



- **MINERAL**
- **AGGREGATES**
- **IN ONTARIO**

Statistical Update

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Prepared by:



**THE ONTARIO AGGREGATE
RESOURCES CORPORATION**

MINERAL AGGREGATES IN ONTARIO

PRODUCTION STATISTICS

2007

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 \$37 billion construction industry that employs over 292,000 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. The aggregate industry also makes a significant contribution to the \$1.9 billion cement and concrete manufacturing industry, the \$1.3 billion glass and glass products industry, and a \$2.9 billion pharmaceutical and medicine manufacturing industry in Ontario.

In 2007, this basic non-renewable resource was supplied from 3,764 licensed aggregate sites on private land in designated parts of the Province and 3,361 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 governed by a multi-stakeholder board of directors. The seven-member Board is composed of directors from the Ontario Stone, Sand & Gravel Association of Ontario (OSSGA), representatives from environmental groups, municipalities and non-OSSGA member aggregate producers. TOARC maintains its own 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 focused upon the efficient collection and disbursement of aggregate resource charges, the auditing of production reports, the rehabilitation of abandoned pits and quarries through the MAAP program, the creation of an inventory of sites where licences have been revoked, as well as their rehabilitation, and the general management of the Trust assets.

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

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 Aggregate and Petroleum Resources Section, Lands and Waters 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

Overall production of mineral aggregates in 2007 totaled approximately 173 million tonnes, down 6 million tonnes or 3.4% from the previous year. Production from licenced operations was up 6.0 million tonnes or 3.9% compared to 2006. However, disguised in licenced production tonnage is the fact that the production reporting base was expanded in 2007 by the designation of new areas under the Aggregate Resources Act. The newly designated areas accounted for 12.9 million tonnes of production in 2007 not included under the 'Licensed' category of previous reports. If we compare the formerly licenced area production (2007 vs. 2006) we discover that production for licences is down 6.9 million tonnes or 4.5%.

The total production for the Province contains an estimate of 2.0 million tonnes for production on private land in non designated areas (compared to 12 million tonnes in past years). Wayside permit production increased by 233% on relatively small volumes from 2006 (.3 million in 2006 compared to 1 million in 2007). Production from aggregate permits on Crown Land decreased 28.6% from 2006 (7.5 million in 2007 from 10.5 million tonnes in 2006).

Table 1

AGGREGATE PRODUCTION IN ONTARIO - 1995 - 2007
(rounded to nearest million tonnes)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Licences	109	114	124	124	131	145	145	141	143	150	149	152	158
Wayside Permits*	2	2	1	2	1	1	0	0	0	0	1	0	1
Aggregate Permits	9	9	8	9	11	10	7	7	7	7	8	11	8
Category 14 (Forest Industry)	-	-	-	-	2	3	3	4	3	4	4	4	4
Private Land Non-Designated (estimated)	10	11	11	11	12	12	12	12	12	12	12	12	2
ONTARIO TOTAL	130	136	144	146	157	171	167	164	165	173	174	179	173

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

*Actual production for Wayside Permits was .2 million tonnes for 2001, .3 million tonnes for 2002, .3 million tonnes for 2003, .1 million tonnes for 2004 and .3 million tonnes for 2006

