

• MINERAL • AGGREGATES • IN ONTARIO

Statistical Update

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Prepared by:



**THE ONTARIO AGGREGATE
RESOURCES CORPORATION**

MINERAL AGGREGATES IN ONTARIO

PRODUCTION STATISTICS

2001

Prepared by

The Ontario Aggregate Resources Corporation

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MINERAL AGGREGATES IN ONTARIO

Overview

Mineral aggregate is an indispensable commodity to the infrastructure of our modern ‘built environment’. High quality aggregate is a key ingredient in the production of ready-mixed concrete, manufactured concrete products of all types (block, brick, precast, etc.), asphalt pavements and sub-surface fill which is so important in providing drainage and load bearing base for structures. Aggregates literally provide the basis for a \$30 billion construction industry that employs over 270,000 people in Ontario. The aggregate industry employs an estimated 7,000 people directly and some 34,000 people indirectly in services such as transportation and equipment.

In 2001, this basic non-renewable resource was supplied from 2,787 licensed aggregate sites on private land in designated parts of the Province and 3,100 permitted sites on Crown land. It is estimated that over 50% of all aggregate produced in the Province is sold to public authorities for the construction and maintenance of the public infrastructure such as roads, bridges, etc.

Management of Ontario’s Mineral Aggregate Resources

At the Provincial level, the management of Ontario’s aggregate resources is the responsibility of the Ministry of Natural Resources (MNR). In 1997, in an effort to better focus resources on the delivery of core programs, the MNR took steps to build a partnership with private industry to manage certain administrative functions. Accordingly, subsections 6.1 (1) and 6.1 (3) of the *Aggregate Resources Act*, R.S.O. 1990, Chap. A.8, as amended (the “Act”), gave the Minister the power to create the Aggregate Resources Trust (the “Trust”) and appoint a trustee to look after its affairs. TOARC was incorporated in 1997 to act as trustee of the Aggregate Resources Trust, a trust created under the authority of the Aggregate Resources Act and pursuant to a trust indenture between the Corporation and the Minister of Natural Resources for the Province of Ontario.

The Trust Purposes include:

1. The rehabilitation of land for which a Licence or Permit has been revoked and for which final rehabilitation has not been completed;
2. The rehabilitation of abandoned pits and quarries, including surveys and studies respecting their location and condition;
3. Research on aggregate resources management, including rehabilitation;
4. Payments to the Crown in right of Ontario and to regional municipalities, counties and local municipalities in accordance with regulations made pursuant to the Act;
5. The management of the Abandoned Pits and Quarries Rehabilitation Fund;
6. Such other purposes as may be provided for by or pursuant to Paragraph 6.1(2) 5 of the Act.

In August of 1999, Addendum 1 to the Original Trust Indenture was signed to expand the Trust Purposes to include:

- (a) The education and training of persons engaged in or interested in the management of the aggregate resources of Ontario, the operation of pits or quarries, or the rehabilitation of land from which aggregate has been excavated;
- (b) The gathering, publishing and dissemination of information relating to the management of the aggregate resources of Ontario, the control and regulation of aggregate operations and the rehabilitation of land from which aggregate has been excavated.

TOARC is owned by the APAO as the single shareholder, but is directed by a multi-stakeholder board of directors. The seven-member Board is composed of APAO directors and representatives from environmental groups, municipalities and non-APAO member aggregate producers. TOARC is arms-length from APAO in terms of separate office facilities and management staff. TOARC as the ARA trustee is responsible to the Minister of Natural Resources to fulfill the Trust purposes as outlined in Bill 52. The MNR maintains a presence on the Board with an ex officio representative.

Since its inception in 1997, TOARC has developed systems for the efficient collection and disbursement of aggregate resource charges including an audit program to ensure production is reported properly. On behalf of the Trust, TOARC continues with the rehabilitation of abandoned pits and quarries through the MAAP program, the general management of the Trust assets and has undertaken the rehabilitation and monitoring of sites where licenses have been revoked.

Role of the Ministry of Natural Resources

While the MNR has developed certain external partnerships for the delivery of portions of their Aggregate Resources Program, their mission remains:

- To protect the provincial interest in aggregate resources and develop, maintain and enforce appropriate technical standards.
- To provide leadership in the development of partnerships with key stakeholders for the effective management of aggregate resources to benefit the people of Ontario.

With the guidance of the mission statements, a number of program objectives have been created which drive MNR's daily business practices. These program objectives include:

- Promote exploration and ensure availability through the conservation and orderly development of aggregate resources.

- Ensure that aggregate resources are developed with a high standard of environmental protection and public safety.
- Upgrade and maintain current information databases essential for sound technical and scientific decisions.
- Ensure fair revenue from the production of Crown resources.
- Ensure industry compliance with technical standards.
- Train staff and external clients in skills and knowledge essential for the effective delivery of the Aggregate Resources Program.

The continued business approach for the Aggregate Resources Program is based on the following principles:

- The core business of the program is:
 - Standards and policy development
 - Technical approvals
 - Ensuring compliance with standards
- Private industry clients assume responsibility and accountability for:
 - Compliance reporting
 - Financial management
 - Operations

Regional technical committees have been established that provide continuous feedback and solutions to technical issues in the delivery of the Aggregate Resources Program. The Non-Renewable Resources Section provides coordination and leadership to these committees.

The delegation of authority policy approved in July of 1998 continues. The objective of this policy is to delegate Ministerial authority to the level that provides the best efficiencies and customer service. Standing committees with the industry continue to encourage ongoing communication and customer service.

Core program staff responsible for the standards and policy development, program design and program coordination, evaluation and monitoring are part of the Non Renewable Resources Section, Lands and Natural Heritage Branch, Natural Resource Management Division. The districts that have either Aggregate Resources Officers or Aggregate Technicians deliver this program. The specialists and technicians, who are designated inspectors, are the core staff responsible for the acceptance of applications and are leads when dealing with compliance. These inspectors often have responsibility beyond the administrative boundaries of their districts. Also, at the district level, reporting to the Compliance Supervisor, Conservation Officers take an active role in enforcement actions under the Aggregate Resources Act.

In 1997, certain responsibilities with respect to the issuing and administration of permits and wayside permits were delegated to the Ontario Ministry of Transportation (MTO), specific to MTO contracts and needs.

Aggregate Production

Production of mineral aggregates in 2001 totaled approximately 167 million tonnes, down 2.4% from the previous year. Production from licensed operations remained relatively unchanged from 2000, at approximately 145 million tonnes. Wayside Permit production was down substantially, 64% from 2000 but on a small overall tonnage (.6 million in 2000 compared to .2 million in 2001.) Production from Aggregate Permits on Crown Land was also down 30% but on much larger tonnage, decreasing by approximately 2.5 million tonnes to 7 million tonnes compared to 10 million tonnes in 2000.

Table 1

AGGREGATE PRODUCTION IN ONTARIO - 1989 - 2001
(rounded to nearest million tonnes)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Licences	154	135	107	101	105	113	109	114	124	124	131	145	145
Wayside Permits*	4	3	2	2	2	2	2	2	1	2	1	1	0
Aggregate Permits	25	11	14	13	12	10	9	9	8	9	11	10	7
Category 14 (Forest Industry)**	-	-	-	-	-	-	-	-	-	-	2	3	3
Private Land Non-Designated (estimated)	14	12	12	12	12	11	10	11	11	11	12	12	12
ONTARIO TOTAL	197	161	135	128	131	136	130	136	144	146	157	171	167

*Wayside Permit production is reported as the total applied tonnage of all permits issued, adjusted where actual tonnages for completed contracts are known.

