage Areas****Mississippi - Rideau Source Protection Region**

<b>Conservation Authority Watershed Subwatershed Area (km<sup>2</sup>)</b>				
<b>(Source Protection Area)</b>				
MVC (MVSPA)	Mississippi River	Big Gull Lake	150	
		Buckshot Creek	291	
		Clyde River	663	
		CP Dam	503	
		Fall River	487	
		High Falls	203	
		Indian River	213	
		Lower Mississippi	665	
		Mazinaw Lake	357	
		Upper Mississippi	233	
		Sub-Total	3,765	
		Carp River	Carp River	300
		Ottawa River	Tributaries	287
			Total	4,352
RVCA (RVSPA)	Rideau River	Jock River	569	
		Kemptville Creek	451	
		Lower Rideau	757	
		Middle Rideau River	823	
		Rideau Lakes	450	
		Tay River	799	
		Sub-Total	3,849	
		Ottawa River	East Tributaries	263

<b>Conservation Authority Watershed Subwatershed Area (km<sup>2</sup>)</b>			
<b>(Source Protection Area)</b>			
		West Tributaries	122
		Total	4,234
MVC & RVCA		Total	8,585

Notes: MVC - Mississippi Valley Conservation

MVSPA - Mississippi Valley Source Protection Area RVCA - Rideau Valley Conservation Authority RVSPA - Rideau Valley Source Protection Area

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-7**  
**Summary of Soil Texture in the MRSPR**  
**Mississippi - Rideau Source Protection Region**

Soil Texture	Total Area (km <sup>2</sup> )	Percentage of MRSPR
Eroded	249	2.9%
Heavy Clay	78	0.9%
Loam	2,618	30.5%
Loamy Sand	3,510	40.9%
Silty Clay	485	5.6%
Silty Loam	112	1.3%
Sandy Loam	1,535	17.9%
<b>Totals</b>	<b>8,585</b>	<b>100%</b>

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-6****Physiographic Regions Descriptions****Mississippi-Rideau Source Protection Area**

Physiographic Region	Percent of MRSPR	Description
Algonquin Highlands	40%	Covers an area of 3,400 km <sup>2</sup> in the MRSPR, and is characterized by shallow to non-existent acidic sandy or stony soils, underlain by Precambrian bedrock.  Topographic elevations range from 470 masl to 102 masl (from west to east). The region is heavily forested, with bogs and swamps typically found in low-lying areas. This physiographic region characterizes much of the Canadian Shield.
Smiths Falls Limestone Plain	26%	Covers an area of 2,200 km <sup>2</sup> in the MRSPR, and is characterized by poorly-drained, shallow soil over limestone or dolostone bedrock. The terrain is relatively flat, ranging from 165 masl in the southwest, to 85 masl near the City of Ottawa.
Ottawa Valley Clay Plains	17%	Covers an area of 1,500 km <sup>2</sup> in the northern portion of the MRSPR, along the Ottawa River. Characterized by thick deposits of grey, silty clay interrupted by ridges of rock or sand. The terrain is flat, ranging from 160 masl to 40 masl, and is highly productive as agricultural land.
Georgian Bay Fringe	10%	Covers an area of 860 km <sup>2</sup> in the westernmost portion of the MRSPR, and is characterized by very shallow soil and bare rock. Elevation ranges from 400 masl to 180 masl, and similarly to the Algonquin Highlands, is heavily forested.
Edwardsburg Sand Plain	3%	Covers an area of 270 km <sup>2</sup> in a thin slice along the eastern edge of the MRSPR adjacent to the Smiths Falls Limestone Plain, and is characterized by glaciofluvial (deposited by glacial meltwater) sand deposits overlying bedrock, till or clay. Terrain is relatively flat, with sand ridges and moraines providing some relief.
North Gower Drumlin Field	3%	Covers small, localized areas within the southern portions of the City of Ottawa, totalling 250 km <sup>2</sup> . Characterized by a north-south oriented drumlinized till plain, with clay and silt deposits filling the land between the scattered drumlin formations. Terrain is undulating, ranging from 115



Physiographic Region	Percent of MRSPR	Description
		to 80 masl, with rounded drumlins protruding up to 30 m above the surrounding area.
Russell and Prescott Sand Plains	1%	Covers a small area at the northeastern boundary of the MRSPR totalling 80 km <sup>2</sup> , and is characterized by relatively thick sand deposit overlying red and grey clay. Terrain is flat, ranging from 115 to 90 masl, and the sands reach thicknesses between 3 to 10 m.

