

Appendix 8 Natural Heritage Information Centre (NHIC) provincial rank (SRANK) definitions

Provincial Rank (SRANK):

Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation, needs can be ascertained. The NHIC evaluates provincial ranks on a continual basis and produces updated lists at least annually. The NHIC welcomes information which will assist in assigning accurate provincial ranks.

S1 Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.

S2 Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.

S3 Rare to uncommon in Ontario; usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances. Most species with an S3 rank are assigned to the watch list, unless they have a relatively high global rank.

S4 Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.

S5 Very common and demonstrably secure in Ontario.

SH Historically known from Ontario, but not verified recently (typically not recorded in the province in the last 20 years); however suitable habitat is thought to be still present in the province and there is reasonable expectation that the species may be rediscovered.

SR Reported for Ontario, but without persuasive documentation which would provide a basis for either accepting or rejecting the report.

SRF Reported falsely from Ontario.

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

SZ Not of practical conservation concern inasmuch as there are no clearly definable occurrences; applies to long distance migrants, winter vagrants, and eruptive species, which are too transitory and/or dispersed in their occurrence(s) to be reliably mapped; most such species are non-breeders, however, some may occasionally breed.

SZB Breeding migrants/vagrants.

SZN Non-breeding migrants/vagrants.

SA Accidental; of accidental or casual occurrence in the province; far outside its normal range; some species may occasionally breed in the province.

SAB Breeding accidental.

SAN Non-breeding accidental.

C Captive/Cultivated; existing in the province only in a cultivated state; introduced population not yet fully established and self-sustaining.

S? Unranked, or, if following a ranking, rank **uncertain** (e.g. S3?). S? species are thought to be rare in Ontario, but there is insufficient information available to assign a more accurate rank.

Updated: 1996-09-04

Appendix 9 Population of municipalities within the Rideau River watershed (1991 and 1996)

Municipality/township	New Municipality	Population		% change
		1991	1996	
Front-of-Yonge ¹	Athens	2,357	2,530	7.34
Augusta ²	Augusta	7,176	7,626	6.27
Bathurst	Bathurst Burgess Sherbrooke	2,888	3,179	10.08
North Burgess	Bathurst Burgess Sherbrooke	1,021	1,269	24.29
Sherbrooke	Bathurst Burgess Sherbrooke	669	732	9.42
South Sherbrooke	Bathurst Burgess Sherbrooke	669	732	9.42
Beckwith ²	Beckwith	4,564	5,495	20.4
Olden ¹	Central Frontenac	811	906	11.71
Oso ¹	Central Frontenac	1,361	1,413	3.82
Hinchinbrooke	Central Frontenac	1,117	1,328	18.89
Clarence ¹	Clarence-Rockland	8,982	10,563	17.6
Drummond	Drummond/North Elmsley	2,771	3,185	14.94
North Elmsley	Drummond/North Elmsley	2,833	3,018	6.53
Elizabethtown ²	Elizabethtown-Kitley	7,439	7,761	4.33
Kitley ²	Elizabethtown-Kitley	2,191	2,461	12.32
Merrickville ²	Merrickville-Wolford	989	1,027	3.84
Wolford ²	Merrickville-Wolford	1,438	1,603	11.47
Montague ²	Montague	3,620	3,802	5.03
Mountain ¹	North Dundas	3,375	3,617	7.17
Kemptville ²	North Grenville	2,735	3,272	19.63
Oxford-on-Rideau ²	North Grenville	5,513	6,876	24.72
South Gower ²	North Grenville	1,949	2,500	28.27
Kanata ¹	Ottawa	37,344	47,909	28.29
West Carleton ¹	Ottawa	14,647	16,541	12.93
Cumberland	Ottawa	40,697	47,367	16.39
Gloucester ²	Ottawa	101,677	104,022	2.31
Goulbourne ²	Ottawa	16,151	19,267	19.29
Nepean ²	Ottawa	107,627	115,100	6.94
Osgoode ²	Ottawa	13,976	15,904	13.8
Ottawa ²	Ottawa	313,987	323,340	2.98
Rideau ²	Ottawa	11,778	12,444	5.65
Vanier ²	Ottawa	18,150	17,247	-4.98
Rockcliffe Park	Ottawa	2,113	1,995	-5.58
Perth	Perth	5,576	5,886	5.56
Bastard & S. Burgess	Rideau Lakes	2,610	2,692	3.14
North Crosby	Rideau Lakes	968	1,097	13.33
South Crosby	Rideau Lakes	1,677	1,910	13.89
South Elmsley	Rideau Lakes	3,060	3,574	16.8
Smiths Falls ²	Smiths Falls	9,439	9,131	-3.26
Bedford	South Frontenac	927	1,112	19.96
Westport	Westport	664	683	2.86
Total		769,536	822,116	6.83
Total excluding ¹		700,659	738,637	5.42