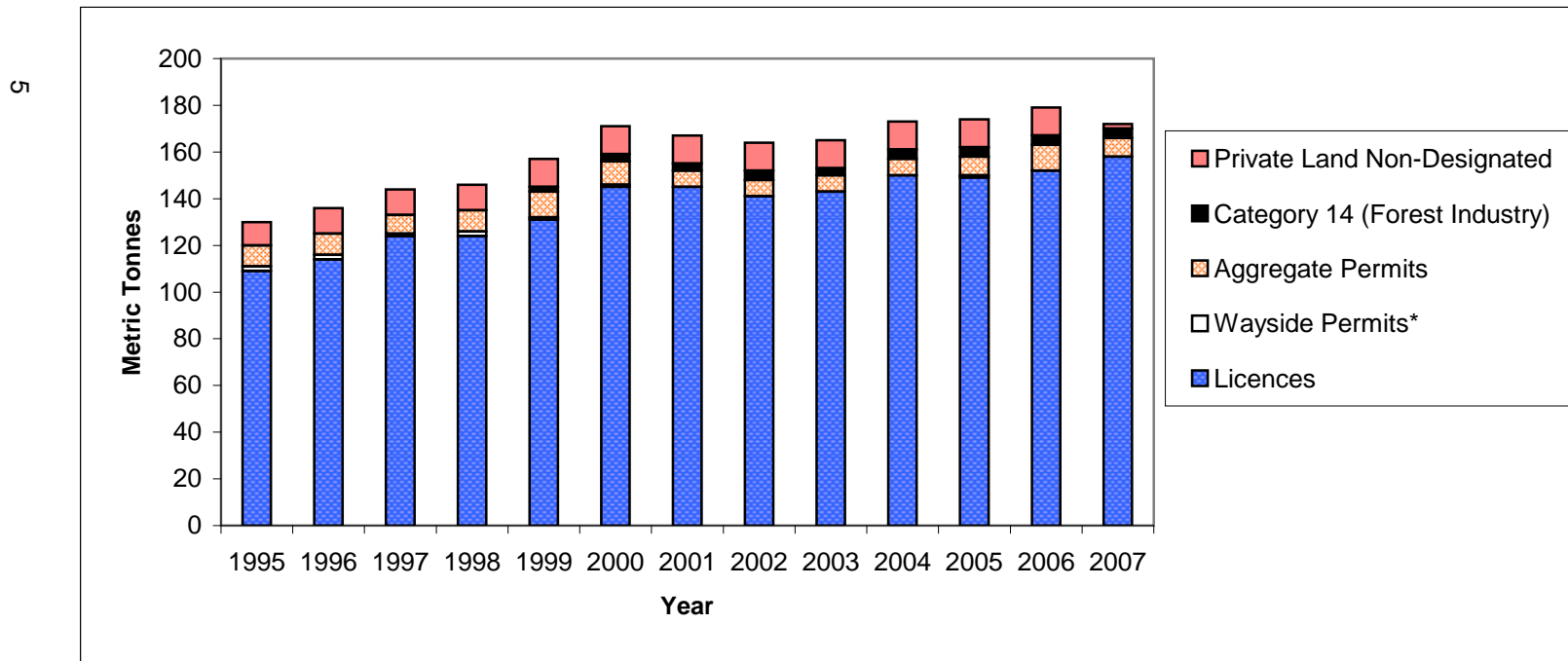


Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<i>Algoma District</i>			
Algoma District, Unorganized	58,490.76		58,490.76
Blind River, Town of/Spanish, Town of/The North Shore, Tp	64,847.07		64,847.07
Bruce Mines, Town of/Huron Shores, Municipality of/ Plummer Additional Tp	1,952,704.66		1,952,704.66
Hilton Tp	12,925.20		12,925.20
Jocelyn Tp	14,785.60		14,785.60
Johnson Tp/Tarbutt & Tarbutt Add'l Tp	20,717.50		20,717.50
Laird Tp/St. Joseph Tp	12,033.80		12,033.80
Macdonald, Meredith & Aberdeen Add'l Tp	19,160.00		19,160.00
Sault Ste. Marie, City of/Prince Tp	644,908.77		644,908.77
Sub-Total	2,800,573.36	0.00	2,800,573.36
<i>Brant</i>			
Brant, County of/Brantford, City of	2,262,164.64		2,262,164.64
Sub-Total	2,262,164.64	0.00	2,262,164.64
<i>Bruce</i>			
Arran-Elderslie, Municipality of	239,278.98		239,278.98
Brockton, Municipality of	254,699.72		254,699.72
Huron-Kinloss Tp	438,289.22		438,289.22
Kincardine, Municipality of	123,435.57		123,435.57
Northern Bruce Peninsula, Municipality of	262,532.14		262,532.14
Saugeen Shores, Town of	324,189.31		324,189.31
South Bruce, Municipality of	467,035.30		467,035.30
South Bruce Peninsula, Town of	284,386.52		284,386.52
Sub-Total	2,393,846.76	0.00	2,393,846.76
<i>Chatham-Kent</i>			
Chatham-Kent, Municipality of	292,402.94		292,402.94
Sub-Total	292,402.94	0.00	292,402.94
<i>Dufferin</i>			
Amaranth Tp/East Luther Grand Valley Tp	134,760.75		134,760.75
East Garafraxa Tp	982,589.77		982,589.77
Melancthon Tp	1,217,214.70		1,217,214.70
Mono Tp	354,573.98		354,573.98
Mulmur Tp	284,542.96		284,542.96
Sub-Total	2,973,682.16	0.00	2,973,682.16
<i>Durham</i>			
Brock Tp	1,673,467.86		1,673,467.86
Clarington, Municipality of	5,204,754.97		5,204,754.97
Oshawa, City of/Scugog Tp/Whitby, Town of	224,517.76		224,517.76
Uxbridge Tp	4,588,316.94		4,588,316.94
Sub-Total	11,691,057.53	0.00	11,691,057.53
<i>Elgin</i>			
Bayham/West Elgin, Municipality of/Malahide Tp	277,061.02		277,061.02
Central Elgin, Municipality of	340,907.01		340,907.01
Sub-Total	617,968.03	0.00	617,968.03

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
Essex			
Amherstburg, Town of/Leamington, Municipality of/Pelee Tp	1,172,041.73		1,172,041.73
Kingsville, Town of	235,559.33	250,000.00	485,559.33
Sub-Total	1,407,601.06	250,000.00	1,657,601.06
Frontenac			
Central Frontenac Tp	185,314.20		185,314.20
Frontenac Islands Tp	23,395.30		23,395.30
Kingston, City of	1,354,753.42		1,354,753.42
North Frontenac Tp	151,365.62		151,365.62
South Frontenac Tp	373,539.26		373,539.26
Sub-Total	2,088,367.80	0.00	2,088,367.80
Greater Sudbury			
Greater Sudbury, City of	2,669,580.86	530,485.00	3,200,065.86
Sub-Total	2,669,580.86	530,485.00	3,200,065.86
Grey			
Chatsworth Tp	444,405.52		444,405.52
Georgian Bluffs, Tp	809,363.34		809,363.34
Grey Highlands, Municipality of	475,562.93		475,562.93
Meaford, Municipality of	486,959.33		486,959.33
Southgate Tp	262,658.93		262,658.93
The Blue Mountains, Town of	369,138.84		369,138.84
West Grey, Municipality of	354,277.99		354,277.99
Sub-Total	3,202,366.88	0.00	3,202,366.88
Haldimand			
Haldimand, County of	1,419,711.11		1,419,711.11
Sub-Total	1,419,711.11	0.00	1,419,711.11
Haliburton			
Algonquin Highlands, Tp	37,470.61		37,470.61
Dysart et al, Tp	289,899.04		289,899.04
Highlands East, Tp	36,353.28		36,353.28
Minden Hills, TP	130,264.41		130,264.41
Sub-Total	493,987.34	0.00	493,987.34
Halton			
Burlington, City of	2,284,733.10		2,284,733.10
Halton Hills, Town of	2,612,378.20		2,612,378.20
Milton, Town of	4,587,488.57		4,587,488.57
Sub-Total	9,484,599.87	0.00	9,484,599.87
Hamilton			
Hamilton, City of	5,585,705.27		5,585,705.27
Sub-Total	5,585,705.27	0.00	5,585,705.27

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
Hastings			
Bancroft, Town of	33,328.95		33,328.95
Belleville, City of	736,989.33		736,989.33
Carlo/Mayo Tp	17,602.20		17,602.20
Centre Hastings, Municipality of	143,865.72		143,865.72
Faraday Tp	16,622.44		16,622.44
Hasting Highlands	93,261.60		93,261.60
Limerick Tp	20,516.96		20,516.96
Madoc Tp	689,470.96		689,470.96
Marmora & Lake, Municipality of	14,731.20		14,731.20
Quinte West, City of	418,085.29		418,085.29
Stirling-Rawdon, Tp	11,079.82		11,079.82
Tweed, Municipality of	95,901.85		95,901.85
Tyendinaga Tp	241,543.10		241,543.10
Wollaston	39,350.16		39,350.16
Sub-Total	2,572,349.58	0.00	2,572,349.58
Huron			
Ashfield-Colborne-Wawanosh Tp	909,351.08		909,351.08
Bluewater, Municipality of	44,483.23		44,483.23
Central Huron, Municipality of	636,800.76		636,800.76
Howick Tp	211,306.13		211,306.13
Huron East, Municipality of	764,439.57		764,439.57
Morris-Turnberry, Municipality of	191,212.19		191,212.19
North Huron Tp	47,533.89		47,533.89
South Huron, Municipality of	62,717.64		62,717.64
Sub-Total	2,867,844.49	0.00	2,867,844.49
Kawartha Lakes			
Kawartha Lakes, City of	5,913,324.01		5,913,324.01
Sub-Total	5,913,324.01	0.00	5,913,324.01
Lambton			
Enniskillen/Warwick Tp	275,181.22		275,181.22
Lambton Shores, Municipality of	158,373.04		158,373.04
Plympton-Wyoming, Town of	46,431.68		46,431.68
Sub-Total	479,985.94	0.00	479,985.94
Lanark			
Beckwith Tp	320,884.66		320,884.66
Drummond-North Elmsley Tp	183,850.01		183,850.01
Lanark Highlands Tp	1,400,028.99		1,400,028.99
Mississippi Mills, Town of	168,083.84		168,083.84
Montague Tp	220,167.42		220,167.42
Tay Valley Tp	13,426.00		13,426.00
Sub-Total	2,306,440.92	0.00	2,306,440.92

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<i>Leeds & Grenville</i>			
Athens Tp/Front of Yonge Tp	202,293.37		202,293.37
Augusta Tp	180,412.00		180,412.00
Edwardsburgh-Cardinal Tp	70,266.45		70,266.45
Elizabethtown-Kitley Tp	465,130.99		465,130.99
Leeds and the Thousand Islands Tp	474,756.25		474,756.25
Merrickville-Wolford, Village of	30,741.52		30,741.52
North Grenville Tp	462,857.04		462,857.04
Rideau Lakes Tp	133,239.82		133,239.82
Sub-Total	2,019,697.44	0.00	2,019,697.44
<i>Lennox & Addington</i>			
Addington Highlands Tp	24,571.52		24,571.52
Greater Napanee, Town of	167,981.07		167,981.07
Loyalist Tp	1,689,774.76		1,689,774.76
Stone Mills Tp	133,759.92		133,759.92
Sub-Total	2,016,087.27	0.00	2,016,087.27
<i>Manitoulin District</i>			
Assignack, Tp	3,673.32		3,673.32
Barrie Island, TP/Burpee & Mills, Tp/Cockburn Island, Tp	5,876.54		5,876.54
Billings, Tp/Unorganized - Manitoulin D	3,510,531.68		3,510,531.68
Central Manitoulin Tp	13,350.82		13,350.82
Gordon, Tp	19,785.58		19,785.58
Northeastern Manitoulin & The Islands	66,027.57		66,027.57
Tehkummah, Tp	14,890.99		14,890.99
Sub-Total	3,634,136.50	0.00	3,634,136.50
<i>Middlesex</i>			
Adelaide Metcalfe Tp	28,596.00		19,878.00
London, City of	1,360,435.44		1,967,731.76
Lucan Biddulph Tp	20,832.08		20,832.08
Middlesex Centre Tp	728,669.01		728,669.01
North Middlesex, Municipality of	161,372.90		161,372.90
Strathroy-Caradoc Tp	31,307.00		31,307.00
Thames Centre, Municipality of	2,831,900.22		2,831,900.22
Sub-Total	5,163,112.65	0.00	5,163,112.65
<i>Muskoka</i>			
Bracebridge	718,690.01		718,690.01
Georgian Bay	8,833.50		8,833.50
Gravenhurst	107,873.86		107,873.86
Huntsville	791,780.94		791,780.94
Lake of Bays, Tp	152,639.59		152,639.59
Muskoka Lakes, Tp	319,932.05		319,932.05
Sub-Total	2,099,749.95	0.00	2,099,749.95
<i>Niagara</i>			
Fort Erie, Town of/Pelham, Town of/Port Colborne, City of/ Wainfleet Tp	1,429,111.65		1,429,111.65
Lincoln, Town of/Niagara-on-the-Lake, Town of	1,405,433.49		1,405,433.49
Niagara Falls, City of	1,193,242.06		1,193,242.06
Sub-Total	4,027,787.20	0.00	4,027,787.20