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-10****Wetlands****Mississippi - Rideau Source Protection Region**

Wetland Type	MVC (MVSPA)			RVCA (RVSPA)			
	Provincially Significant	Locally Significant	Not Significant	Provincially Significant	Locally Significant	Not Significant	Total (km <sup>2</sup> )
Bog	3.3	0.1		11.0			14.5
Fen	1.7	0.0		4.6	0.2		6.5
Marsh	28.2	3.2		49.2	3.8	0.5	84.8
Open Water	24.9	1.4		16.1	1.4		43.7
Swamp	97.1	12.2		279.1	21.4		409.8
Upland				0.0			0.0
Unclassified			0.3	20.4		3.6	24.3
<b>Totals</b>	<b>155.2</b>	<b>17.0</b>	<b>0.3</b>	<b>380.5</b>	<b>26.7</b>	<b>4.1</b>	<b>583.7</b>

Notes: MVC - Mississippi Valley Conservation

MVSPA - Mississippi Valley Source Protection Area RVCA - Rideau Valley Conservation Authority RVSPA - Rideau Valley Source Protection Area

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-11**  
**Species at Risk in the Rideau Valley Source Protection Area**  
**Mississippi-Rideau Source Protection Region**

Common Name	OMNR Status	Species Type
Bald Eagle	Endangered	Bird
Black Tern	Special Concern	Bird
Cerulean Warbler	Special Concern	Bird
Common Nighthawk*	Special Concern	Bird
Henslow's Sparrow	Endangered	Bird
Least Bittern	Threatened	Bird
Loggerhead Shrike	Endangered	Bird
Louisiana Waterthrush	Special Concern	Bird
Peregrine Falcon	Threatened	Bird
Whip-poor-will*	Threatened	Bird
Yellow Rail	Special Concern	Bird
Lake Sturgeon	Special Concern	Fish
Northern Brook Lamprey	Special Concern	Fish
American Eel*	Endangered	Fish
Common Gray Fox	Threatened	Mammal
American Ginseng	Endangered	Plant
Blunt-lobed Woodsia	Endangered	Plant
Butternut	Endangered	Plant
Eastern Prairie Fringed-Orchid*	Endangered	Plant
Flooded Jellyskin	Threatened	Plant
Blanding's Turtle	Threatened	Reptile
Eastern Musk Turtle	Threatened	Reptile
Eastern Ratsnake	Threatened	Reptile

<b>Common Name</b>	<b>OMNR Status</b>	<b>Species Type</b>
Eastern Ribbonsnake	Special Concern	Reptile
Five-lined Skink	Special Concern	Reptile
Milksnake	Special Concern	Reptile
Northern Map Turtle	Special Concern	Reptile
Snapping Turtle	Special Concern	Reptile
Spotted Turtle	Endangered	Reptile
Wood Turtle	Endangered	Reptile

Notes: \* Updated December 2009, update source MNR

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-13****Species at Risk in the Mississippi Valley Source Protection Area  
Mississippi-Rideau Source Protection Region**

<b>Common Name</b>	<b>OMNR Status</b>	<b>Species Type</b>
Black Tern	Special Concern	Bird
Common Nighthawk*	Special Concern	Bird
Least Bittern	Threatened	Bird
Loggerhead Shrike	Endangered	Bird
Peregrine Falcon	Threatened	Bird
Short-eared Owl	Special Concern	Bird
Whip-poor-will*	Threatened	Bird
Channel Darter*	Threatened	Fish
Lake Sturgeon	Special Concern	Fish
River Redhorse	Special Concern	Fish
American Eel	Endangered	Fish
Common Gray Fox	Threatened	Mammal
Rainbow Mussel*	Threatened	Mussel
American Ginseng	Endangered	Plant
Butternut	Endangered	Plant
Flooded Jellyskin	Threatened	Plant
Blanding's Turtle	Threatened	Reptile
Eastern Musk Turtle*	Threatened	Reptile
Eastern Ribbonsnake	Special Concern	Reptile
Five-lined Skink	Special Concern	Reptile
Milksnake	Special Concern	Reptile
Northern Map Turtle	Special Concern	Reptile
Snapping Turtle*	Special Concern	Reptile