**Actual production for Wayside Permits in 2001 was just over .2 million tonnes.

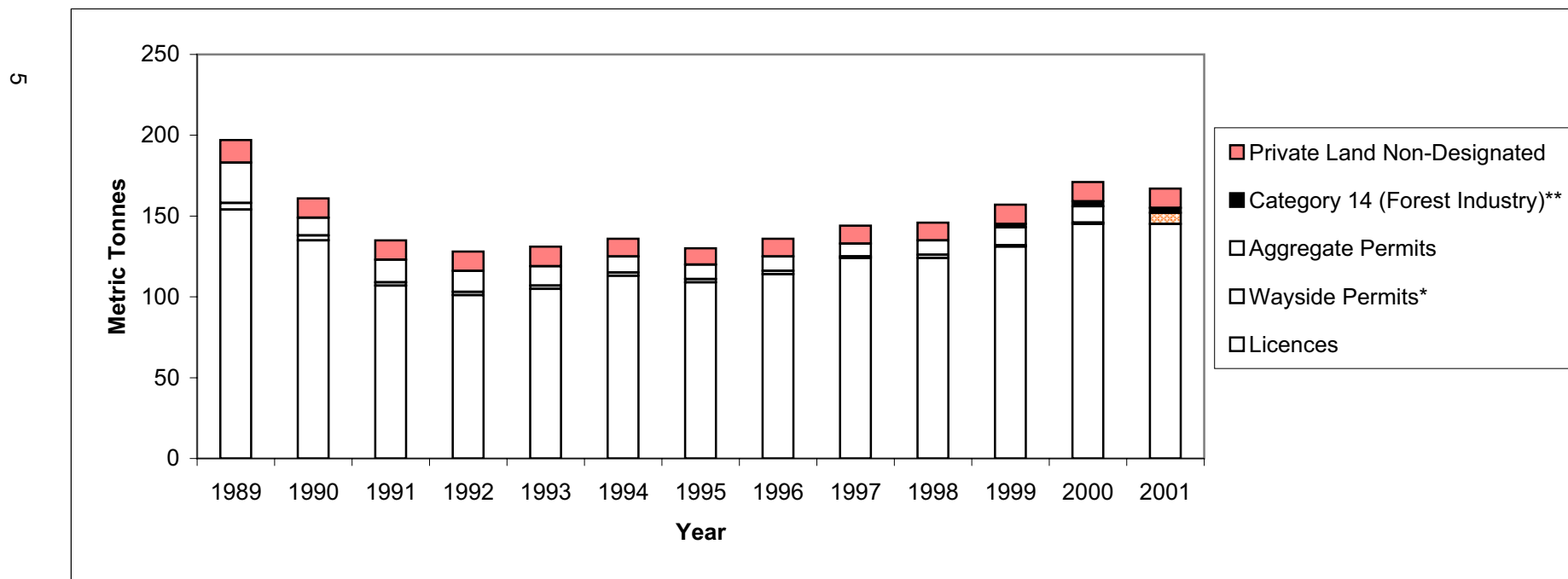


Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**

(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
<i>Algoma District</i>			
Algoma District, Unorganized	22,303.24		22,303.24
Hilton Tp	17,486.60		17,486.60
Jocelyn Tp	10,548.54		10,548.54
Johnson/Tarbutt & Tarbutt Add'l Tp	33,502.50		33,502.50
St. Joseph/Laird/Macdonald, Meredith & Aberdeen Add'l Tp	29,113.54		29,113.54
Sault Ste. Marie, City of	476,628.37		476,628.37
Sub-Total	589,582.79	0.00	589,582.79
<i>Brant</i>			
Brant, County of/Brantford, City of	2,061,950.18		2,061,950.18
Sub-Total	2,061,950.18	0.00	2,061,950.18
<i>Bruce</i>			
Arran-Elderslie, Municipality of	129,719.18		129,719.18
Brockton, Municipality of	155,396.04		155,396.04
Huron-Kinloss Tp	189,990.15		189,990.15
Kincardine, Municipality of	46,312.47		46,312.47
Northern Bruce Peninsula, Municipality of	158,909.09		158,909.09
Saugeen Shores, Town of	233,155.94		233,155.94
South Bruce, Municipality of	454,181.53		454,181.53
South Bruce Peninsula, Town of	199,095.42		199,095.42
Sub-Total	1,566,759.82	0.00	1,566,759.82
<i>Chatham-Kent</i>			
Chatham-Kent, Municipality of	350,349.24		350,349.24
Sub-Total	350,349.24	0.00	350,349.24
<i>Dufferin</i>			
Amaranth/East Luther Grand Valley Tp	325,379.57		325,379.57
East Garafraxa Tp	906,012.68		906,012.68
Melancthon Tp	267,620.20		267,620.20
Mono Tp	539,092.00		539,092.00
Mulmur Tp	406,341.77		406,341.77
Sub-Total	2,444,446.22	0.00	2,444,446.22
<i>Durham</i>			
Brock Tp	1,307,678.58		1,307,678.58
Clarington, Municipality of	4,683,869.13		4,683,869.13
Oshawa, City of/Whitby, Town of/Scugog Tp	333,090.48		333,090.48
Uxbridge Tp	5,070,812.04		5,070,812.04
Sub-Total	11,395,450.23	0.00	11,395,450.23
<i>Elgin</i>			
Bayham, Municipality of/Malahide Tp	56,202.94		56,202.94
Central Elgin, Municipality of	399,009.30		399,009.30
West Elgin, Municipality of	97,711.12		97,711.12
Sub-Total	552,923.36	0.00	552,923.36

Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**
(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
Essex			
Amherstburg Tp/Leamington, Municipality of/Pelee Tp	1,848,822.87		1,848,822.87
Kingsville, Town of	390,446.58		390,446.58
Sub-Total	2,239,269.45	0.00	2,239,269.45
Frontenac			
Frontenac Islands Tp	32,792.32		32,792.32
Kingston, City of	907,927.47		907,927.47
South Frontenac Tp	358,314.27		358,314.27
Sub-Total	1,299,034.06	0.00	1,299,034.06
Grey			
Blue Mountains, Town of	279,116.06	32,000.00	311,116.06
Chatsworth Tp	327,002.69	68,000.00	395,002.69
Georgian Bluffs, Tp	540,672.99	20,000.00	560,672.99
Grey Highlands, Municipality of	335,971.39	56,240.00	392,211.39
Meaford, Municipality of	303,459.69		303,459.69
Southgate Tp	218,682.22	33,247.00	251,929.22
West Grey Tp	356,583.37		356,583.37
Sub-Total	2,361,488.41	209,487.00	2,570,975.41
Haldimand			
Haldimand, County of	1,496,605.30		1,496,605.30
Sub-Total	1,496,605.30	0.00	1,496,605.30
Halton			
Burlington, City of/Halton Hills, Town of	7,022,388.69		7,022,388.69
Milton, Town of	8,791,180.61		8,791,180.61
Sub-Total	15,813,569.30	0.00	15,813,569.30
Hamilton			
Hamilton, City of	5,987,892.06		5,987,892.06
Sub-Total	5,987,892.06	0.00	5,987,892.06
Hastings			
Belleville, City of	358,874.39		358,874.39
Centre Hastings, Municipality of	137,350.45		137,350.45
Madoc Tp	693,962.80		693,962.80
Marmora & Lake Tp	9,908.72		9,908.72
Quinte West, City of	592,844.84		592,844.84
Stirling-Rawdon/Tyendinaga Tp	184,138.22		184,138.22
Tweed, Municipality of	53,349.45		53,349.45
Sub-Total	2,030,428.87	0.00	2,030,428.87

Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**

(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
<i>Huron</i>			
Ashfield-Colborne-Wawanosh Tp	720,022.18		720,022.18
Bluewater, Municipality of	7,255.00		7,255.00
Central Huron, Municipality of	609,643.62		609,643.62
Howick Tp	196,695.84		196,695.84
Huron East, Municipality of	1,214,244.48		1,214,244.48
Morris-Turnberry, Municipality of	176,089.54		176,089.54
North Huron Tp	96,989.48		96,989.48
South Huron, Municipality of	53,887.56		53,887.56
Sub-Total	3,074,827.70	0.00	3,074,827.70
<i>Kawartha Lakes</i>			
Kawartha Lakes, City of	6,358,258.15		6,358,258.15
Sub-Total	6,358,258.15	0.00	6,358,258.15
<i>Lambton</i>			
Lambton Shores, Municipality of	112,693.42		112,693.42
Enniskillen/Warwick Tp/Plympton-Wyoming, Town of	376,269.91		376,269.91
Sub-Total	488,963.33	0.00	488,963.33
<i>Lanark</i>			
Bathurst, Burgess, Sherbrooke/Beckwith Tp	96,426.50		96,426.50
Drummond-North Elmsley Tp	131,106.90		131,106.90
Lanark Highlands Tp	1,308,063.35		1,308,063.35
Mississippi Mills, Town of	118,168.88		118,168.88
Montague Tp	85,076.53		85,076.53
Sub-Total	1,738,842.16	0.00	1,738,842.16
<i>Leeds & Grenville</i>			
Augusta Tp	80,958.59		80,958.59
Athens/Front of Yonge Tp	151,349.10		151,349.10
Edwardsburgh/Cardinal Tp	254,753.69		254,753.69
Elizabethtown-Kitley Tp	566,049.88		566,049.88
Leeds and the Thousand Islands	684,039.97		684,039.97
Merrickville-Wolford, Village of	133,079.58		133,079.58
North Grenville Tp	339,041.65		339,041.65
Rideau Lakes Tp	90,120.12		90,120.12
Sub-Total	2,299,392.58	0.00	2,299,392.58
<i>Lennox & Addington</i>			
Greater Napanee, Town of	236,162.03		236,162.03
Loyalist/Stone Mills Tp	1,574,347.87		1,574,347.87
Sub-Total	1,810,509.90	0.00	1,810,509.90

Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**

(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
Middlesex			
Adelaide Metcalfe/Lucan Biddulph Tp	27,526.35		27,526.35
London, City of	2,669,253.08		2,669,253.08
Middlesex Centre Tp	841,634.69		841,634.69
North Middlesex, Municipality of	143,227.35		143,227.35
Strathroy-Caradoc Tp	24,377.20		24,377.20
Thames Centre, Municipality of	2,289,041.04		2,289,041.04
Sub-Total	5,995,059.71	0.00	5,995,059.71
Niagara			
Fort Erie/Pelham, Town of/Port Colborne, City of/Wainfleet Tp	1,832,248.79		1,832,248.79
Lincoln/Niagara-on-the-Lake, Town of	1,564,156.90		1,564,156.90
Niagara Falls, City of	1,179,128.10		1,179,128.10
Sub-Total	4,575,533.79	0.00	4,575,533.79
Norfolk			
Norfolk, County of	393,462.94		393,462.94
Sub-Total	393,462.94	0.00	393,462.94
Northumberland			
Alnwick/Haldimand Tp/Port Hope and Hope, Town of	249,787.60		249,787.60
Brighton, Municipality of	332,744.03		332,744.03
Cramahe Tp	1,975,810.56		1,975,810.56
Hamilton Tp	354,626.94		354,626.94
Trent Hills, Municipality of	168,152.51		168,152.51
Sub-Total	3,081,121.64	0.00	3,081,121.64
Ottawa			
Ottawa, City of	10,121,104.14		10,121,104.14
Sub-Total	10,121,104.14	0.00	10,121,104.14
Oxford			
Blandford-Blenheim Tp	395,688.07		395,688.07
East Zorra-Tavistock/Norwich Tp	160,803.86		160,803.86
South-West Oxford Tp	832,072.74		832,072.74
Zorra Tp	3,534,377.09		3,534,377.09
Sub-Total	4,922,941.76	0.00	4,922,941.76
Peel			
Brampton/Mississauga, City of	303,267.75		303,267.75
Caledon, Town of	4,930,982.73		4,930,982.73
Sub-Total	5,234,250.48	0.00	5,234,250.48
Perth			
North Perth, Town of/St. Marys, Separated Town of	238,580.42		238,580.42
Perth East Tp	298,843.31		298,843.31
Perth South Tp	1,335,242.14		1,335,242.14
West Perth Tp	190,473.60		190,473.60
Sub-Total	2,063,139.47	0.00	2,063,139.47

Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**

(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
<i>Peterborough</i>			
Asphodel-Norwood Tp	223,793.28		223,793.28
Douro-Dummer Tp	473,481.76		473,481.76
Galway-Cavendish-Harvey Tp	248,320.78		248,320.78
Havelock-Belmont-Methuen Tp	331,609.31		331,609.31
Cavan-Millbrook-North Monaghan Tp	85,163.59		85,163.59
Otonabee-South Monaghan Tp	448,625.31		448,625.31
Smith-Ennismore-Lakefield Tp	635,972.25		635,972.25
Sub-Total	2,446,966.28	0.00	2,446,966.28
<i>Prescott & Russell</i>			
Alfred & Plantagenet Tp	167,042.59		167,042.59
Champlain Tp	456,078.50		456,078.50
Clarence-Rockland, City of	302,900.97		302,900.97
East Hawkesbury Tp	47,253.40		47,253.40
The Nation, Municipality of	185,385.49		185,385.49
Russell Tp	231,017.86		231,017.86
Sub-Total	1,389,678.81	0.00	1,389,678.81
<i>Prince Edward Co</i>			
Prince Edward, County of	2,015,881.79		2,015,881.79
Sub-Total	2,015,881.79	0.00	2,015,881.79
<i>Renfrew</i>			
Admaston/Bromley Tp/Renfrew, Town of	48,213.65		48,213.65
Horton/Greater Madawaska Tp	330,363.59		330,363.59
Laurentian Valley Tp	245,073.28		245,073.28
McNab-Braeside Tp	241,702.23		241,702.23
Petawawa, Town of	228,119.87		228,119.87
Whitewater Region Tp	122,446.27		122,446.27
Sub-Total	1,215,918.89	0.00	1,215,918.89
<i>Simcoe</i>			
Adjala-Tosorontio Tp/Collingwood, Town of/Barrie, City of	830,557.26		830,557.26
Bradford West Gwillimbury/Midland/Wasaga Beach, Town of	222,022.36		222,022.36
Clearview Tp	1,219,245.40		1,219,245.40
Essa Tp	100,763.45		100,763.45
Innisfil, Town of	91,415.83		91,415.83
New Tecumseth, Town of	45,582.91		45,582.91
Oro-Medonte Tp	2,121,761.07		2,121,761.07
Ramara Tp	2,510,118.81		2,510,118.81
Severn Tp	1,737,873.30		1,737,873.30
Springwater Tp	1,441,308.88		1,441,308.88
Tay Tp	132,028.16		132,028.16
Tiny Tp	219,630.81		219,630.81
Sub-Total	10,672,308.24	0.00	10,672,308.24

Table 2

**LICENCE AND WAYSIDE PERMIT PRODUCTION
BY LOWER TIER MUNICIPALITY**

(Reported in Metric Tonnes)

Municipality	Licences	Wayside Permits	Total
<i>Stormont, Dundas & Glengarry</i>			
North Dundas Tp	617,270.08		617,270.08
North Glengarry Tp	260,777.28		260,777.28
North Stormont Tp	679,691.79		679,691.79
South Dundas Tp	257,517.21		257,517.21
South Glengarry Tp	199,332.13		199,332.13
South Stormont Tp	656,121.89		656,121.89
Sub-Total	2,670,710.38	0.00	2,670,710.38
<i>Sudbury</i>			
Greater Sudbury, City of	1,811,141.83		1,811,141.83
Sub-Total	1,811,141.83	0.00	1,811,141.83
<i>Sudbury District</i>			
Baldwin Tp/ St. Charles, Municipality of	39,820.44		39,820.44
French River, Municipality of/Nairn & Hyman Tp	146,184.26		146,184.26
Markstay-Warren, Municipality of	81,705.16		81,705.16
Sables Spanish Rivers Tp/Espanola, Town of	41,662.18		41,662.18
Sudbury District, Unorganized	673,861.58		673,861.58
Sub-Total	983,233.62	0.00	983,233.62
<i>Waterloo</i>			
Cambridge/Kitchener, City of	1,729,447.95		1,729,447.95
North Dumfries Tp	3,700,932.40		3,700,932.40
Wellesley Tp	1,201,799.99		1,201,799.99
Wilmot Tp	932,436.94		932,436.94
Woolwich Tp	652,636.34		652,636.34
Sub-Total	8,217,253.62	0.00	8,217,253.62
<i>Wellington</i>			
Centre Wellington Tp	975,670.74		975,670.74
Erin, Town of	1,552,158.13		1,552,158.13
Guelph-Eramosa Tp	139,277.83		139,277.83
Mapleton Tp	98,677.80		98,677.80
Minto, Town of	498,306.59		498,306.59
Puslinch Tp	5,486,359.20		5,486,359.20
Wellington North Tp	152,862.33		152,862.33
Sub-Total	8,903,312.62	0.00	8,903,312.62
<i>York</i>			
East Gwillimbury, Town of	399,987.06		399,987.06
Georgina, Town of	59,257.26		59,257.26
King Tp/Vaughan, City of	343,037.87		343,037.87
Whitchurch-Stouffville, Town of	1,641,397.00		1,641,397.00
Sub-Total	2,443,679.19	0.00	2,443,679.19
GRAND TOTAL	145,117,242.31	209,487.00	145,326,729.31