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<i>Nipissing District</i>			
Bonfield Tp	124,327.86		124,327.86
Calvin Tp	37,065.24		37,065.24
Chisholm Tp	70,172.90		70,172.90
Mattawan Tp/South Algonquin Tp	28,298.84		28,298.84
North Bay, City of	608,014.22		608,014.22
Papineau-Cameron Tp	56,457.46		56,457.46
Unorganized - Nipissing D	7,295.40		7,295.40
West Nipissing, Municipality of	404,616.35		404,616.35
Sub-Total	1,336,248.27	0.00	1,336,248.27
<i>Norfolk</i>			
Norfolk, County of	548,736.34		548,736.34
Sub-Total	548,736.34	0.00	548,736.34
<i>Northumberland</i>			
Alnwick-Haldimand Tp	273,956.69		273,956.69
Brighton, Municipality of	400,179.38		400,179.38
Cramahe Tp	2,145,561.41		2,145,561.41
Hamilton Tp	354,135.92		354,135.92
Port Hope, Municipality of	45,900.50		45,900.50
Trent Hills, Municipality of	214,195.85		214,195.85
Sub-Total	3,433,929.75	0.00	3,433,929.75
<i>Ottawa</i>			
Ottawa, City of	11,048,203.05	370,000.00	11,418,203.05
Sub-Total	11,048,203.05	370,000.00	11,418,203.05
<i>Oxford</i>			
Blandford-Blenheim Tp	367,410.89		367,410.89
East Zorra-Tavistock Tp/Norwich Tp/Woodstock, City of	733,457.09		733,457.09
South-West Oxford Tp	1,914,874.71		1,914,874.71
Zorra Tp	4,091,344.25		4,091,344.25
Sub-Total	7,107,086.94	0.00	7,107,086.94
<i>Parry Sound District</i>			
ArmourTp	254,467.30		254,467.30
Callander, Municipality of	19,018.64		19,018.64
Carling Tp/The Archipelago Tp	19,526.27		19,526.27
Joly Tp	13,140.94		13,140.94
Kearney, Town of	4,849.88		4,849.88
Machar Tp	241,048.22		241,048.22
Magnetawan, Municipality of	78,317.52		78,317.52
McDougall Tp	41,986.16		41,986.16
McKeller Tp	7,922.88		7,922.88
McMurrich-Monteith Tp	14,359.53		14,359.53
Nipissing Tp	21,071.89		21,071.89
Perry Tp	38,768.50		38,768.50
Powassan, Municipality of	61,475.02		61,475.02
Ryerson Tp	12,846.56		12,846.56
Seguin Tp	503,871.73		503,871.73
Strong Tp	33,183.30		33,183.30
Unorganized - Parry Sound	114,138.74		114,138.74
Whitestone The Municipality of	35,271.20		35,271.20
Sub-Total	1,515,264.28	0.00	1,515,264.28

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
Peel			
Caledon, Town of	4,745,923.35		4,745,923.35
Sub-Total	4,745,923.35	0.00	4,745,923.35
Perth			
North Perth, Town of/St. Marys, Separated Town of	112,511.07		112,511.07
Perth East Tp	425,720.04		425,720.04
Perth South Tp	1,469,827.50		1,469,827.50
West Perth Tp	104,169.75		104,169.75
Sub-Total	2,112,228.36	0.00	2,112,228.36
Peterborough			
Asphodel-Norwood Tp	257,230.68		257,230.68
Cavan-Millbrook-North Monaghan Tp	64,599.03		64,599.03
Douro-Dummer Tp	660,491.83		660,491.83
Galway-Cavendish-Harvey Tp	476,894.22		476,894.22
North Kawartha Tp	13,285.00		13,285.00
Havelock-Belmont-Methuen Tp	397,926.35		397,926.35
Otonabee-South Monaghan Tp	279,316.32		279,316.32
Smith-Ennismore-Lakefield Tp	758,274.25		758,274.25
Sub-Total	2,908,017.68	0.00	2,908,017.68
Prescott & Russell			
Alfred & Plantagenet Tp	312,610.80		312,610.80
Champlain Tp	590,298.00		590,298.00
Clarence-Rockland, City of	201,149.52		201,149.52
East Hawkesbury Tp	26,896.88		26,896.88
Russell Tp	66,877.85		66,877.85
The Nation, Municipality of	196,389.28		196,389.28
Sub-Total	1,394,222.33	0.00	1,394,222.33
Prince Edward Co			
Prince Edward, County of	2,364,490.95		2,364,490.95
Sub-Total	2,364,490.95	0.00	2,364,490.95
Renfrew			
Admaston-Bromley Tp	128,315.64		128,315.64
Bonnechere Valley Tp	74,938.11		74,938.11
Brudenell, Lyndoc and Raglan Tp	47,255.91		47,255.91
Deep River Tp/Head, Clara & Maria Tp	58,290.00		58,290.00
Greater Madawaska Tp	69,117.20		69,117.20
Horton Tp	380,237.28		380,237.28
Killaloe, Hagarty and Richards Tp	26,096.74		26,096.74
Laurentian Hills	57,079.38		57,079.38
Laurentian Valley Tp	425,842.50		425,842.50
Madawaska Valley	165,241.35		165,241.35
McNab-Braeside Tp	347,217.89		347,217.89
North Algona-Wilberforce Tp	28,602.60		28,602.60
Petawawa, Town of	283,063.41		283,063.41
Whitewater Region Tp	171,009.23		171,009.23
Sub-Total	2,262,307.24	0.00	2,262,307.24