<b>Common Name</b>	<b>OMNR Status</b>	<b>Species Type</b>
Spotted Turtle	Endangered	Reptile
Wood Turtle	Endangered	Reptile

Notes: \* Updated December 2009, update source MNR

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-10**  
**Species at Risk Projects**  
**Mississippi-Rideau Source Protection Region**

Project name	SAR targeted	Organization(s)	Description
American Eel Passage	American Eel	MVC, Queens, Plenty Canada	Addressing migration barrier issues
Turtle inventory	SAR Turtles (Blandings, etc.)	MVC, Queens, Plenty Canada	Turtle habitat ID in Mississippi watershed
Field Verification of Eastern Prairie Fringed-Orchid Habitat Modeling in Ottawa	Eastern Prairie Fringed-Orchid, Spotted Turtle	Ottawa Stewardship Council	Habitat field verification of modelling exercise.
Butternut recovery program	Butternut Tree	RVCA, Ottawa Stewardship Council	Ongoing work to identify healthy seed trees, etc.
Petrie Island Turtle Nesting Habitat Surveys	Northern Map Turtle, Blandings Turtle, Musk Turtle (Stinkpot)	Ottawa Stewardship Council	Survey of Nesting Turtles / Nesting Habitat on Petrie Island
Petrie Island SAR Turtle Nesting Habitat Project	the 3 above-mentioned SAR turtles	Ottawa Stewardship Council	Creation of an artificial nesting site
Ottawa Chimney Swift Nesting Survey and Public Outreach	Chimney Swift	Ottawa Stewardship Council	Landscape Level Survey Planning
Municipal Drains habitat assessment and protection	Aquatic species	RVCA	Review of drains as SAR habitat

Notes: MVC - Mississippi Valley  
Conservation Authority  
RVCA - Rideau Valley Conservation Authority  
Queen's - Queen's University

Sources: Mississippi Valley  
Conservation Rideau Valley  
Conservation Authority  
Ottawa Stewardship Council

**Table 2-11**  
**Surface Water - Water Quality Monitoring Programs**  
**Mississippi - Rideau Source Protection Region**

Water Source	Parameter Class	Parameter	Number of Locations Monitored					
			MVC WW	Ottawa <sup>1</sup>	PWQ MN	RVCA SW	RVCA WW	
Surface Water	General							
	Chemistry	Alkalinity		70	21	54		
		Ammonia (Total)		70	21	54		
		Ammonia (Unionized)		70				
		Biochemical Oxygen Demand (5 day) - (BOD)			21			
		Chloride		70	21	54		
		Chlorophyll a	39					
		Conductivity		70	21	54		
		Dissolved Organic Carbon (DOC)		70		54	41	
		Dissolved Oxygen - (DO)	39	70	21	54	41	
		Hardness		70	21			
		Nitrate + Nitrite		70	21			
		Nitrate				54		
		Nitrite			21	54		
		pH	39	70	21	54		
		Phosphorus (Reactive) - (RP)		70	21	54		
		Phosphorus (Total) - (TP)	39	70	21	54	41	
		Secchi Disk	39	70				41
		Sulphate		70		54		



Water Source	Parameter Class	Parameter	Number of Locations Monitored				
			MVC WW	Ottawa <sup>1</sup>	PWQ MN	RVCA SW	RVCA WW
		Temperature	39	70	21	54	41
		Total Kjeldahl Nitrogen - (TKN)		70	21	54	41
		Total Suspended Solids -		70	21	54	
		Turbidity			21		
	Metals	Aluminum		70	21	54	
		Antimony		70		54	
		Barium		70	21	54	
		Beryllium		70	21	54	
		Bismuth		70		54	
		Cadmium		70	21	54	
		Calcium		70	21	54	
		Chromium		70	21	54	
		Cobalt		70	21	54	
		Copper		70	21	54	
		Iron		70	21	54	
		Lead		70	21	54	
		Magnesium		70	21	54	
		Manganese		70	21	54	
		Molybdenum		70	21	54	
		Nickel		70	21	54	

**Table 2-11 (Continued)**  
**Surface Water - Water Quality Monitoring Programs**  
**Mississippi - Rideau Source Protection Region**