Table 3

**LICENCE AND WAYSIDE PRODUCTION
BY UPPER TIER MUNICIPALITY
(Million Tonnes)**

Municipality	1993	1994	1995	1996	1997	1998	1999	2000	2001
Algoma, District of	0.4	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.6
Brant Co.	1.1	1.3	1.6	1.7	2.1	1.5	1.5	2.1	2.0
Bruce Co.	2.0	1.8	1.5	1.2	1.3	1.6	1.5	1.7	1.6
Chatham-Kent, R. M. of	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.3
Dufferin Co.	1.3	1.6	1.4	1.5	1.5	1.8	2.1	2.6	2.4
Durham, R. M. of	6.6	7.1	7.2	7.6	8.7	7.8	9.2	10.2	11.4
Elgin Co.	0.6	0.5	0.4	0.5	0.7	0.4	0.6	0.7	0.6
Essex Co.	2.8	2.7	2.4	2.2	2.7	2.0	1.9	2.0	2.2
Frontenac, Management Board	1.4	1.5	1.2	1.6	1.5	1.2	1.3	1.4	1.3
Grey Co.	2.4	2.7	2.4	2.0	2.1	2.1	2.8	2.5	2.6
Haldimand Co.	----	----	----	----	----	----	----	----	1.5
Haldimand-Norfolk, R. M. of	1.8	1.9	1.9	1.7	2.1	1.8	2.0	2.0	----
Halton, R. M. of	9.2	9.7	10.7	12.3	14.4	13.4	13.8	15.5	15.8
Hamilton-Wentworth, R. M. of	3.4	3.9	4.0	4.0	5.2	4.7	4.6	6.3	6.0
Hastings Co.	1.5	1.2	1.4	1.6	2.0	1.9	2.2	2.0	2.0
Huron Co.	2.1	2.9	2.8	2.8	2.4	2.6	2.8	2.7	3.1
Kawartha Lakes	----	----	----	----	----	----	----	----	6.4
Lambton Co.	0.4	0.6	0.6	0.4	0.5	0.6	0.6	0.5	0.5
Lanark Co.	0.9	1.1	1.3	1.2	1.2	1.3	1.5	1.6	1.7
Leeds & Grenville Co.'s	2.0	2.4	2.3	2.0	2.1	4.2	2.2	3.0	2.3
Lennox & Addington Co.	1.9	1.7	2.0	1.8	1.7	1.9	1.7	1.8	1.8
Middlesex Co.	5.0	4.9	4.5	4.5	5.3	6.1	5.6	6.4	6.0
Niagara, R. M. of	3.5	4.1	3.6	4.7	4.9	4.6	4.3	4.6	4.6
Norfolk Co.	----	----	----	----	----	----	----	----	0.4
Northumberland Co.	3.0	3.0	2.6	3.0	3.2	3.2	3.6	3.2	3.1
Ottawa-Carleton, R. M. of	9.2	9.3	8.4	6.1	6.7	7.1	8.1	10.7	10.1
Oxford Co.	4.9	4.6	5.0	4.6	5.3	4.9	5.1	5.4	4.9
Peel, R. M. of	2.9	3.1	3.7	3.8	4.3	4.2	4.5	5.2	5.2
Perth Co.	1.4	1.7	1.6	1.9	1.7	1.7	1.6	2.1	2.1
Peterborough Co.	2.6	2.2	1.8	1.8	1.8	1.8	1.8	2.2	2.4
Prescott & Russell Co.'s	1.7	1.9	1.3	1.2	1.4	1.1	1.2	1.4	1.4
Prince Edward Co.	1.5	1.9	2.2	1.8	2.1	2.0	2.0	2.1	2.0
Renfrew Co.	ND	1.1	1.3	1.5	1.2	1.3	1.5	1.5	1.2
Simcoe Co.	6.9	6.2	6.8	7.4	7.6	9.0	9.0	9.3	10.7
Stormont, Dundas & Glengarry Co.'s	2.6	2.6	2.3	2.1	2.4	2.4	2.8	3.0	2.7
Sudbury, District of	0.5	0.5	0.3	0.3	0.2	0.2	0.4	0.5	1.0
Sudbury, R. M. of	2.2	2.9	2.9	2.7	2.5	2.3	2.9	2.3	1.8
Victoria Co.	5.1	5.4	4.9	6.0	6.5	6.6	6.0	7.1	----
Waterloo, R. M. of	4.7	5.8	5.8	5.8	5.6	5.8	7.3	7.7	8.2
Wellington Co.	5.5	5.6	4.9	6.0	6.4	6.9	7.5	8.4	9.0
York, R. M. of	1.4	1.9	2.2	2.0	2.6	2.2	2.7	3.0	2.4
TOTAL	106.8	114.3	112.2	114.3	125.0	125.2	131.5	146.0	145.3

ND: Not Designated under the Aggregate Resources Act.

Note: As of January 1, 2001 Victoria County is now known as The City of Kawartha Lakes.

As of January 1, 2001 Haldimand-Norfolk has been split into two different counties;
Haldimand County and Norfolk County.

Table 4

**LICENCE PRODUCTION IN 2001
THE TOP TEN PRODUCING MUNICIPALITIES
(Rounded to nearest million tonnes)**

	Municipality	County/Region	2001 Production	Production				
				2000	1999	1998	1997	1996
1	City of Ottawa ⁽¹⁾	City of Ottawa	10.1	10.6	8.1	7.1	6.7	6.1
2	Town of Milton	Halton	8.8	9.0	7.7	7.9	9.6	8.6
3	City of Burlington/ Town of Halton Hills	Halton	7.0	6.5	6.1	5.5	4.7	3.7
4	City of Kawartha Lakes ⁽²⁾	City of Kawartha Lakes	6.4	7.1	6.0	6.6	6.5	6.0
5	City of Hamilton ⁽³⁾	City of Hamilton	6.0	6.3	4.6	4.7	5.2	4.0
6	Puslinch Township	Wellington County	5.5	4.1	3.9	3.8	3.5	3.2
7	Township of Uxbridge	Durham	5.0	4.1	3.4	3.2	3.1	3.3
8	Town of Caledon	Peel	4.9	5.0	4.2	3.9	4.0	3.5
9	Municipality of Clarington	Durham	4.7	4.3	3.8	3.0	3.9	3.1
10	Township of North Dumfries	Waterloo, R. M. of	3.7	3.5	3.2	2.5	2.4	2.9
Total			62.1	60.5	51.0	48.2	49.6	44.4

Note: Municipalities are ranked in order of their licenced production for 2001

Production statistics for 1996 - 2000 include tonnage of the pre-amalgamated cites and townships of :

⁽¹⁾ Cities of Ottawa, Gloucester and Neapean, Townships of Cumberland, Goulborn, Osgoode, Rideau and West Carleton

⁽²⁾ Townships of Bexley, Laxton, Digby & Longford, Bobcaygeon, Carden/Dalton, Eldon, Emily, Fenelon, Manvers, Mariposa, Somerville

⁽³⁾ Cities of Hamilton and Stoney Creek, Towns of Ancaster, Dundas and Glanbrook

Table 5

**NUMBER AND TYPE OF AGGREGATE LICENCES
AS OF JUNE 30, 2001**

District	No. of Licences	Category		Type of Operation			
		Class A	Class B	Pit	Quarry	Pit & Quarry	Underwater
Aurora (GTA)	176	153	23	160	16	0	0
Aylmer	320	234	86	303	11	6	0
Bancroft	37	13	24	18	14	5	0
Guelph (Cambridge)	463	375	88	429	31	3	0
Kemptville	506	269	237	368	116	21	1
Midhurst	462	339	123	423	36	3	0
Pembroke	113	55	58	100	7	6	0
Peterborough (Tweed)	504	272	232	405	86	13	0
Sault Ste. Marie	69	31	38	63	1	5	0
Sudbury	137	95	42	115	5	17	0
TOTAL	2787	1836	951	2384	323	79	1