Note ¹ – municipalities for which only a very small portion is in the Rideau River watershed

Note ² – municipalities which border the Rideau River below Smiths Falls, or its tributaries, the Jock R. and Kemptville Creek

Source: Statistics Canada

Appendix 10 City of Ottawa Sub-Regional Population, 1992-1999

AREA	1992	1993	1994	1995	1996	1997	1998	1999
OTTAWA TOTAL	313,093	317,296	319,474	321,786	324,960	326,836	329,337	332,039
VANIER	18,101	18,203	17,588	17,722	17,971	17,932	17,932	17,946
ROCKCLIFFE	2,370	2,383	2,275	2,287	2,266	2,217	2,220	2,261
NEPEAN, inside Grnblt	83,301	85,623	85,660	85,673	87,221	87,790	88,278	88,663
NEPEAN, SUC	21,199	22,305	24,671	27,361	28,325	29,843	31,201	33,527
NEPEAN, rural	3,189	3,206	3,161	3,168	3,192	3,195	3,219	3,260
NEPEAN, Total	107,689	111,134	113,492	116,202	118,738	120,828	122,698	125,450
GLOUC, inside Grnblt	57,530	58,232	57,745	59,096	59,976	60,847	61,579	62,239
GLOUC, EUC	37,750	39,183	40,153	40,814	41,501	42,288	43,342	44,291
GLOUC, SUC						400	749	1,550
GLOUC, Leitrim							0	0
GLOUC, rural	5,130	5,177	5,081	5,158	5,210	5,230	5,261	5,291
GLOUC, Total	100,410	102,592	102,979	105,068	106,687	108,765	110,931	113,370
KANATA, WUC	36,532	39,210	42,507	44,341	45,618	47,700	49,797	52,405
KANATA, rural	2,200	2,260	2,260	2,280	2,280	2,356	2,441	2,577
KANATA, Total	38,732	41,470	44,767	46,621	47,898	50,056	52,238	54,982
CUMB., EUC	32,477	33,749	35,694	36,279	37,103	38,238	39,272	40,801
CUMB., rural	9,493	9,756	9,790	9,942	10,039	10,147	10,354	10,578
CUMB., Total	41,970	43,505	45,484	46,221	47,142	48,385	49,626	51,379
GOUL., STITTSVILLE	8,943	9,222	9,922	10,446	11,047	11,764	12,589	13,254
GOUL., rural	7,772	8,007	8,298	8,467	8,618	8,785	8,863	9,003
GOUL., Total	16,715	17,229	18,220	18,913	19,665	20,549	21,453	22,257
RIDEAU	11,796	12,037	12,227	12,361	12,466	12,523	12,673	12,796
OSGOODE	14,265	14,690	15,361	15,705	15,925	16,284	16,651	17,151
W. CARLETON	15,029	15,506	15,883	16,184	16,387	16,522	16,764	17,158
RMOG TOTAL	680,170	696,045	707,750	719,070	730,105	740,897	752,524	766,790

SUC: South Urban Centre, > Barrhaven, Longfields, Davidson Heights

EUC: East Urban Centre, > Orleans both Gloucester and Cumberland parts

WUC: West Urban Centre, > Kanata (urban part)

Inside Grnblt, > Area inside of the outer limits of the NCC's Greenbelt

Source: City of Ottawa

1992-1997 From Assessment, 1998 and 1999 from RMOG Estimate

Appendix 11 Agricultural land use in municipalities within the Rideau River watershed, 1996.