Water Source	Parameter Class	Parameter	Number of Locations Monitored				
			MVC WW	Ottawa <sup>1</sup>	PWQ MN	RVCA SW	RVCA WW
	Metals	Potassium		70	21	54	
		Silicon Silver Sodium Strontium Thallium Tin Titanium Uranium Vanadium Zinc		70 70 70 70	21 21	54 54 54 54	
		Escherichia Coli - ( <i>E. Coli</i> )		70 70 70 70 70 70	21 21 21	54 54 54 54 54	41
	Biological			70		54	
	Totals		6	45	36	41	7

**Notes:** MVC WW - Mississippi Valley Conservation - Watershed Watch

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

1 - Sample locations within the MRSPR only

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-12**  
**Groundwater Quality Exceedances in the MRSPR**  
**Mississippi - Rideau Source Protection Region**

Parameter	ODWQS Criteria	ODWSOG Criteria	ODWQS or ODWSOG Qualifier	No. of Exceedance Locations	No. of Samples	% of Exceedance
Inorganic Chemicals						
Chloride		250 mg/l	AO	95	3,517	3%
Fluoride	1.5 mg/l		MAC	6	489	1%
Nitrate	10 mg/L		MAC	72	3,235	2%
Sodium		200 mg/l	AO	51	738	7%
Metals						
Iron		0.3 mg/L	AO	264	824	32%
Aesthetics parameters						
Total Dissolved Solids		500mg/l	AO	103	374	28%
Hardness		80-100 mg/l	OG	851	875	97%
Sulphate		500 mg/l	AO	4	2,970	0%
Sulfide (H <sub>2</sub> S)		0.05 mg/l	AO	18	116	16%
Turbidity		5 NTU	AO	10	6,701	0%
pH		6.5-8.5	OG	36	2,937	1%
Alkalinity		30-500 mg/l	OG	7	356	2%
Dissolved Organic Carbon		5 mg/l	AO	8	136	6%
Microbiological Standards						

Parameter	ODWQS Criteria	ODWSOG Criteria	ODWQS or ODWSOG Qualifier	No. of Exceedance Locations	No. of Samples	% of Exceedance
<i>E. Coli</i>	ND		MAC	204	7,624	3%
Total Coliform	ND		MAC	301	7,619	4%

Compiled from: MRSPP Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-13**  
**Mississippi-Rideau Municipalities**  
**Mississippi - Rideau Source Protection Region**

Conservation Authority/ Source Protection Area	Upper / Single Tier	Lower Tier
MVC/MVSPA	Frontenac, County of	North Frontenac Township
	Lanark County	Carleton Place, Town of
		Lanark Highlands, Township of
		Mississippi Mills, Town of
	Lennox & Addington, County of	Addington Highlands, Township of
Renfrew, County of	Greater Madawaska, Township of	
RVCA/MVSPA	Frontenac, County of	South Frontenac, Township of
	Lanark County	Montague, Township of
		Perth, Town of
	Leeds & Grenville, United Counties of	Athens ,Township of
		Augusta, Township of
		Edwardsburg - Cardinal, Township of
		Elizabethtown - Kitley, Township of
		Merrickville - Wolford , Village of
		North Grenville, Municipality of
		Rideau Lakes, Township of
	Westport, Village of	
	Prescott & Russell, United Counties of	Clarence - Rockland, City of
	Smiths Falls, Town of	
Stormont, Dundas & Glengarry, United Counties of	North Dundas, Township of	

Conservation Authority/ Source Protection Area	Upper / Single Tier	Lower Tier
MVC & RVCA MVSPA/RVSPA	Frontenac, County of	Central Frontenac Township
	Lanark County	Beckwith Township
		Drummond/North Elmsley, Township of
		Tay Valley Township
	Ottawa, City of	

**Notes:** MVC - Mississippi Valley Conservation

MVSPA - Mississippi Valley Source Protection Area RVCA - Rideau Valley Conservation Authority

RVSPA - Rideau Valley Source Protection Area

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-14**  
**Estimated Population Distribution**  
**Mississippi - Rideau Source Protection Region**