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<i>Simcoe</i>			
Adjala-Tosorontio Tp	293,182.87		293,182.87
Bradford West Gwillimbury, Town of/Collingwood, Town of	188,302.00		188,302.00
Clearview Tp	1,629,942.06		1,629,942.06
Essa Tp	58,672.30		58,672.30
Innisfil, Town of	34,587.78		34,587.78
Midland, Town of/Penetanguishine, Town of	248,602.83		248,602.83
New Tecumseth, Town of	25,679.23		25,679.23
Oro-Medonte Tp	2,851,996.95		2,851,996.95
Ramara Tp	2,613,492.28		2,613,492.28
Severn Tp	2,549,570.33		2,549,570.33
Springwater Tp	1,087,746.79		1,087,746.79
Tay Tp	109,119.41		109,119.41
Tiny Tp	309,302.81		309,302.81
Sub-Total	12,000,197.64	0.00	12,000,197.64
<i>Stormont, Dundas & Glengarry</i>			
North Dundas Tp	606,510.02		606,510.02
North Glengarry Tp	74,977.62		74,977.62
North Stormont Tp	818,236.46		818,236.46
South Dundas Tp	345,291.62		345,291.62
South Glengarry Tp	269,746.89		269,746.89
South Stormont Tp	719,977.06		719,977.06
Sub-Total	2,834,739.67	0.00	2,834,739.67
<i>Sudbury District</i>			
Baldwin Tp/ St. Charles, Municipality of	122,936.99		122,936.99
French River, Municipality of/Killarny, Municipality of	446,940.21		446,940.21
Markstay-Warren, Municipality of	71,579.78		71,579.78
Sables Spanish Rivers Tp/Espanola, Town of	50,934.61		50,934.61
Sudbury District, Unorganized	508,733.78		508,733.78
Sub-Total	1,201,125.37	0.00	1,201,125.37
<i>Thunder Bay District</i>			
Conmee, Tp/Gillies, Tp/Neebing, Municipality of	93,218.08		93,218.08
Oliver Paipoonge, Municipality of/Shuniah, Tp/	243,831.80		
Thunder Bay, City of	6,129.75		6,129.75
Sub-Total	343,179.63	0.00	343,179.63
<i>Waterloo</i>			
Cambridge, City of/Kitchener, City of	805,990.86		805,990.86
North Dumfries Tp	4,233,060.42		4,233,060.42
Wellesley Tp	1,238,978.84		1,238,978.84
Wilmot Tp	1,151,755.38		1,151,755.38
Woolwich Tp	804,955.48		804,955.48
Sub-Total	8,234,740.98	0.00	8,234,740.98

Table 2

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

Municipality	(Reported in Metric Tonnes)	Licences	Wayside Permits	Total
Wellington				
Centre Wellington Tp		981,825.62		981,825.62
Erin, Town of		2,165,486.67		2,165,486.67
Guelph-Eramosa Tp		796,916.63		796,916.63
Mapleton Tp		90,825.80		90,825.80
Minto, Town of		395,827.72	45,000.00	440,827.72
Puslinch Tp		4,168,488.25		4,168,488.25
Wellington North Tp		361,154.26		361,154.26
Sub-Total		8,960,524.95	45,000.00	9,005,524.95
York				
East Gwillimbury, Town of		48,407.80		48,407.80
Georgina, Town of		61,326.93		61,326.93
Whitchurch-Stouffville, Town of		618,395.89		618,395.89
Sub-Total		728,130.62	0.00	728,130.62
GRAND TOTAL		157,563,428.96	1,195,485.00	158,758,913.96

Table 3

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

Municipality	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Algoma, District of	0.6	0.8	0.8	0.6	0.8	0.6	0.8	1.9	1.2	2.8
Brant Co.	1.5	1.5	2.1	2.0	1.8	2.1	2.0	1.8	2.3	2.3
Bruce Co.	1.6	1.5	1.7	1.6	1.7	1.7	1.9	1.8	2.3	2.4
Chatham-Kent, R. M. of	0.4	0.5	0.5	0.3	0.5	0.4	0.3	0.4	0.3	0.3
Dufferin Co.	1.8	2.1	2.6	2.4	2.3	3.0	2.7	2.9	3.1	3.0
Durham, R. M. of	7.8	9.2	10.2	11.4	11.0	11.8	12.6	13.2	12.2	11.7
Elgin Co.	0.4	0.6	0.7	0.6	0.5	0.6	0.7	0.8	0.7	0.6
Essex Co.	2.0	1.9	2.0	2.2	1.9	1.9	1.9	1.7	1.6	1.7
Frontenac Co.	1.2	1.3	1.4	1.3	1.6	2.0	2.2	2.4	2.1	2.1
Greater Sudbury, City of	2.3	2.9	2.3	1.8	2.3	1.7	2.2	2.8	2.9	2.7
Grey Co.	2.1	2.8	2.5	2.6	2.6	3.1	3.2	3.7	3.4	3.2
Haldimand Co.	----	----	----	1.5	1.9	1.8	1.6	2.0	1.8	1.4
Haldimand-Norfolk, R. M. of	1.8	2.0	2.0	----	----	----	----	----	----	----
Haliburton Co.	----	----	----	----	----	----	----	----	----	0.5
Halton, R. M. of	13.4	13.8	15.5	15.8	12.1	10.7	11.4	10.9	9.6	9.5
Hamilton, City of	4.7	4.6	6.3	6.0	5.5	6.0	6.3	5.6	6.2	5.6
Hastings Co.	1.9	2.2	2.0	2.0	2.1	2.4	2.3	2.1	2.3	2.6
Huron Co.	2.6	2.8	2.7	3.0	2.7	2.8	2.5	2.6	2.7	2.9
Kawartha Lakes, City of	----	----	----	6.4	6.4	6.7	6.8	6.8	6.5	5.9
Lambton Co.	0.6	0.6	0.5	0.5	0.7	0.4	0.5	0.7	0.7	0.5
Lanark Co.	1.3	1.5	1.6	1.7	2.0	2.4	2.3	2.3	2.3	2.3
Leeds & Grenville Co.'s	4.2	2.2	3.0	2.3	2.0	1.9	2.2	2.3	2.3	2.0
Lennox & Addington Co.	1.9	1.7	1.8	1.8	1.7	1.9	1.8	1.9	1.9	2.0
Manitoulin, District of	----	----	----	----	----	----	----	----	----	3.6
Middlesex Co.	6.1	5.6	6.4	6.0	5.4	5.6	6.2	6.2	5.6	5.2
Muskoka	----	----	----	----	----	----	----	----	----	2.1
Niagara, R. M. of	4.6	4.3	4.6	4.6	4.9	4.6	4.7	4.5	5.1	4.0
Nipissing, District of	----	----	----	----	----	----	----	----	----	1.3
Norfolk Co.	----	----	----	0.4	0.4	0.4	0.5	0.4	0.5	0.5
Northumberland Co.	3.2	3.6	3.2	3.1	3.0	3.4	3.3	3.5	3.4	3.4
Ottawa, City of	7.1	8.1	10.7	10.1	10.7	10.0	9.9	10.6	11.1	11.4
Oxford Co.	4.9	5.1	5.4	4.9	4.8	4.9	4.8	5.0	5.4	7.1
Parry Sound, District of	----	----	----	----	----	----	----	----	----	1.5
Peel, R. M. of	4.2	4.5	5.2	5.2	4.3	4.5	5.3	5.1	5.3	4.7
Perth Co.	1.7	1.6	2.1	2.0	2.1	2.0	2.0	2.0	2.4	2.1
Peterborough Co.	1.8	1.8	2.2	2.4	3.2	2.5	2.5	2.7	2.6	2.9
Prescott & Russell Co.'s	1.1	1.2	1.4	1.4	1.3	1.4	1.4	1.7	1.5	1.4
Prince Edward Co.	2.0	2.0	2.1	2.0	2.1	2.2	2.2	2.4	2.2	2.4
Renfrew Co.	1.3	1.5	1.5	1.2	1.8	1.6	1.7	1.3	1.9	2.3
Simcoe Co.	9.0	9.0	9.3	10.6	11.4	11.8	12.7	12.6	13.4	12.0
Stormont, Dundas & Glengarry Co.'s	2.4	2.8	3.0	2.7	2.6	2.7	3.5	3.0	3.4	2.8
Sudbury, District of	0.2	0.4	0.5	1.0	0.6	0.6	0.6	0.8	0.8	1.7
Thunder Bay, District of	----	----	----	----	----	----	----	----	----	0.3
Victoria Co.	6.6	6.0	7.1	----	----	----	----	----	----	----
Waterloo, R. M. of	5.8	7.3	7.7	8.2	7.8	8.0	9.5	8.2	9.3	8.2
Wellington Co.	6.9	7.5	8.4	8.9	8.9	9.1	9.1	8.3	8.8	9.0
York, R. M. of	2.2	2.7	3.0	2.4	2.4	2.0	1.9	1.0	1.0	0.7
TOTAL	125.2	131.5	146.0	144.9	141.8	143.2	149.8	149.7	151.9	158.8

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.

