



# • MINERAL • AGGREGATES • IN ONTARIO

Statistical Update

**2 0 1 0**

Prepared by:



**THE ONTARIO AGGREGATE  
RESOURCES CORPORATION**

# **MINERAL AGGREGATES IN ONTARIO**

## **PRODUCTION STATISTICS**

**2010**

**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 2010, this basic non-renewable resource was supplied from 3,748 licensed aggregate sites on private land in designated parts of the Province and 2,964 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 Regional Operations Division, Integration Branch, Program Coordination Section. 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 2010 totaled approximately 166 million tonnes, up 13 million tonnes or 8.5% from the previous year. Production from licenced operations was up 13 million tonnes or 9.4% compared to 2009. Wayside permit production decreased 100% from 2009 on relatively small volumes (.2 million in 2009 compared to zero in 2010). Production from aggregate permits on Crown Land increased 6.7% from 2009 (8 million in 2010 from 7.5 million tonnes in 2009).

Note: Totals and percentage changes are based on rounded numbers from Table 1.



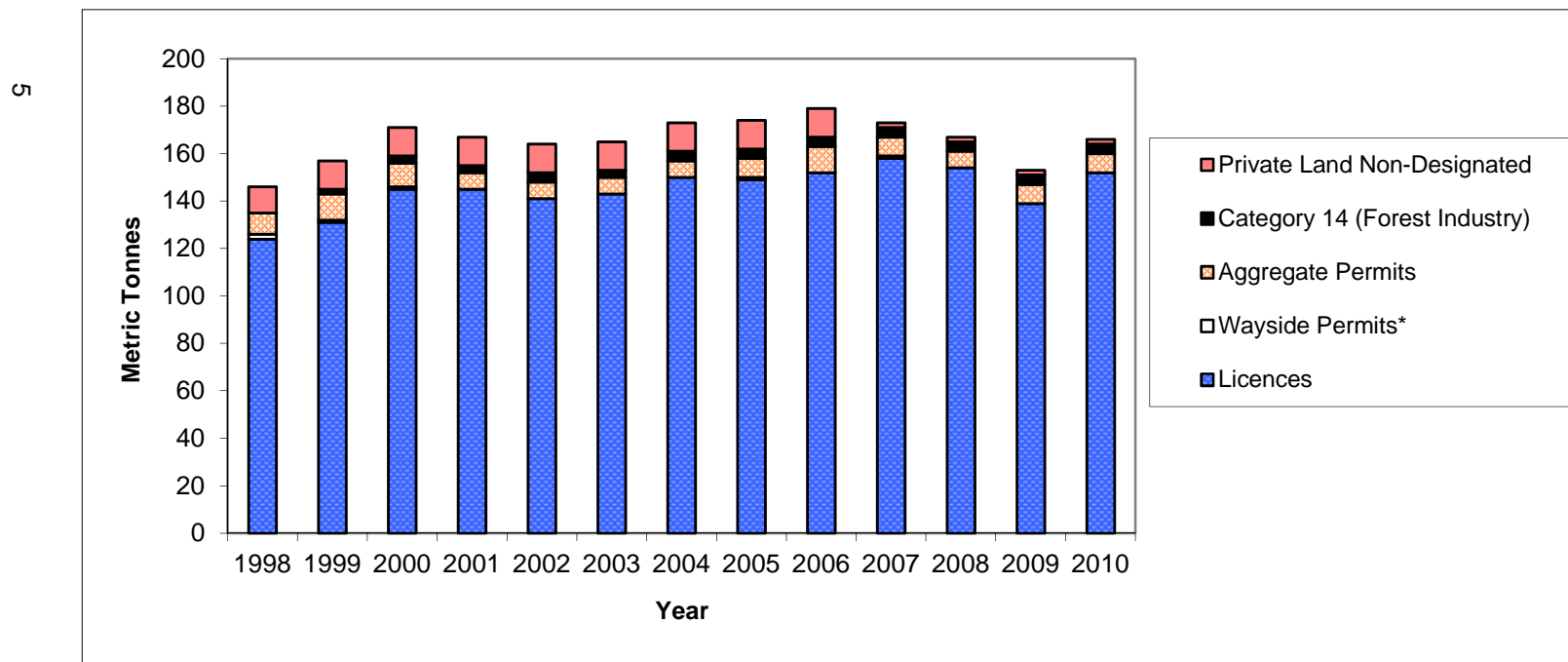
Table 1

**AGGREGATE PRODUCTION IN ONTARIO - 1998 - 2010**  
(rounded to nearest million tonnes)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Licences</b>	124	131	145	145	141	143	150	149	152	158	154	139	152
<b>Wayside Permits*</b>	2	1	1	0	0	0	0	1	0	1	0	0	0
<b>Aggregate Permits</b>	9	11	10	7	7	7	7	8	11	8	7	8	8
<b>Category 14 (Forest Industry)</b>	-	2	3	3	4	3	4	4	4	4	4	4	4
<b>Private Land Non-Designated (estimated)</b>	11	12	12	12	12	12	12	12	12	2	2	2	2
<b>ONTARIO TOTAL</b>	<b>146</b>	<b>157</b>	<b>171</b>	<b>167</b>	<b>164</b>	<b>165</b>	<b>173</b>	<b>174</b>	<b>179</b>	<b>173</b>	<b>167</b>	<b>153</b>	<b>166</b>

\*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, .3 million tonnes for 2006, .1 million tonnes for 2008, .2 million tonnes for 2009 and zero tonnes for 2010.



**Production Statistics Report**  
**Table 2 Lower Tier Grouping Guidelines**

The guiding principal is to not disclose the confidential information of a single client's tonnage.

1. There must be a least 3 clients with a minimum of 2 reporting tonnage, each with licenses, in any municipal (lower) tier that appears in the stats report.
2. If the above guideline can't be met then the grouping of lower tiers is required based on the following rules:
  - a. Upper tiers with multiple lower tier groups of 2 or less must be combined for the 3 client minimum lower tier grouping provided there are at least 2 clients reporting tonnage.