Municipality	Total area (ha)	Number of Farms	Total area of farms (ha)	Land in crops (ha)	Summer-fallow (ha)	Tame or seeded pasture (ha)	Natural land for pasture (ha)	Other land (ha)
Augusta ²	31442	142	12177	5532	57	1019	1949	3620
Bastard & S. Burgess	26651	121	13967	4318	34	771	4025	4819
Bathurst	25072	125	12217	4322	0	997	2883	4015
Beckwith ²	24309	101	9143	3519	0	677	1939	3008
Bedford	30643	42	7168	1731	0	825	2075	2537
Clarence ¹	29079	160	12385	8499	26	695	1205	1960
Cumberland	31569	188	15266	10409	68	926	1772	2091
Drummond	24174	144	14211	5897	25	1762	2218	4309
Elizabethtown ²	33302	159	14339	6234	17	902	2609	4577
Front of Yonge ¹	13136	53	5050	2297	0	391	754	1608
Gloucester ²	29386	88	7672	4571	0	640	1059	1402
Goulbourn ²	27132	164	12117	6603	36	1040	1970	2468
Hinchinbrooke	28678	58	7976	1602	0	199	4356	1819
Kanata ¹	13221	45	3352	1178	0	327	1337	510
Kitley ²	22649	95	9506	3588	0	501	2023	3394
Montague ²	28322	101	9732	3054	0	771	2955	2952
Mountain ¹	24908	222	17567	13819	0	872	1170	1706
N. Burgess	15100	34	4133	996	0	0	1595	1542
N. Crosby	19118	53	8627	1934	0	420	3945	2328
N. Elmsley	12955	55	6458	2361	0	414	1847	1836
Nepean ²	21700	70	10344	6544	0	375	1773	1652
Olden ¹	26900	31	4891	650	0	105	2321	1815
Osgoode ²	37986	289	22475	14776	203	1556	1993	3947
Oso ¹	18707	24	4678	390	0	0	1987	2301
Oxford on Rideau ²	25937	156	9211	4272	0	688	1304	2947
Rideau ²	40875	211	17469	10725	32	862	2387	3463
S. Crosby	17411	62	7500	2394	25	722	2005	2354
S. Elmsley	9847	42	3597	1429	0	271	817	1080
S. Gower ²	8885	71	3425	1983	0	225	225	992
S. Sherbrooke	15206	17	1900	349	0	0	1164	387
W. Carleton ¹	62347	400	31419	16117	45	2482	6564	6211
Wolford ²	21109	62	6929	2389	49	1078	1421	1992

Certain census consolidated subdivisions incorporate more than one census subdivision (i.e. municipality)

Clarence - Clarence and Rockland

Augusta - Augusta and Prescott

Elizabethtown - Elizabethtown and Brockville

North Crosby - North Crosby, Westport and Newboro

Wolford - Wolford and Merrickville

Oxford-on-Rideau - Oxford-on-Rideau and Kemptville

Montague - Montague and Smiths Falls

Drummond - Drummond and Perth

Beckwith - Beckwith and Carleton Place

Census of Agriculture data are not available for Ottawa, Rockcliffe Park and Vanier

Note ¹ – municipalities for which only a very small portion is in the Rideau River watershed

Note ² – municipalities which border the Rideau River below Smiths Falls, or its tributaries, the Jock R. and Kemptville Creek

Source: Statistics Canada, 1996 Agriculture Census

Appendix 12 Agricultural practices in municipalities within the Rideau River watershed, 1996.