Totals may not equal due to rounding.

Table 4

**LICENCE PRODUCTION IN 2007
THE TOP TEN PRODUCING MUNICIPALITIES
(Rounded to nearest million tonnes)**

Municipality	County/Region	2007 Production	Production				
			2006	2005	2004	2003	2002
1 City of Ottawa	City of Ottawa	11.0	11.1	10.6	9.9	10.0	10.7
2 City of Kawartha Lakes	City of Kawartha Lakes	5.9	6.5	6.8	6.8	6.7	6.4
3 City of Hamilton	City of Hamilton	5.6	6.2	5.6	6.3	5.9	5.4
4 Municipality of Clarington	Durham	5.2	5.0	5.8	5.3	5.6	4.7
5 Town of Caledon	Peel	4.7	5.3	5.1	5.3	4.5	4.3
6 Township of Uxbridge	Durham	4.6	5.4	5.3	5.5	4.9	4.7
7 Town of Milton	Halton	4.4	4.6	5	5.6	5.2	5.9
8 Township of North Dumfries	Waterloo	4.2	5.0	4.1	4.4	3.9	3.3
9 Puslinch Township	Wellington County	4.2	4.7	5.0	5.2	5.1	5.3
10 Township of Zorra	Oxford	4.1	3.9	3.9	3.6	3.5	3.4
Total		53.9	57.7	57.2	57.9	55.3	54.1

Notes:

1. Municipalities are ranked in order of their licenced production for 2007
2. Pre 2007 historical data for Table 4 has been corrected effective February 24, 2011.
This PDF version of Table 4 should be relied upon over previously printed versions.

Table 5

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

District	No. of Licences	Category		Type of Operation			
		Class A	Class B	Pit	Quarry	Pit & Quarry	Underwater
Aurora (GTA)	160	138	22	142	18	0	0
Aylmer	307	239	68	290	11	6	0
Bancroft	266	98	168	193	30	43	0
Guelph (Cambridge)	449	373	76	411	35	3	0
Kemptville	490	278	212	346	121	23	0
Midhurst	463	348	115	410	48	5	0
North Bay	154	60	94	125	5	24	0
Parry Sound	307	119	188	198	11	98	0
Pembroke	239	73	166	221	12	6	0
Peterborough (Tweed)	534	289	245	432	84	18	0
Sault Ste. Marie	95	52	43	78	5	12	0
Sudbury	242	125	117	175	18	49	0
Thunder Bay	58	23	35	49	2	7	0
TOTAL	3,764	2,215	1,549	3,070	400	294	0

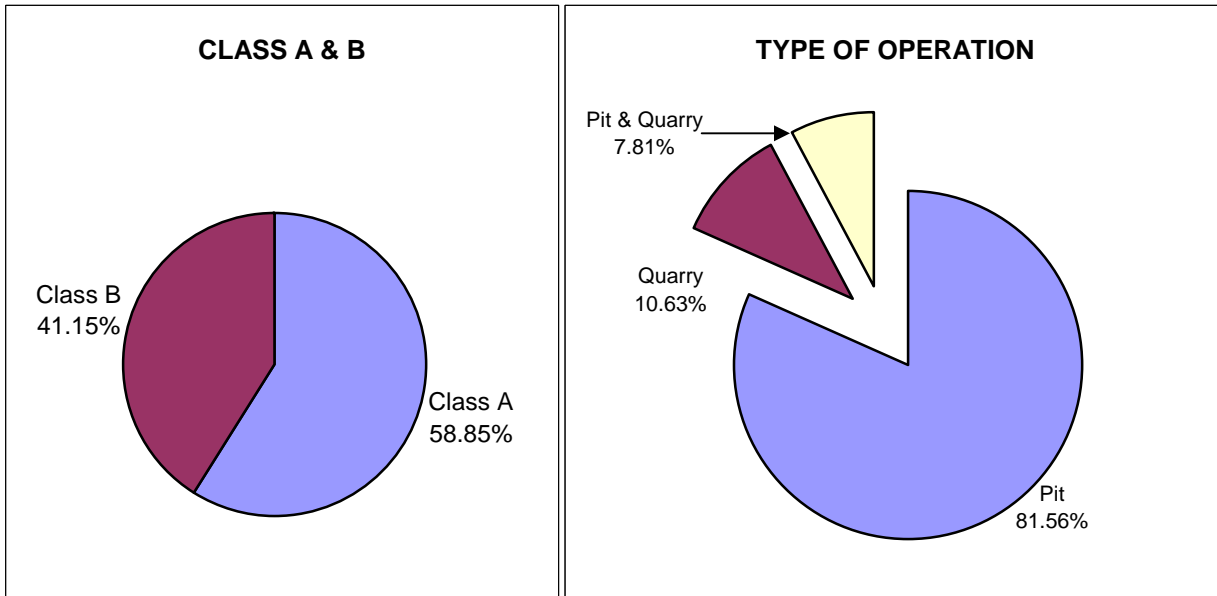
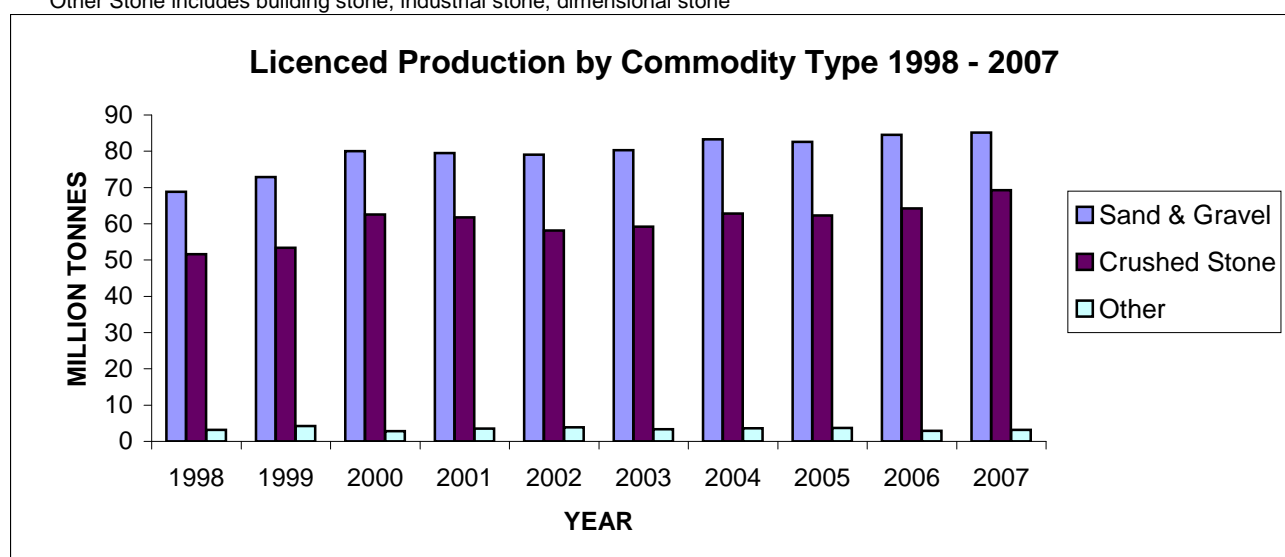