  - b. The preferred criteria for determining groups will be based on geographical proximity.
  - c. A single lower tier reporting ZERO tonnage is not reported if it is not required for the above minimum 3 client grouping.
  - d. If geographic proximity can't be resolved then historical (grouping of past stats reports) will determine grouping.

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b>Algoma District</b>			
Algoma District, Unorganized	73,358.87		73,358.87
Blind River, Town of/Spanish, Town of/The North Shore, Tp/ Elliot Lake, City of	114,641.20		114,641.20
Bruce Mines, Town of/Huron Shores, Municipality of/ Plummer Additional Tp	1,665,754.04		1,665,754.04
Hilton Tp	39,613.76		39,613.76
Jocelyn Tp	85,147.36		85,147.36
Johnson Tp/Tarbutt & Tarbutt Add'l Tp	43,907.63		43,907.63
Macdonald, Meredith & Aberdeen Add'l Tp/St. Joseph Tp	57,172.47		57,172.47
Sault Ste. Marie, City of/Prince Tp	848,137.95		848,137.95
<b>Sub-Total</b>	<b>2,927,733.28</b>	<b>0.00</b>	<b>2,927,733.28</b>
<b>Brant</b>			
Brant, County of/Brantford, City of	1,862,342.59		1,862,342.59
<b>Sub-Total</b>	<b>1,862,342.59</b>	<b>0.00</b>	<b>1,862,342.59</b>
<b>Bruce</b>			
Arran-Elderslie, Municipality of	159,394.83		159,394.83
Brockton, Municipality of	243,673.80		243,673.80
Huron-Kinloss Tp	420,752.97		420,752.97
Kincardine, Municipality of	100,862.80		100,862.80
Northern Bruce Peninsula, Municipality of	196,749.49		196,749.49
Saugeen Shores, Town of	364,528.49		364,528.49
South Bruce, Municipality of	384,516.06		384,516.06
South Bruce Peninsula, Town of	391,346.36		391,346.36
<b>Sub-Total</b>	<b>2,261,824.80</b>	<b>0.00</b>	<b>2,261,824.80</b>
<b>Chatham-Kent</b>			
Chatham-Kent, Municipality of	280,017.15		280,017.15
<b>Sub-Total</b>	<b>280,017.15</b>	<b>0.00</b>	<b>280,017.15</b>
<b>Dufferin</b>			
Amaranth Tp/East Luther Grand Valley Tp	184,357.78		184,357.78
East Garafraxa Tp	1,162,904.28		1,162,904.28
Melancthon Tp	632,535.08		632,535.08
Mono Tp	412,065.99		412,065.99
Mulmur Tp	279,165.70		279,165.70
<b>Sub-Total</b>	<b>2,671,028.83</b>	<b>0.00</b>	<b>2,671,028.83</b>
<b>Durham</b>			
Brock Tp	1,276,395.04		1,276,395.04
Clarington, Municipality of	4,890,254.28		4,890,254.28
Oshawa, City of/Scugog Tp	70,845.76		70,845.76
Uxbridge Tp	3,350,567.78		3,350,567.78
<b>Sub-Total</b>	<b>9,588,062.86</b>	<b>0.00</b>	<b>9,588,062.86</b>
<b>Elgin</b>			
Bayham/West Elgin, Municipality of/Malahide Tp	239,176.65		239,176.65
Central Elgin, Municipality of	264,744.80		264,744.80
<b>Sub-Total</b>	<b>503,921.45</b>	<b>0.00</b>	<b>503,921.45</b>