Municipality	Area of land on which substance applied (hectares)							
	Irrigation	Commercial fertilizer	Herbicides	Insecticides	Fungicides	Manure		
						Solid spreader	Irrigation system	Liquid spreader
Augusta ²	22	2800	1841	435	0	1299	0	99
Bastard & S. Burgess	0	1909	910	6	0	1206	0	0
Bathurst	15	1817	672	88	102	1186	0	63
Beckwith ²	0	1534	736	101	0	853	0	0
Bedford	0	286	154	0	0	269	0	0
Clarence ¹	88	4665	2771	401	122	925	227	892
Cumberland	65	6291	3990	306	184	1432	239	1368
Drummond	0	2297	703	83	21	1769	0	178
Elizabethtown ²	13	2934	1754	211	117	1624	0	340
Front of Yonge ¹	0	1098	585	85	0	490	0	142
Gloucester ²	219	2323	1158	0	165	455	0	0
Goulbourn ²	27	3966	2497	606	0	1401	0	0
Hinchinbrooke	0	270	43	0	0	449	0	0
Kanata ¹	6	152	105	0	0	250	0	0
Kitley ²	0	1371	510	0	0	892	0	0
Montague ²	11	1151	442	339	0	586	0	0
Mountain ¹	262	10005	7466	892	339	1448	137	796
N. Burgess	0	0	76	0	0	385	0	0
N. Crosby	0	684	197	0	0	572	0	0
N. Elmsley	0	726	334	0	0	762	0	0
Nepean ²	47	5163	3664	297	0	404	66	287
Olden ¹	0	289	0	0	0	351	0	0
Osgoode ²	292	10239	7503	1367	885	1562	422	689
Oso ¹	0	88	23	0	0	110	0	0
Oxford on Rideau ²	29	2746	1279	296	7	951	0	214
Rideau ²	11	7508	5494	1167	152	1609	271	391
S. Crosby	21	929	455	27	0	629	0	0
S. Elmsley	0	434	117	0	0	514	0	0
S. Gower ²	2	1130	966	300	0	288	0	0
S. Sherbrooke	0	0	0	0	0	176	0	0
W. Carleton ¹	26	7151	6086	864	622	2935	0	447
Wolford ²	13	1199	573	70	41	479	0	193

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North Crosby - North Crosby, Westport and Newboro

Wolford - Wolford and Merrickville

Oxford-on-Rideau - Oxford-on-Rideau and Kemptville

Montague - Montague and Smiths Falls

Drummond - Drummond and Perth

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Note ¹ – municipalities for which only a very small portion is in the Rideau River watershed

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Source: Statistics Canada, 1996 Agriculture Census

Appendix 13 Number of livestock in municipalities within the Rideau River watershed, 1996.

Municipality	Number of Animals			
	Cows	Pigs	Sheep	Horses
Augusta ²	2392	166	721	147
Bastard & S. Burgess	2446	40	158	158
Bathurst	2047	446	294	89
Beckwith ²	1296	0	663	102
Bedford	800	44	0	23
Clarence ¹	3722	1571	221	162
Cumberland	4341	1796	264	420
Drummond	2799	13	367	93
Elizabethtown ²	2904	2344	879	359
Front of Yonge ¹	908	0	0	27
Gloucester ²	1383	12	0	161
Goulbourn ²	2399	172	611	319
Hinchinbrooke	866	34	497	34
Kanata ¹	901	0	0	51
Kitley ²	1551	0	456	73
Montague ²	1325	27	278	121
Mountain ¹	4204	362	1027	216
N. Burgess	729	0	690	0
N. Crosby	1195	0	151	38
N. Elmsley	1106	0	0	52
Nepean ²	1935	1598	391	75
Olden ¹	493	0	68	32
Osgoode ²	5168	2404	1183	351
Oso ¹	275	0	0	24
Oxford on Rideau ²	1806	84	672	262
Rideau ²	4037	719	1580	347
S. Crosby	1327	24	245	57
S. Elmsley	762	16	166	9
S. Gower ²	398	0	467	126
S. Sherbrooke	260	0	0	0
W. Carleton ¹	7190	3152	1743	856
Wolford ²	1008	0	363	82

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Source: Statistics Canada, 1996 Agriculture Census

Appendix 14 Percentage of land area farmed in municipalities bordering the Rideau River and its tributaries, 1996.