Table 6

**2007 LICENCED AGGREGATE PRODUCTION
BY COMMODITY TYPE
(Reported by MNR District)**

District	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Aurora (GTA)	26,640,180.49	14,132,551.52	11,316,157.71	1,067,798.06	123,673.20
Aylmer	15,616,893.90	11,567,655.94	4,041,074.26	8,115.74	47.96
Bancroft	4,021,821.43	861,746.45	3,066,080.50	431.20	93,563.28
Guelph (Cambridge)	35,523,400.00	23,584,750.98	11,822,820.49	112,828.53	3,000.00
Kemptville	19,378,420.41	4,333,107.75	13,658,590.78	189,376.01	1,197,345.87
Midhurst	20,517,400.44	12,906,225.86	7,337,808.49	83,183.31	190,182.78
North Bay	1,467,008.58	1,031,141.22	435,830.36	0.00	37.00
Parry Sound	3,494,518.95	1,941,332.51	1,522,693.27	3,450.36	27,042.81
Pembroke	2,487,190.24	2,095,581.76	390,319.48	0.00	1,289.00
Peterborough	17,774,038.80	7,878,669.13	9,867,901.24	9,292.63	18,175.80
Sault Ste. Marie	2,778,358.10	1,521,791.28	1,255,753.11	0.00	813.71
Sudbury	7,521,017.99	2,980,112.61	4,512,764.31	22,503.75	5,637.32
Thunder Bay	343,179.63	334,477.96	8,629.86	0.00	71.81
TOTAL	157,563,428.96	85,169,144.97	69,236,423.86	1,496,979.59	1,660,880.54

Note: Totals may not equal due to rounding - Reported in metric tonnes
Other Stone includes building stone, industrial stone, dimensional stone



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

	Total	Sand & Gravel	Crushed Stone	Other
1998	123.68	68.84	51.64	3.20
1999	130.53	72.87	53.40	4.26
2000	145.49	80.07	62.57	2.85
2001	144.76	79.46	61.76	3.54
2002	141.17	79.09	58.19	3.89
2003	142.91	80.30	59.25	3.36
2004	149.76	83.28	62.83	3.65
2005	148.59	82.62	62.27	3.70
2006	151.61	84.49	64.24	2.88
2007	157.56	85.17	69.24	3.15

Table 7

**2007 AGGREGATE PERMIT PRODUCTION
BY COMMODITY TYPE
(Reported by MNR District)**

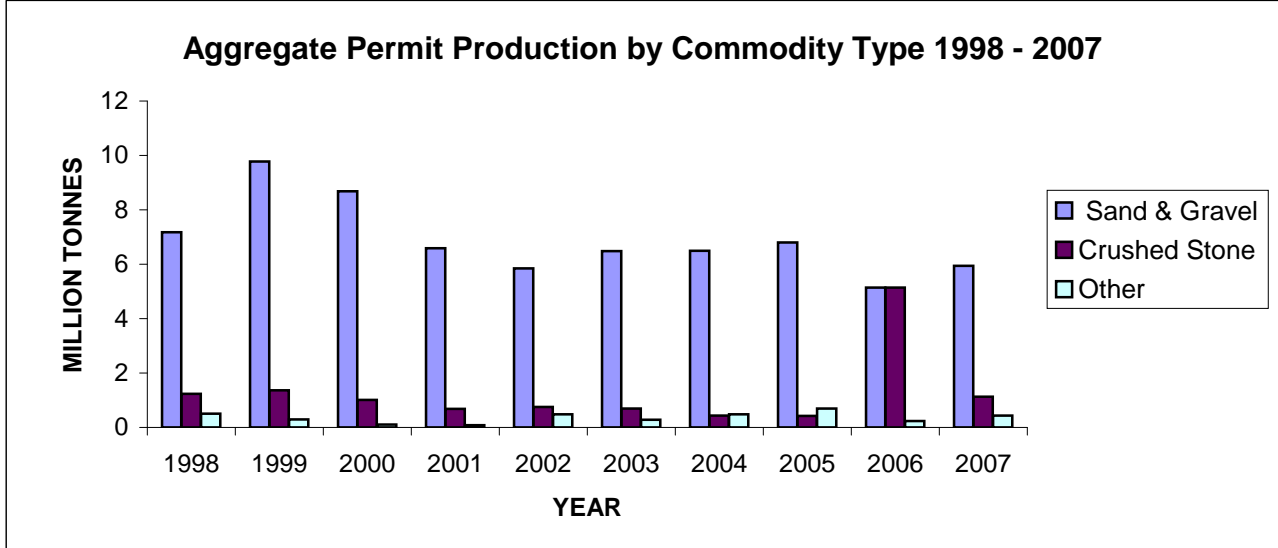
Region/District	Total Production	Sand & Gravel	Crushed Stone	Clay/Shale	Other Stone
NORTHEAST					
Chapleau	129,110.40	128,040.40	1,070.00	-	-
Cochrane	230,248.00	218,755.00	11,493.00	-	-
Hearst	380,055.33	252,531.52	126,245.01	-	1,278.80
Kirkland Lake	176,311.96	134,888.73	41,423.23	-	-
North Bay	261,796.88	240,837.76	19,934.40	-	1,024.72
Sault Ste. Marie	706,657.72	687,584.72	-	19,073.00	-
Sudbury	573,309.57	265,937.25	304,190.32	-	3,182.00
Timmins	1,069,469.35	741,900.37	-	286,844.00	40,724.98
Wawa	402,522.48	382,488.78	20,033.70	-	-
Sub-Total	3,929,481.69	3,052,964.53	524,389.66	305,917.00	46,210.50
NORTHWEST					
Dryden	454,797.75	266,717.75	186,687.00	-	1,393.00
Fort Frances	307,515.84	306,595.34	-	-	920.50
Kenora	144,043.36	128,784.57	4,399.00	-	10,859.79
Nipigon	786,653.06	560,766.56	225,713.14	-	173.36
Red Lake	488,886.31	488,123.31	672.00	-	91.00
Sioux Lookout	137,305.08	136,272.28	-	-	1,032.80
Thunder Bay	719,421.72	688,417.00	30,998.00	-	6.72
Sub-Total	3,038,623.12	2,575,676.81	448,469.14	-	14,477.17
SOUTHCENTRAL					
Algonquin Park	30,378.00	30,378.00	-	-	-
Aurora (GTA)	-	-	-	-	-
Aylmer	3,520.29	3,520.29	-	-	-
Bancroft	143,338.58	39,782.73	27,471.94	-	76,083.91
Guelph (Cambridge)	34,475.00	34,475.00	-	-	-
Kemptville	820.08	820.08	-	-	-
Midhurst	-	-	-	-	-
Parry Sound	274,754.50	151,306.78	122,134.72	-	1,313.00
Pembroke	55,461.52	55,461.52	-	-	-
Peterborough (Tweed)	5,746.07	-	5,746.07	-	-
Sub-Total	548,494.04	315,744.40	155,352.73	0.00	77,396.91
TOTAL	7,516,598.85	5,944,385.74	1,128,211.53	305,917.00	138,084.58