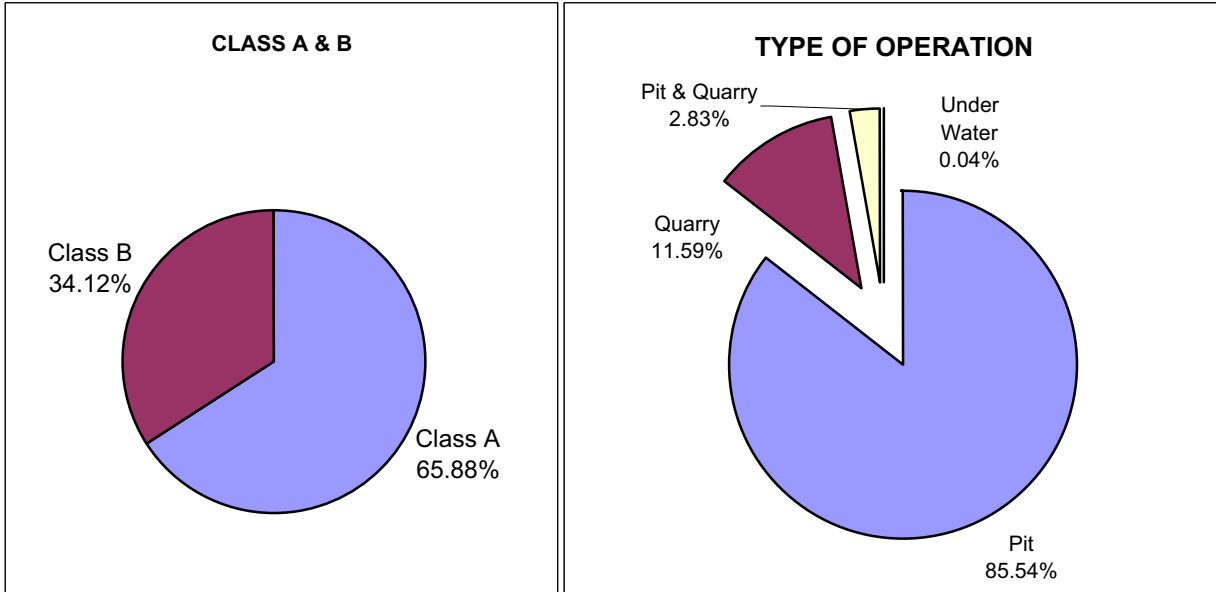


Table 6

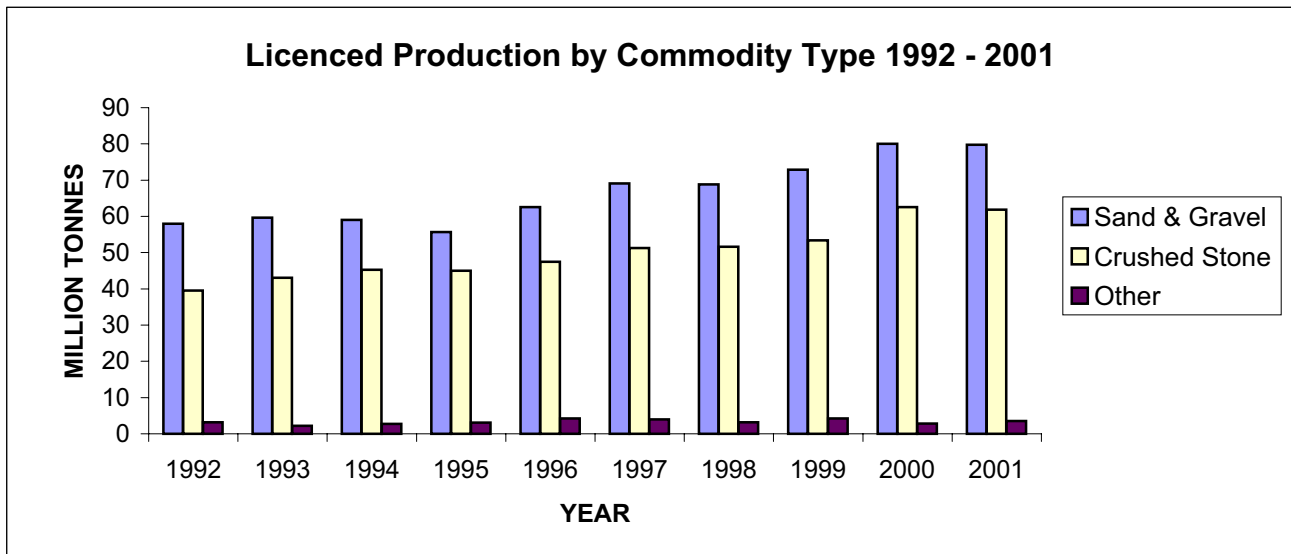
**2001 LICENCED AGGREGATE PRODUCTION
BY COMMODITY TYPE
(Reported by MNR District)**

District	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Aurora (GTA)	34,886,949.20	15,707,530.07	17,135,820.42	1,290,465.12	753,133.59
Aylmer	14,949,239.79	10,824,181.55	4,122,444.24	2,614.00	0.00
Bancroft	2,260,978.05	97,889.72	2,141,443.55	176.91	21,467.87
Guelph (Cambridge)	36,588,090.81	24,042,927.49	12,351,430.70	193,668.62	64.00
Kemptville	18,210,039.07	5,358,565.03	11,900,724.12	132,667.16	818,082.76
Midhurst	16,831,156.62	11,224,027.05	5,387,696.21	72,828.92	146,604.44
Pembroke	1,225,607.89	1,042,689.69	182,835.84	0.00	82.36
Peterborough	16,781,222.64	8,433,703.79	8,287,131.00	26,770.50	33,617.35
Sault Ste. Marie	589,582.79	515,137.02	44,432.60	0.00	30,013.17
Sudbury	2,794,375.45	2,483,803.52	289,436.09	20,074.84	1,061.00
TOTAL	145,117,242.31	79,730,454.93	61,843,394.77	1,739,266.07	1,804,126.54

Note: Totals may not equal due to rounding

Other Stone includes building stone, industrial stone, dimensional stone

Reported in metric tonnes



**Yearly Production for Aggregate Licences
(in Million Tonnes)**

	Sand & Gravel	Crushed Stone	Other
1992	57.99	39.52	3.15
1993	59.62	43.04	2.19
1994	59.07	45.28	2.76
1995	55.70	45.01	3.09
1996	62.52	47.48	4.27
1997	69.05	51.23	4.01
1998	68.84	51.64	3.20
1999	72.87	53.40	4.26
2000	80.07	62.57	2.85
2001	79.73	61.84	3.54

Table 7

**2001 AGGREGATE PERMIT PRODUCTION
BY COMMODITY TYPE
(Reported by MNR District)**

Region/District	Total Production	Sand & Gravel	Crushed Stone	Clay/Shale	Other Stone
NORTHEAST					
Chapleau	151,909.21	151,909.21	-	-	-
Cochrane	387,729.16	311,661.16	75,296.00	-	772.00
Hearst	248,327.30	168,572.29	79,101.00	-	654.01
Kirkland Lake	622,170.42	621,896.26	274.16	-	-
North Bay	528,357.53	520,972.90	7,147.00	-	237.63
Sault Ste. Marie	90,548.38	86,690.38	-	3,800.00	58.00
Sudbury	164,943.71	91,868.45	62,674.94	-	10,400.32
Timmins	958,953.29	948,321.73	10,631.56	-	-
Wawa	624,451.55	598,162.55	-	26,289.00	-
Sub-Total	3,777,390.55	3,500,054.93	235,124.66	30,089.00	12,121.96
NORTHWEST					
Dryden	570,001.28	428,131.28	141,847.00	-	23.00
Fort Frances	504,597.34	484,221.74	19,832.00	-	543.60
Kenora	332,243.33	302,155.94	20,400.00	-	9,687.39
Nipigon	491,833.61	480,988.61	8,441.00	-	2,404.00
Red Lake	410,412.42	408,516.42	600.00	-	1,296.00
Sioux Lookout	221,532.00	220,777.20	-	-	754.80
Thunder Bay	287,371.85	287,126.52	-	-	245.33
Sub-Total	2,817,991.83	2,611,917.71	191,120.00	0.00	14,954.12
SOUTHCENTRAL					
Algonquin Park	46,046.00	46,046.00	-	-	-
Aurora (GTA)	0.00	-	-	-	-
Aylmer	562.00	562.00	-	-	-
Bancroft	182,746.05	92,433.26	68,809.45	1,904.00	19,599.34
Guelph (Cambridge)	0.00	0.00	-	-	-
Kemptville	96,304.84	96,304.84	-	-	-
Midhurst	2,441.00	2,441.00	-	-	-
Parry Sound	394,843.56	207,903.44	185,865.12	-	1,075.00
Pembroke	39,084.58	39,084.58	-	-	-
Peterborough (Tweed)	80.20	-	-	-	80.20
Sub-Total	762,108.23	484,775.12	254,674.57	1,904.00	20,754.54
TOTAL	7,357,490.61	6,596,747.76	680,919.23	31,993.00	47,830.62

Note: Amounts shown are in metric tonnes

Table 8

**2001 AGGREGATE PERMIT PRODUCTION
BY COMMODITY TYPE
(Reported by CPCA* Geographic Areas)**

Area	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Southwest (1)	562	562	0	0	0
Peninsula (2)	0	0	0	0	0
West Central (3)	2,441	2,441	0	0	0
GTA (4)	0	0	0	0	0
East Central (5)	182,826	92,433	68,809	1,904	19,680
East (6)	135,389	135,389	0	0	0
Northeast (7)	3,593,829	3,155,842	420,990	3,800	13,197
Northwest (8)	3,442,443	3,210,080	191,120	26,289	14,954
TOTAL	7,357,491	6,596,748	680,919	31,993	47,831

Note: Totals may not equal due to rounding

Other Stone includes building stone, industrial stone, dimensional stone

Amounts shown are in metric tonnes

*CPCA - Canadian Portland Cement Association

**2001 AGGREGATE LICENCE PRODUCTION
BY COMMODITY TYPE
(Reported by CPCA* Geographic Areas)**

Area	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Southwest (1)	19,687,474	14,740,752	4,827,778	118,880	64
Peninsula (2)	14,515,444	2,868,781	11,596,235	50,429	0
West Central (3)	34,165,569	28,481,604	5,437,558	99,803	146,604
GTA (4)	34,886,949	15,707,530	17,135,820	1,290,465	753,134
East Central (5)	15,932,657	8,119,699	7,771,349	12,757	28,852
East (6)	22,545,191	6,813,150	14,740,785	146,858	844,398
Northeast (7)	2,794,375	2,483,804	289,436	20,075	1,061
Northwest (8)	589,583	515,137	44,433	0	30,013
TOTAL	145,117,242	79,730,455	61,843,395	1,739,266	1,804,127

Note: Totals may not equal due to rounding

Other Stone includes building stone, industrial stone, dimensional stone

Amounts shown are in metric tonnes

*CPCA - Canadian Portland Cement Association

Table 9

**REHABILITATION OF
LICENCED AGGREGATE SITES IN 2001
(Reported by MNR District)**

District	Total No. of Licences	Total Licenced Area	Original Disturbed Area	New Disturbed Area	New Rehab. Area	Total Disturbed Area
Aurora (GTA)	176	9,440.34	3,627.40	173.44	95.64	3,705.20
Aylmer	320	8,561.82	3,117.72	112.86	140.41	3,090.17
Bancroft	37	1,482.78	239.03	26.59	7.35	258.27
Guelph (Cambridge)	463	16,413.54	4,364.89	199.61	125.22	4,439.28
Kemptville	506	14,121.53	3,739.30	169.38	38.27	3,870.42
Midhurst	462	13,342.49	3,247.05	149.90	95.62	3,301.33
Pembroke	113	3,252.83	408.96	31.67	3.52	437.11
Peterborough (Tweed)	504	13,474.14	3,294.51	103.39	45.73	3,352.16
Sault Ste. Marie	69	2,939.66	309.86	4.64	2.18	312.32
Sudbury	137	9,982.02	786.96	14.28	14.96	786.28
TOTAL	2,787	93,011.15	23,135.69	985.76	568.91	23,552.55

Note: Areas shown are in hectares

These statistics are compiled from information supplied by licencees and are not independently checked for accuracy.