Upper/Single Tier	Lower Tier	% Area in MRSPR	2006 Census Population	2006 Population in MRSPR <sup>1</sup>
Frontenac County	Central Frontenac Township	54	4,665	2,593
	North Frontenac Township	71	1,904	1,543
	South Frontenac Township	13	18,227	801
Lanark County	Beckwith Township	100	6,387	6,387
	Carleton Place, Town of	100	9,453	9,453
	Drummond/North Elmsley Township	100	7,118	7,118
	Lanark Highlands Township	91	5,180	4,924
	Mississippi Mills, Town of	89	11,734	11,254
	Montague Township	100	3,595	3,595
	Perth, Town of	100	5,907	5,907
	Tay Valley Township	100	5,634	5,634
Leeds&Grenville County	Athens Township	4	3,086	43
	Augusta Township	19	7,510	810
	Edwardsburg - Cardinal Township	1	6,689	5
	Elizabethtown - Kitley Township	61	10,201	3,742
	Merrickville-Wolford, Village of	100	2,867	2,867
	North Grenville Township	67	14,198	11,756
	Rideau Lakes Township	51	10,350	6,200
	Westport, Village of	100	645	645

Upper/Single Tier	Lower Tier	% Area in MRSPR	2006 Census Population	2006 Population in MRSPR <sup>1</sup>
Lennox & Addington County	Addington Highlands Township	21	2,512	362
Ottawa, City of	Ottawa, City of	73	812,129	770,006
Prescott and Russell County	Clarence-Rockland, City of	3	20,790	726
Smiths Falls, Town of	Smiths Falls, Town of	100	8,777	8,777
Stormount, Dundas & Renfrew County	North Dundas Township	1	11,095	134
	Greater Madawaska Township	3	2,751	106
Total				865,388

**Notes:** Population data collected from Statistics Canada 2006 Census by Dissemination Area 1 - Population data not for entire municipality

% in MRSPR based on portion of the area within region.

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)



**Table 2-15**  
**Projected Population Distribution**  
**Mississippi - Rideau Source Protection Region**

Upper/Single Tier Municipality	Total Population	Total Projected Population			Projected Population Growth (%)		
	2001	2011	2021	2031	2011	2021	2031
Frontenac County	138,606	158,600	172,800	184,200	14%	25%	33%
Lanark County	62,495	72,900	80,400	85,600	17%	29%	37%
Leeds&Grenville County	96,606	106,200	112,200	117,000	10%	16%	21%
Lennox & Addington County	39,461	43,000	45,600	48,000	9%	16%	22%
Ottawa, City of	774,072	904,900	1,014,100	1,116,700	17%	31%	44%
Prescott and Russell County	76,446	89,100	96,700	102,200	17%	26%	34%
Stormount, Dundas & Glengarry	109,522	119,500	124,100	127,900	9%	13%	17%
Renfrew County	95,138	101,200	106,200	110,300	6%	12%	16%
Average					12%	21%	28%

notes: Population data collected from Statistics Canada  
2001 Census Projected population data collected  
from Ministry of Finance Projected population  
growth referenced to 2001 population data.

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-17**  
**Details of Large Municipal Water Systems**  
**Mississippi - Rideau Source Protection Region**

Facility	Permit Number	Drinking Water System Number	PTTW (m <sup>3</sup> /day)	5-year average (2000-2005) (m <sup>3</sup> /day)
MVSPA				
Almonte	8474-6MJR6X	200001290	6,895	1,831
Carleton Place	6882-686R5M	210000372	12,000	6,318
Carp	3630-62UPSJ	210002272	2,782	311
RVSPA Britannia	00-P-4139	220003154	360,000	171,968
Kemptville	97-P-4036	220001236	4,490	1,492
	00-P-4138			
	01-P-4061			
King's Park	6540-64UJKL	200007999	2,620	186
Lemieux Island	2642-642LKE	220003207	325,000	162,380
Merrickville	87-P-4101	220001227	4,295	515
Munster Hamlet	3876-6QBL9J	220008006	2,362	433
Perth	5464-6MHL84	220001272	9,092	4,833
Smiths Falls	88-P-4010	220001307	18,100	9,494
Westport	00-P-4134	210001004	1,750	365
	0154-62QJ3N			

Notes: MVSPA - Mississippi Valley Source Protection Area RVSPA - Rideau Valley Source Protection Area

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)

**Table 2-16****Population of Municipal & Non-Municipal Water Serviced Areas****Mississippi - Rideau Source Protection Region**