Note: Totals may not equal due to rounding - Reported in metric tonnes

Other Stone includes building stone, industrial stone, dimensional stone

Table 8

**2007 AGGREGATE PERMIT PRODUCTION
BY COMMODITY TYPE
(Reported By Year)**



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

	Total	Sand & Gravel	Crushed Stone	Other
1998	8.92	7.18	1.23	0.51
1999	11.44	9.78	1.37	0.29
2000	9.80	8.68	1.01	0.11
2001	7.35	6.59	0.68	0.08
2002	7.08	5.85	0.75	0.48
2003	7.45	6.48	0.69	0.28
2004	7.40	6.49	0.43	0.48
2005	7.91	6.80	0.42	0.69
2006	10.52	5.14	5.14	0.24
2007	7.51	5.94	1.13	0.44

Table 9

**2007 AGGREGATE PERMIT PRODUCTION
BY COMMODITY TYPE
(Reported by CAC* Geographic Areas)**

Area	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Southwest (1)	3,520	3,520	0	0	0
Peninsula (2)	34,475	34,475	0	0	0
West Central (3)	0	0	0	0	0
GTA (4)	0	0	0	0	0
East Central (5)	152,249	41,634	33,218	0	77,397
East (6)	58,025	58,025	0	0	0
Northeast (7)	2,975,521	1,987,830	654,637	286,844	46,211
Northwest (8)	4,292,809	3,818,902	440,357	19,073	14,477
TOTAL	7,516,599	5,944,386	1,128,212	305,917	138,085

Note: Totals may not equal due to rounding - Reported in metric tonnes

Other Stone includes building stone, industrial stone, dimensional stone

*CAC - Cement Association of Canada formerly CPCA - Canadian Portland Cement Association

**2007 AGGREGATE LICENCE PRODUCTION
BY COMMODITY TYPE
(Reported by CAC* Geographic Areas)**

Area	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Southwest (1)	20,048,230	15,353,365	4,614,946	79,871	48
Peninsula (2)	13,844,105	3,054,210	10,749,293	40,601	0
West Central (3)	37,765,359	29,651,057	7,837,464	83,656	193,183
GTA (4)	26,649,711	14,142,082	11,316,158	1,067,798	123,673
East Central (5)	19,785,849	9,052,946	10,602,800	6,314	123,789
East (6)	25,970,066	7,160,811	17,406,954	195,472	1,206,828
Northeast (7)	10,356,355	4,898,403	5,422,210	23,268	12,474
Northwest (8)	3,143,753	1,856,269	1,286,598	0	886
TOTAL	157,563,429	85,169,145	69,236,424	1,496,980	1,660,881

Note: Totals may not equal due to rounding - Reported in metric tonnes

Other Stone includes building stone, industrial stone, dimensional stone

*CAC - Cement Association of Canada formerly CPCA - Canadian Portland Cement Association

Table 10

**REHABILITATION OF
LICENCED AGGREGATE SITES IN 2007
(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)	160	8,721.63	3,126.07	79.55	134.42	3,071.20
Aylmer	307	8,393.91	2,922.15	132.98	105.66	2,949.48
Bancroft	266	8,994.68	918.16	66.43	4.86	979.73
Guelph (Cambridge)	449	16,143.42	4,758.34	291.33	147.40	4,902.26
Kemptville	490	14,137.83	4,060.79	148.74	82.17	4,127.36
Midhurst	463	14,279.79	3,486.86	129.71	81.25	3,535.32
North Bay	154	6,940.30	581.73	16.57	2.60	595.70
Parry Sound	307	9,737.63	1,617.35	52.90	0.00	1,670.25
Pembroke	239	5,919.36	680.73	29.94	13.30	697.36
Peterborough (Tweed)	534	15,104.99	3,593.27	88.77	57.80	3,624.24
Sault Ste. Marie	95	4,126.20	622.21	26.00	5.25	642.95
Sudbury	242	16,630.11	1,305.27	66.68	50.52	1,321.43
Thunder Bay	58	3,508.94	104.86	7.68	1.65	110.89
TOTAL	3,764	132,638.79	27,777.78	1,137.29	686.89	28,228.18