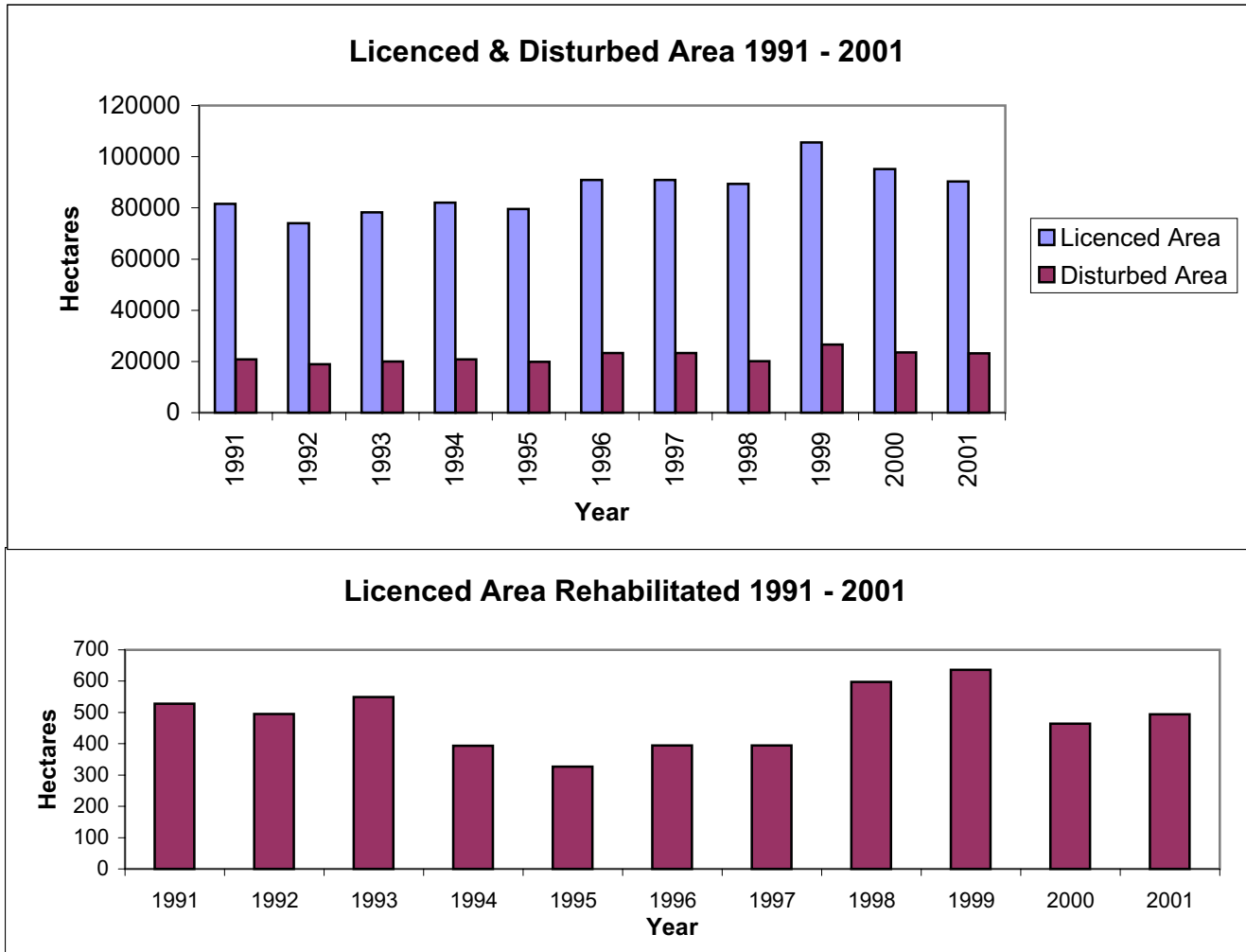


Table 10

**NUMBER AND TYPE OF AGGREGATE PERMITS
(Reported by MNR District)**

Region/District	Total Hectarage	Total No. of Permits	Pit	Quarry	Pit & Quarry	Underwater
NORTHEAST						
Chapleau	615.07	187	187	0	0	0
Cochrane	2,527.14	114	103	6	5	0
Hearst	2,919.40	161	145	15	1	0
Kirkland Lake	1,570.03	140	137	1	2	0
North Bay	2,069.54	195	177	13	5	0
Sault Ste. Marie	606.66	107	104	2	1	0
Sudbury	3,815.65	177	150	17	10	0
Timmins	1,541.82	147	141	6	0	0
Wawa	2,098.47	265	261	2	2	0
Sub-Total	17,763.78	1,493	1,405	62	26	0
NORTHWEST						
Dryden	1,505.20	195	189	3	3	0
Fort Frances	2,084.45	273	263	4	6	0
Kenora	2,082.03	191	169	16	6	0
Nipigon	3,037.07	318	304	13	1	0
Red Lake	1,046.52	104	103	1	0	0
Sioux Lookout	1,061.23	70	70	0	0	0
Thunder Bay	1,683.33	185	170	13	2	0
Sub-Total	12,499.83	1,336	1,268	50	18	0
SOUTHCENTRAL						
Algonquin Park	10.72	19	19	0	0	0
Aurora (GTA)	0.00	0	0	0	0	0
Aylmer	0.10	1	0	0	0	1
Bancroft	762.25	93	84	9	0	0
Guelph (Cambridge)	620.50	2	0	0	0	2
Kemptville	130.98	4	2	1	0	1
Midhurst	1.00	1	0	0	0	1
Parry Sound	624.02	105	80	12	3	10
Pembroke	119.96	45	44	1	0	0
Peterborough (Tweed)	121.06	1	0	1	0	0
Sub-Total	2,390.59	271	229	24	3	15
TOTAL	32,654.20	3,100	2,902	136	47	15

APPENDIX A

GLOSSARY OF TERMS

For actual definitions, please refer to the Aggregate Resources Act.

Active Licence

A licence that has been issued, being transferred, or under suspension at the end of the calendar year.

Aggregate

Includes sand, gravel, limestone, dolostone, crushed stone, rock other than metallic ores, and other prescribed material.

Aggregate Permit

A permit for a pit or quarry issued under the Aggregate Resources Act allowing for the excavation of aggregate that is the property of the Crown, on land where the surface rights are the property of the Crown, or from land under water. There are three types of aggregate permits, they are commercial, public authority and personal.

ALPS

The Aggregate Licence and Permit System (ALPS) is an automated data base that facilitates the management of mineral aggregate production and related information, for individual licences, aggregate permits and wayside permits across the province.

Building Dimension

A slab or block of rock, flagstone if foliated and dimension stone if massive, generally rectangular, and cut to specified measurements for ornamental surfacing in buildings or other construction applications.

Clay/Shale

Clay is a fine-grained, natural, earthy material composed primarily of hydrous aluminum silicates. It is plastic when moist and hardens when dried. Shale is fine-grained sedimentary laminated rock predominantly composed of clay grade and other fine minerals.

Class A Licence

A licence under the Aggregate Resources Act to allow excavation of more than 20,000 tonnes of aggregate annually from a pit or quarry within parts of Ontario that have been designated under the Aggregate Resources Act.

Class B Licence

A licence under the Aggregate Resources Act to allow excavation of 20,000 tonnes or less of aggregate annually from a pit or quarry within parts of Ontario that have been designated under the Aggregate Resources Act.

Crown Land

Ownership of land which is vested in the Crown or owned by the Province of Ontario.

Crushed Stone

Rock or stone mechanically crushed to specified sizes and grading.

Designated Area

An area of the Province identified by regulation under the Aggregate Resources Act where a person requires a licence for the excavation of aggregate from private land.

Disturbed Area

An area within a site that has been, or is being excavated to operate a pit or quarry, and has not been rehabilitated.

Gravel

Small stones and pebbles or a mixture of sand and small stones. More specifically, fragments of rock worn by the action of air and water, larger and coarser than sand. MTO specifications define gravel as unconsolidated granular material greater than 4.75mm.

Housing Starts

The number of housing units started where construction has advanced to 100 per cent of footings. In case of multiple dwellings, a "start" implies the commencement of individual structures.

Inactive Licence

A licence that has been revoked or surrendered prior to the end of the calendar year.

Licence

A licence for a pit or quarry issued under the Aggregate Resources Act allowing for the extraction of aggregate in designated areas.

Licensed Area

A specific area for which a licence has been issued for the extraction of mineral aggregates under the Aggregate Resources Act.