Upper/Single Tier	Lower Tier	Name of Municipal Water Service Area	Population in MRSPR <sup>1</sup>	Municipally Serviced Population <sup>2, 3</sup>	Non-Municipally Serviced Population
Frontenac County	Central Frontenac Township		2593		2593
	North Frontenac Township		1543		1543
	South Frontenac Township		801		801
Lanark County	Beckwith Township		6387		6387
	Carleton Place, Town of		9,453	9,453	
	Drummond / North Elmsley		7,118		7,118
	Lanark Highlands Township		4924		4924
	Mississippi Mills, Town of		11,254		6,595
		Almonte		4,659	
	Montague Township		3595		3,035
		Adirondo		560	
	Perth, Town of	Perth	5,907	5,907	
Tay Valley Township		5,634		5,634	
Leeds&Grenville County	Athens Township		43		43
	Augusta Township		810		810
	Edwardsburg - Cardinal Township		5		5
	Elizabethtown - Kitley Township		3,742		3,742

Upper/Single Tier	Lower Tier	Name of Municipal Water Service Area	Population in MRSPR <sup>1</sup>	Municipally Serviced Population <sup>2, 3</sup>	Non-Municipally Serviced Population
	Merrickville-Wolford, Village of		2,867		1,766
		Merrickville		1,101	
	North Grenville Township		11,756		8,361
		Kemptville		3,395	
	Rideau Lakes Township		6200		6200
	Westport, Village of	Westport	645	645	
Lennox & Addington County	Addington Highlands		362		362
Ottawa, City of			770,006		74,352
		Urban Area <sup>4, 5</sup>		695,654	
Prescott & Russell County	Clarence-Rockland, City of		726		726
Smiths Falls, Town of		Smiths Falls	8,777	8,777	
Stormont, Dundas & Glengarr	North Dundas Township		134		134
Renfrew County	Greater Madawaska Township		106		106
		Totals	865,388	730,151	135,237

## Notes:

1. Population data not for entire municipality, Stats Canada 2006 Census by Dissemination Area
2. Municipally serviced population data collected from Statistics Canada Municipal Water Use Database (MUD)
3. Population of entirely serviced municipalities adjusted to Stats Canada 2006 Census data
4. Urban Area of the City of Ottawa includes Barrhaven / Riverside South, Kanata / Stittsville, Orleans and Ottawa  
Urban Area also includes municipal service areas of Carp, King's Park, Manotick and Munster

**Table 2-18**  
**Communal Wells and Designated Facilities in the MRSPR**  
**Mississippi - Rideau Source Protection Region**

Municipality	Facility Type					
	Non-Municipal Seasonal Residential Supply (NMSRS)	Non-Municipal Year-Round Residential Supply (NMYRRS)	Large Non-Municipal Non-Residential Supply (LNMNRS)	Small Non-Municipal Non-Residential Supply (SNMNRS)	Large Municipal Non-Residential Supply (LMNRS)	Small Municipal Non-Residential Supply (SMNRS)
Addington Highlands	2			12		2
Athens				4		1
Augusta						
Beckwith	1	2		2		1
Carleton Place				3		
Central Frontenac	2		1	22		1
Clarence-Rockland	2	3		5		
Drummond/North Elmsley	1	2		8		
Edwardsburgh - Cardinal	1			9	1	4
Elizabethtown-Kitley			1	13		14
Greater Madawaska	3	2	1	19		3
Lanark Highlands	3	2		12		10
Merrickville-Wolford				3		1
Mississippi Mills	2	2		11		5
Montague	1	1		4		2
North Dundas		1		12		7
North Frontenac	4		2	6		1
North Grenville		1		10		
Ottawa Amalgamated	4	16	3	128	1	49
Perth						

Municipality	Facility Type					
	Non-Municipal Seasonal Residential Supply (NMSRS)	Non-Municipal Year-Round Residential Supply (NMYRRS)	Large Non-Municipal Non-Residential Supply (LNMNRS)	Small Non-Municipal Non-Residential Supply (SNMNRS)	Large Municipal Non-Residential Supply (LMNRS)	Small Municipal Non-Residential Supply (SMNRS)
Rideau Lakes	6	4		29	1	17
Smiths Falls				3		
South Frontenac	11	3		23	1	13
Tay Valley	4		2	22		
Westport				1		
Totals	47	39	10	361	4	131

Compiled from: MRSPR Watershed Characterization Technical Report (see Appendix A-1)