Note: Areas reported in hectares

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

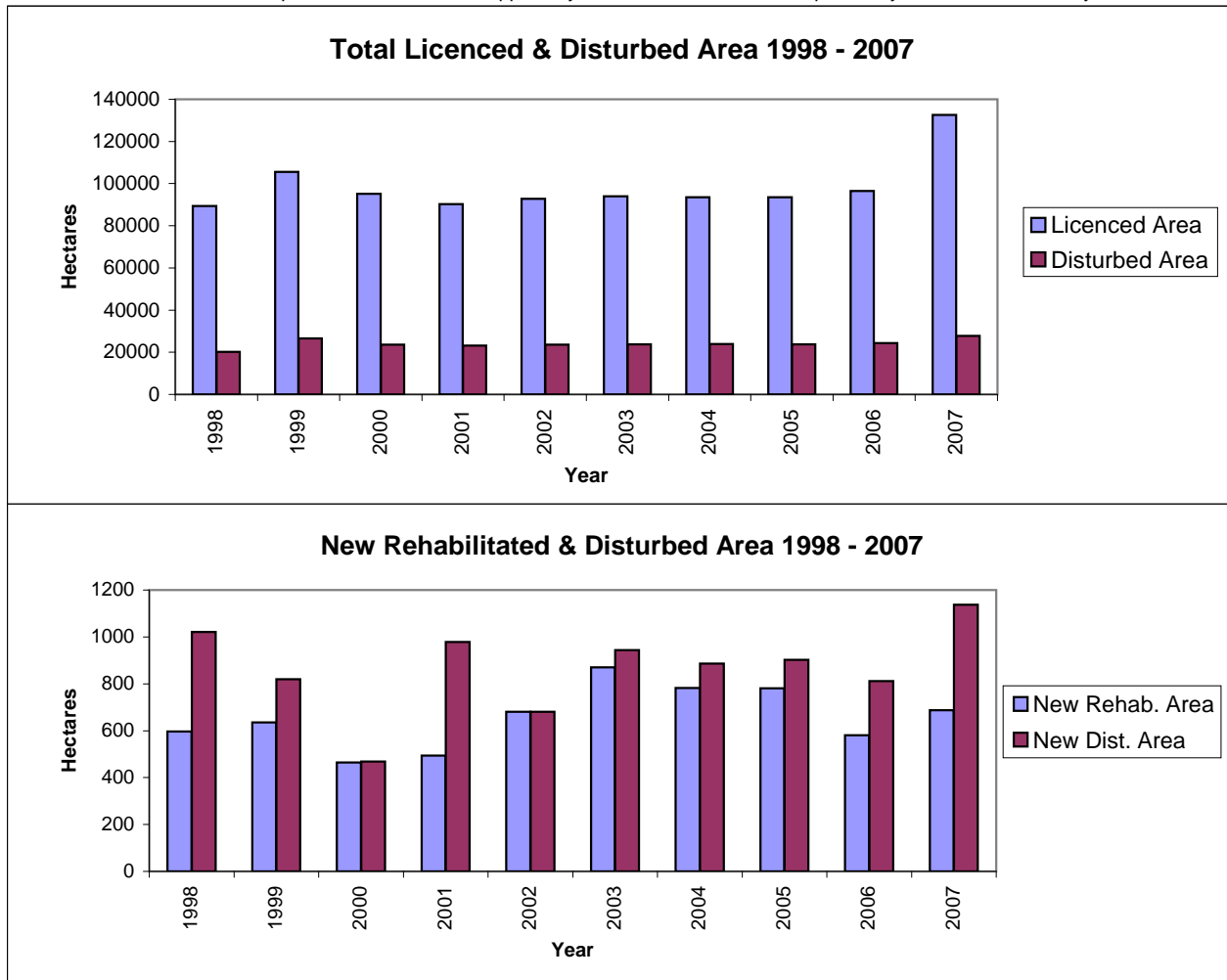


Table 11

**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	1,179.08	197	196	1	0	0
Cochrane	2,830.77	126	111	9	6	0
Hearst	3,730.76	181	159	18	4	0
Kirkland Lake	1,844.62	158	150	6	2	0
North Bay	2,368.44	193	169	19	5	0
Sault Ste. Marie	954.43	112	107	2	3	0
Sudbury	4,855.48	187	156	20	11	0
Timmins	2,023.16	171	159	9	3	0
Wawa	2,629.66	272	266	4	2	0
Sub-Total	22,416.40	1,597	1,473	88	36	0
NORTHWEST						
Dryden	2,307.19	239	224	8	7	0
Fort Frances	2,520.49	293	277	5	11	0
Kenora	2,931.99	209	170	25	14	0
Nipigon	3,750.88	322	293	17	12	0
Red Lake	1,433.86	124	121	3	0	0
Sioux Lookout	1,546.31	96	94	2	0	0
Thunder Bay	3,278.79	231	208	17	6	0
Sub-Total	17,769.51	1,514	1,387	77	50	0
SOUTHCENTRAL						
Algonquin Park	31.94	39	39	0	0	0
Aurora (GTA)	0.00	0	0	0	0	0
Aylmer	0.10	1	0	0	0	1
Bancroft	965.85	72	59	13	0	0
Guelph (Cambridge)	623.53	3	1	0	0	2
Kemptville	2.00	1	1	0	0	0
Midhurst	0.00	0	0	0	0	0
Parry Sound	831.48	91	70	14	6	1
Pembroke	127.44	41	41	0	0	0
Peterborough (Tweed)	31.40	2	0	1	1	0
Sub-Total	2,613.74	250	211	28	7	4
TOTAL	42,799.65	3,361	3,071	193	93	4

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

JULY 22, 2004

Andre
Bostwick
Franchere
Groseilliers
Legarde

Levesque
Macaskill
Menzies
Michipicoten
Musquash

Rabazo
St. Germain
Warpula

Newly Designated Private Lands (Effective January 1, 2007)

1. Those parts of the County of Frontenac consisting of the townships of Central Frontenac and North Frontenac.
2. Those parts of the County of Renfrew consisting of,
 - a) the Township of Bonnechere Valley, the Township of Brudenell, Lyndoch and Raglan, the Township of Head, Clara and Maria, the Township of Killaloe, Hagarty and Richards, the Township of Madawaska Valley and the Township of North Algona Wilberforce;
 - b) the Township of Greater Madawaska, except the townships of Bagot and Blythfield; and
 - c) the towns of Deep River and Laurentian Hills.
3. Those parts of the County of Lennox and Addington consisting of,
 - a) the Township of Addington Highlands; and
 - b) the Township of Stone Mills, except the Township of Camden East.
4. Those parts of the County of Hastings consisting of,
 - a) the Town of Bancroft;
 - b) the townships of Carlow/Mayo, Faraday, Limerick and Wollaston;
 - c) the Municipality of Hastings Highlands; and
 - d) the Township of Tudor and Cashel, except the Township of Tudor.
5. Those parts of the County of Peterborough consisting of,
 - a) the Township of Galway-Cavendish-Harvey, except the Township of Harvey;
 - b) the Township of Havelock-Belmont-Methuen, except the Township of Belmont and the Town of Havelock; and
 - c) the Township of North Kawartha.
6. All of the County of Haliburton.
7. Those parts of the Territorial District of Nipissing consisting of,
 - a) the Town of Mattawa;
 - b) the City of North Bay;
 - c) the Municipality of West Nipissing;
 - d) the townships of Bonfield, Calvin, Chisholm, East Ferris, Mattawan, Papineau- Cameron and South Algonquin; and
 - e) the geographical townships of Airy, Anglin, Antoine, Ballantyne, Barron, Biggar, Bishop, Blyth, Boulter, Bower, Boyd, Bronson, Butler, Butt, Canisbay, Charlton, Clancy, Clarkson, Commanda, Deacon, Devine, Dickson, Eddy, Edgar, Finlayson, Fitzgerald, French, Freswick, Garrow, Gladman, Guthrie, Hammell, Hunter, Jocko, Lauder, Lyman, Lister, Lockhart, Master, McCraney, McLaughlin, McLaren, Merrick, Mulock, Niven, Notman, Olig, Osborne, Osler, Paxton, Peck, Pentland, Phelps, Poitras, Preston, Sproule, Stewart, Stratton, Thistle, White and Wilkes

8. All parts of the Territorial District of Parry Sound consisting of,
 - a) the townships of Armour, Carling, Joly, Machar, McKellar, McMurrich/Monteith, Nipissing, Perry, Ryerson, Seguin, Strong and The Archipelago;
 - b) the municipalities of Powassan, Magnetawan, McDougall, Callander and Whitestone;
 - c) the towns of Kearney and Parry Sound;
 - d) the villages of Burk's Falls, South River and Sundridge; and
 - e) the geographical townships of Bethune, Blair, Brown, East Mills, Gurd, Hardy, Harrison, Henvey, Laurier, Lount, McConkey, Mowat, Patterson, Pringle, Proudfoot, Shawanaga, Wallbridge and Wilson.
9. All parts of the Territorial District of Muskoka consisting of,
 - a) the towns of Bracebridge, Gravenhurst and Huntsville;
 - b) the townships of Georgian Bay, Lake of Bays and Muskoka Lakes; and
 - c) the District Municipality of Muskoka.
10. Those parts of the Territorial District of Sudbury consisting of,
 - a) the Municipality of French River, except the geographical townships of Cosby, Delamere and Hoskin;
 - b) the Township of Sables – Spanish River, except the geographical townships of Gough, Hallam, Harrow, May, McKinnon and Shakespeare;
 - c) the Town of Killarney;
 - d) the Municipality of Killarney;
 - e) those parts of the City of Greater Sudbury consisting of the geographical townships of Aylmer, Fraleck, Hutton, MacKelcan, Parkin, Rathburn and Scadding; and
 - f) the geographical townships of Bevin, Caen, Carlyle, Cox, Davis, Dunlop, Halifax, Humboldt, Janes, Kelly, Leinster, McCarthy, Munster, Porter, Roosevelt, Shibananing, Truman, Tyrone and Waldie.
11. All parts of the Territorial District of Manitoulin, except Great LaCloche Island and Little LaCloche Island.
12. Those parts of the Territorial District of Algoma consisting of,
 - a) the towns of Blind River, Bruce Mines and Thessalon;
 - b) the City of Elliot Lake;
 - c) the townships of The North Shore, Plummer Additional and Shedden;
 - d) the Municipality of Huron Shores; and
 - e) the geographical townships of Aberdeen, Boon, Bridgland, Brule, Cadeau, Curtis, Dablon, Daumont, Deagle, Gaiashk, Galbraith, Gerow, Gillmor, Grenoble, Hughes, Hurlburt, Hynes, Kane, Kincaid, Lamming, Laverendrye, Marne, McMahan, Montgomery, Morin, Nicolet, Norberg, Palmer, Parkinson, Patton, Peever, Plummer, Rix, Rose, Ryan, Slater, Smilsky, Wells, Whitman and Wishart.
13. Those parts of the Territorial District of Thunder Bay consisting of,
 - a) the City of Thunder Bay;
 - b) the Municipality of Neebing; and
 - c) the townships of Conmee, Dorion, Gillies, O'Conner, Oliver Paipoonge and Shuniah.

Please refer to the Revised Regulations of Ontario for accuracy.

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		



Aggregate Officers of Ontario