Pit

Land or land under water from which unconsolidated aggregate is being or has been excavated, and has not been rehabilitated.

Private Land

Land owned by an individual or corporation, as opposed to land which is owned by the Crown.

Progressive Rehabilitation

As per the requirements of the Aggregate Resources Act, sequential rehabilitation completed within reasonable time over disturbed land from which aggregate has been extracted. The rehabilitation is carried out according to the Act, the regulations, the site plan, and the conditions of the licence or permit during the period that aggregate is being extracted.

Pits & Quarries Control Act

An Act to manage and regulate mineral aggregate extraction in Ontario. The Act had been automatically repealed and replaced by the Aggregate Resources Act as of January 1, 1990.

Quarry

Land or land under water from which consolidated rock is or has been excavated and the site has not been rehabilitated.

Rehabilitation

To treat the land from which aggregate has been excavated to a pre-excitation condition or use, or to a condition compatible with adjacent land.

Royalty

A payment made to the Crown in recognition of the extraction of aggregates owned by the Crown. Under the Aggregate Resources Act, the royalty is set at a minimum of 25 cents per tonne. The Minister may set a higher rate or may allow exemption.

Sand

Any hard granular rock material finer than gravel and coarser than dust. MTO specifications define sand as granular material ranging in size from .075mm to 4.75 mm.

Wayside Permit

A permit issued to a public authority or a person who has a contract with a public authority for a temporary road project or an urgent project for which no alternative source of aggregate is available under licence or permit. A wayside permit expires 18 months from the date of issue or upon completion of the project, whichever comes first.

APPENDIX B

**HISTORICAL DESIGNATION OF PRIVATE LAND UNDER THE
PITS AND QUARRIES CONTROL ACT AND
THE AGGREGATE RESOURCES ACT
(by Geographic Twp)**

Designations under the Pits and Quarries Control Act (1971-1989)

DECEMBER 19, 1971

Adjala	Euphrasia	Nottawasaga
Albemarle	Flamborough East	Osprey
Albion	Flamborough West	Pelham
Amabel	Grantham	Reach
Ancaster	Grimsby North	Saltfleet
Artemesia	Holland	Stamford
Barton	Keppel	St. Edmunds
Beverly	Lindsay	St. Vincent
Caledon	London	Sydenham
Chinguacousy	Louth	Thorold
Clinton	Melancthon	Toronto Gore
Collingwood	Mono	Trafalgar
Derby	Mulmur	Westminster
Eastnor	Nassagaweya	West Nissouri
Erin	Nelson	Whitby
Esquesing	Niagara	Whitchurch

MARCH 3, 1972

Brock	Lobo	Pickering
East Whitby	Markham	Toronto
Gloucester	Nepean	Vaughan
Hallowell	Osgoode	

MAY 9, 1972

Brantford	Pittsburgh	South Dumfries
Guelph	Puslinch	Waterloo
Kingston	North Dumfries	

AUGUST 15, 1973

Anderdon	Dereham	Humberstone
Bertie	Dunn	Huntley
Blenheim	Eramosa	King
Brighton	Fitzroy	Malden
Clarke	Gosfield South	Manvers
Colchester North	Gosfield North	March
Colchester South	Haldimand	Mersea
Cramahe	Hamilton	Murray
Crowland	Harwich	Nichol
Darlington	Hope	North Cayuga

North Gower
North Oxford
Oneida
Orillia
Oro
Pilkington
Raleigh
Romney

Sidney
Sunnidale
Thurlow
Tilbury East
Tyendinaga
Uxbridge
Vespra
Walpole

Wellesley
West Oxford
Willoughby
Wilmot
Woodhouse
Woolwich
Yarmouth

FEBRUARY 15, 1974

Delaware
North Dorchester

MAY 17, 1974

Pelee

MAY 1, 1975

Alnwick
Amaranth
Arran
Arthur
Asphodel
Balfour
Bayham
Belmont
Bexley
Biddulph
Binbrook
Blandford
Blanshard
Blezard
Bowell
Broder
Burford
Caistor
Camden
Capreol
Cartwright
Cavan
Charlotteville
Chatham
Creighton
Cumberland
Denison
Dieppe
Dill
Douro
Dover
Dowling
Drury

Dryden
Dummer
East York
East Garafraxa
East Nissouri
East Luther
East Gwillimbury
East Oxford
East Zorra
Eldon
Emily
Ennismore
Essa
Etobicoke
Fairbank
Falconbridge
Fenelon
Flos
Gainsborough
Garson
Georgina
Glanford
Glenelg
Goulburn
Graham
Hanmer
Harvey
Houghton
Howard
Hutton
Innisfil
Levack
Lorne

Louise
Lumsden
MacLennan
Maidstone
Malahide
Mara
Mariposa
Marlborough
Maryborough
Matchedash
McKim
Medonte
Middleton
Minto
Morgan
Moulton
Neelon
Norman
North Monaghan
North Walsingham
North Norwich
North Gwillimbury
North York
Oakland
Onondaga
Ops
Orford
Otonabee
Peel
Percy
Proton
Rainham
Rama

Rawden
Rayside
Rochester
Sandwich, East
Sandwich, West
Scarborough
Scott
Scugog
Seneca
Seymour
Sherbrooke
Smith
Snider
South Walsingham

South Cayuga
South Dorchester
South Grimsby
South Norwich
South Monaghan
Sullivan
Tay
Tecumseh
Thorah
Tilbury, North
Tilbury, West
Tiny
Torbolton
Tosorontio

Townsend
Trill
Tuscarora
Verulam
Wainfleet
Waters
West Luther
West Garafraxa
West Gwillimbury
West Zorra
Windham
Wisner
York
Zone

APRIL 6, 1976

Great LaCloche Island
Little LaCloche Island

AUGUST 27, 1976

Avenge
Bosanquet
Carden

Korah
Parke
Prince

Rankin
St. Mary's
Tarentorus

JANUARY 1, 1981

Adelaide
Aldborough
All of the County of Perth
All of the County of Huron
All of the County of Lanark
Ameliasburgh
Athol
Bentinck
Brant
Brooke
Bruce
Carrick
City of Belleville
Culross
Dawn
Dunwich
E. Williams
Egremont
Elderslie
Elzevir and Grimsthorpe

Enniskillen
Euphemia
Exfrid
Greenock
Hillier
Hungerford
Huntingdon
Huron
Kincardine
Kinloss
Madoc
Marmora and Lake
McGillivray
Moore
Mosa
Normanby
North Marysburgh
Plympton
Sarnia
Saugeen

Separated Town of Trenton
Sombra
Sophiasburgh
South Marysburgh
Southwold
Town of Deseronto
Tudor
United Counties of Prescott
and Russell
United Counties of Stormont,
Dundas & Glengarry
United Counties of Leeds and
Grenville
Villages of Deloro, Frankford,
Madoc, Marmora, Stirling
and Tweed
W. Williams
Walford
Warwich
Wyoming

JULY 1, 1984

Storrington

Designations under the Aggregate Resources Act (Jan. 1, 1990)

APRIL 1, 1992

Adolphustown	Howe Island	Somerville
Amherst Island	Laxton	South Fredericksburgh
Bedford	Longford	Town of Napanee
Camden East	Loughborough	Villages of Bath and
Dalton	North Fredericksburgh	Newburgh
Digby	Portland	Wolfe Island
Ernestown	Richmond	

SEPTEMBER 1, 1993

Admaston		Towns of Arnprior and
Alice and Fraser	McNab	Renfrew
Bagot and Blithfield	Pembroke	Villages of Beachburg,
Bromley	Petawawa	Braeside, Cobden and
City of Pembroke	Ross	Petawawa
Horton	Stafford	Westmeath

JANUARY 1, 1998

Anderson	Gaudette	Ley
Appleby	Gough	Loughrin
Archibald	Hagar	Macdonald
Aweres	Hallam	May
Awrey	Harrow	McKinnon
Baldwin	Harty	Meredith and Aberdeen
Burwash	Haviland	Additional
Cartier	Hawley	Merritt
Cascaden	Hendrie	Mongowin
Casimir	Henry	Nairn
Chesley Additional	Herrick	Pennefather
Cleland	Hess	Ratter
Cosby	Hilton	Secord
Curtin	Hodgins	Servos
Delamere	Hoskin	Shakespeare
Dennis	Hyman	Shields
Deroche	Jarvis	St. Joseph
Duncan	Jennings	Street
Dunnet	Jocelyn	Tarbutt and Tarbutt
Eden	Johnson	Additional
Fenwick	Kars	Tilley
Fisher	Kehoe	Tilton
Foster	Laird	Tupper
Foy	Laura	VanKoughnet