MUNICIPALITY	TOTAL AREA (KM ²)	AREA FARMS (HA)	% FARMLAND
Augusta	314.42	12177	38.7
Beckwith	243.09	9143	37.6
Elizabethtown	333.02	14339	43.1
Gloucester	293.86	7672	26.1
Goulbourn	271.32	12117	44.7
Kitley	226.49	9506	42.0
Montague	283.22	9732	34.4
Nepean	217	10344	47.7
Osgoode	379.86	22475	59.2
Ottawa	110.15	0	0
Oxford-on-Rideau	259.37	9211	35.5
Rideau	408.75	17469	42.7
South Gower	88.85	3425	38.5
Vanier	2.93	0	0
Wolford	211.09	6929	32.8
Total	3643.42	144539	39.7

Sources: Statistics Canada, 1996 Agriculture Census;
 Statistics Canada, Census 1996, Statistical profile of Canadian communities

Appendix 15 Livestock on farms in municipalities bordering the Rideau River and its tributaries, 1996.

MUNICIPALITY	AUG	BEC	ELI	GLO	GOU	KIT	MON	NEP	OSG	OXF	RID	S.GO	WOL	OVERALL
# farms	142	101	159	88	164	95	101	70	289	156	211	71	62	1709
# farms with cows	87	57	103	42	81	61	59	32	160	63	104	20	38	907
# farms with pigs	10	2	14	3	5	2	3	5	10	12	9	7	2	84
# farms with sheep	12	19	14	2	15	11	6	6	19	11	15	7	4	141
# farms with horses	31	25	35	24	46	20	24	7	61	39	53	26	21	412
% farms with cows	61.3	56.4	64.8	47.7	49.4	64.2	58.4	45.7	55.4	40.4	49.3	28.2	61.3	53.1
%farms with pigs	7.0	2.0	8.8	3.4	3.0	2.1	3.0	7.1	3.5	7.7	4.3	9.9	3.2	4.9
% farms with sheep	8.5	18.8	8.8	2.3	9.1	11.6	5.9	8.6	6.6	7.1	7.1	9.9	6.5	8.3
% farms with horses	21.8	24.8	22.0	27.3	28.0	21.1	23.8	10.0	21.1	25.0	25.1	36.6	33.9	24.1
# cows	2392	1296	2904	1383	2399	1551	1325	1935	5168	1806	4037	398	1008	27602
# pigs	166	-	2344	12	172	-	27	1598	2404	84	719	-	-	7526
# sheep	721	663	879	-	611	456	278	391	1183	672	1580	467	363	8264
# horses	147	102	359	161	319	73	121	75	351	262	347	126	82	2525
Avg. cows/farm	27	23	28	33	30	25	22	60	32	29	39	20	27	30
Avg. pigs/farm	17	0	167	4	34	0	9	320	240	7	80	0	0	90
Avg. sheep/farm	60	35	63	0	41	41	46	65	62	61	105	67	91	59
Avg. horses/farm	5	4	10	7	7	4	5	11	6	7	7	5	4	6

AUG – Augusta; BEC – Beckwith; ELI – Elizabethtown; GLO – Gloucester; Gou – Goulbourn; KIT – Kitley; MON – Montague; NEP – Nepean; OSG – Osgoode; OXF – Oxford-on-Rideau; RID – Rideau; S.GO – South Gower; WOL – Wolford.

Source: Statistics Canada, 1996 Agriculture Census