DECEMBER 4, 1999

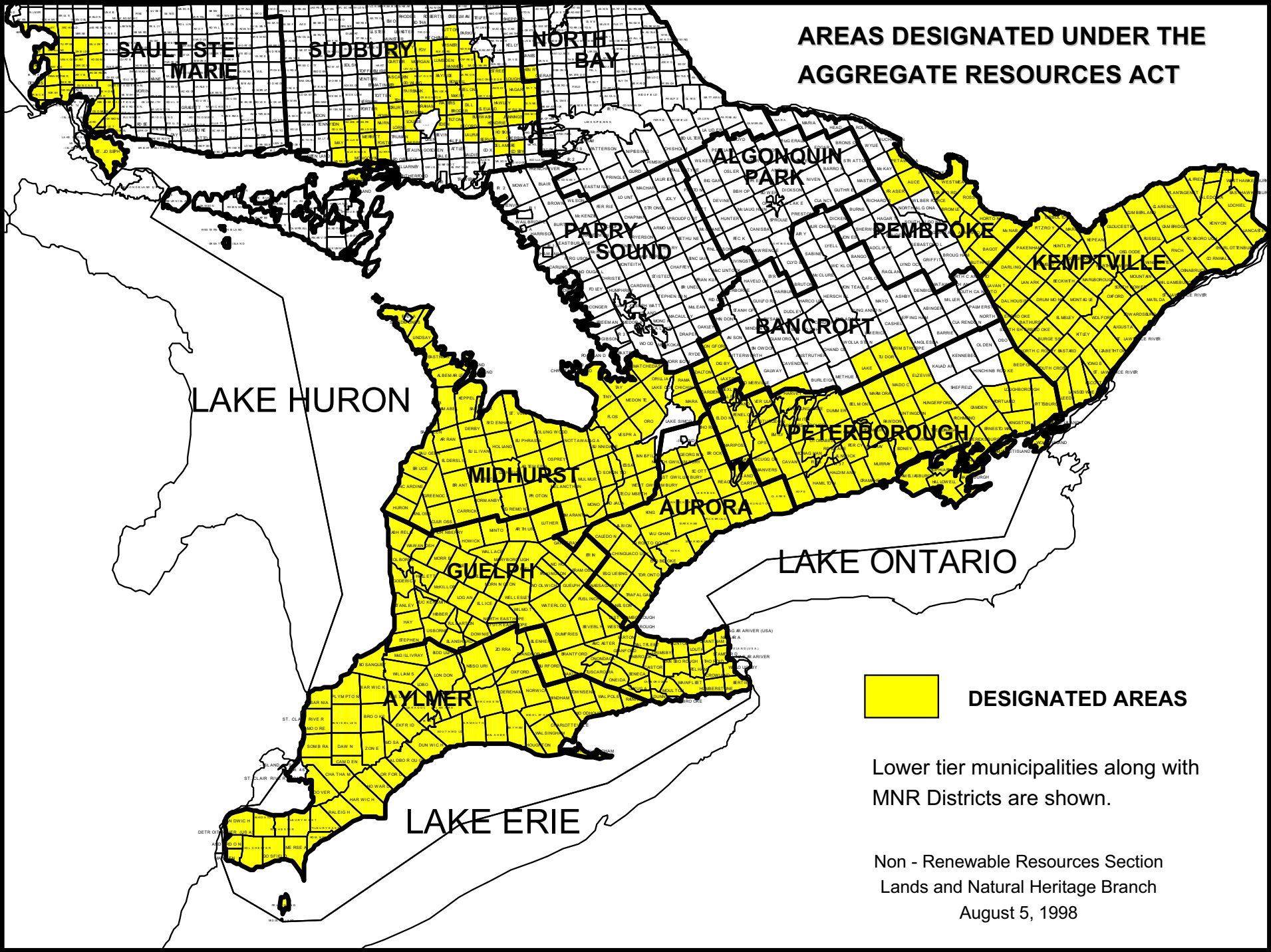
Village of Hilton Beach

CANADIAN PORTLAND CEMENT ASSOCIATION GEOGRAPHIC AREAS



Area 1 Southwest	Area 2 Peninsula	Area 3 West Central	Area 4 GTA	Area 5 East Central	Area 6 East	Area 7 Northeast	Area 8 Northwest
Essex	Niagara	Bruce	Metro Toronto	Kawartha Lakes	Prescott & Russell	Nipissing	Algoma
Chatham-Kent	Brant	Grey	Peel	Peterborough	Leeds & Grenville	Parry Sound	Thunder Bay
Lambton	Haldimand	Simcoe	York	Haliburton	Stormont, Dundas, & Glengarry	Timiskaming	Kenora
Elgin	Norfolk	Dufferin	Durham	Northumberland	Frontenac	Cochrane	Rainy River
Middlesex	Hamilton	Wellington	Halton	Hastings	Greater Ottawa	Sudbury District	
Huron		Waterloo		Prince Edward	Lanark	Greater Sudbury	
Perth				Muskoka	Renfrew	Manitoulin	
Oxford					Lennox & Addington		

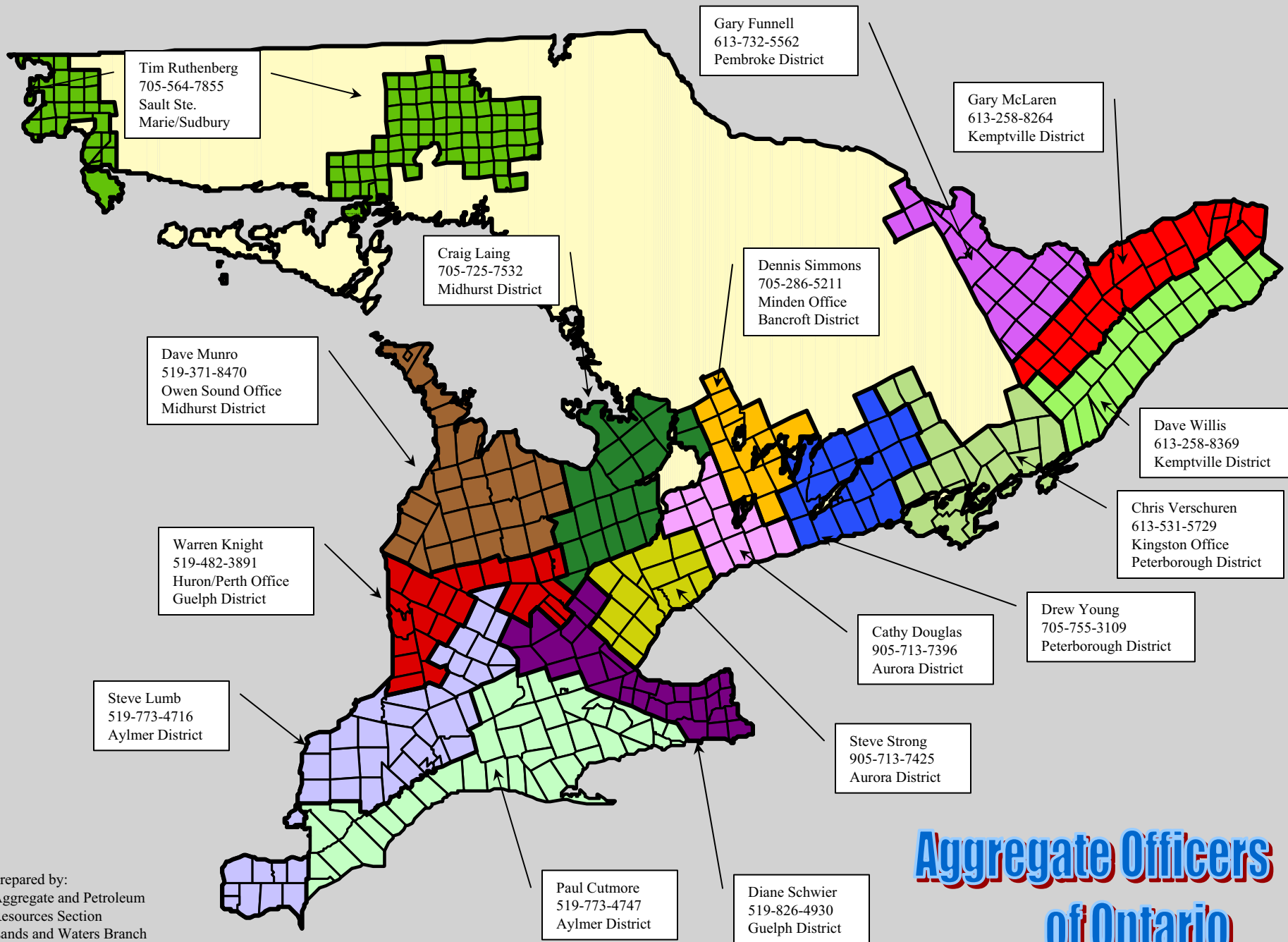
**AREAS DESIGNATED UNDER THE
AGGREGATE RESOURCES ACT**



 **DESIGNATED AREAS**

Lower tier municipalities along with
MNR Districts are shown.

Non - Renewable Resources Section
Lands and Natural Heritage Branch
August 5, 1998



Aggregate Officers of Ontario

Prepared by:
Aggregate and Petroleum
Resources Section
Lands and Waters Branch
June 30, 2002