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b>Essex</b>			
Amherstburg, Town of/Leamington, Municipality of/Pelee Tp	2,289,326.45		2,289,326.45
Kingsville, Town of	350,870.93		350,870.93
<b>Sub-Total</b>	<b>2,640,197.38</b>	<b>0.00</b>	<b>2,640,197.38</b>
<b>Frontenac</b>			
Central Frontenac Tp	91,935.04		91,935.04
Frontenac Islands Tp	46,140.37		46,140.37
Kingston, City of	1,603,354.32		1,603,354.32
North Frontenac Tp	147,242.14		147,242.14
South Frontenac Tp	488,538.32		488,538.32
<b>Sub-Total</b>	<b>2,377,210.19</b>	<b>0.00</b>	<b>2,377,210.19</b>
<b>Greater Sudbury</b>			
Greater Sudbury, City of	2,468,922.47		2,468,922.47
<b>Sub-Total</b>	<b>2,468,922.47</b>	<b>0.00</b>	<b>2,468,922.47</b>
<b>Grey</b>			
Chatsworth Tp	457,748.23		457,748.23
Georgian Bluffs, Tp	430,152.13		430,152.13
Grey Highlands, Municipality of	403,479.96		403,479.96
Meaford, Municipality of	624,670.59		624,670.59
Southgate Tp	546,554.55		546,554.55
The Blue Mountains, Town of	244,825.10		244,825.10
West Grey, Municipality of	816,914.39		816,914.39
<b>Sub-Total</b>	<b>3,524,344.95</b>	<b>0.00</b>	<b>3,524,344.95</b>
<b>Haldimand</b>			
Haldimand, County of	1,351,099.35		1,351,099.35
<b>Sub-Total</b>	<b>1,351,099.35</b>	<b>0.00</b>	<b>1,351,099.35</b>
<b>Haliburton</b>			
Algonquin Highlands, Tp	39,934.46		39,934.46
Dysart et al, Tp	304,539.42		304,539.42
Highlands East, Tp	50,972.08		50,972.08
Minden Hills, TP	152,882.31		152,882.31
<b>Sub-Total</b>	<b>548,328.27</b>	<b>0.00</b>	<b>548,328.27</b>
<b>Halton</b>			
Burlington, City of/Halton Hills, Town of	3,507,699.18		3,507,699.18
Milton, Town of	3,725,413.87		3,725,413.87
<b>Sub-Total</b>	<b>7,233,113.05</b>	<b>0.00</b>	<b>7,233,113.05</b>
<b>Hamilton</b>			
Hamilton, City of	5,312,663.40		5,312,663.40
<b>Sub-Total</b>	<b>5,312,663.40</b>	<b>0.00</b>	<b>5,312,663.40</b>

Table 2

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

<b>Municipality</b>	<b>Licences</b> (Reported in Metric Tonnes)	<b>Wayside Permits</b>	<b>Total</b>
<b><i>Hastings</i></b>			
Bancroft, Town of	39,695.20		39,695.20
Belleville, City of	775,835.38		775,835.38
Carlo/Mayo Tp	19,787.76		19,787.76
Centre Hastings, Municipality of	137,892.50		137,892.50
Faraday Tp	42,426.36		42,426.36
Hasting Highlands	290,152.49		290,152.49
Limerick Tp	35,595.92		35,595.92
Madoc Tp	845,770.79		845,770.79
Marmora & Lake, Municipality of	12,827.48		12,827.48
Quinte West, City of	913,547.58		913,547.58
Tweed, Municipality of	82,719.46		82,719.46
Tyendinaga Tp	281,847.12		281,847.12
Wollaston	35,126.20		35,126.20
<b>Sub-Total</b>	<b>3,513,224.24</b>	<b>0.00</b>	<b>3,513,224.24</b>
<b><i>Huron</i></b>			
Ashfield-Colborne-Wawanosh Tp	783,013.35		783,013.35
Bluewater, Municipality of	12,152.00		12,152.00
Central Huron, Municipality of	472,451.45		472,451.45
Howick Tp	232,563.52		232,563.52
Huron East, Municipality of	646,196.39		646,196.39
Morris-Turnberry, Municipality of	139,793.15		139,793.15
North Huron Tp	65,464.10		65,464.10
South Huron, Municipality of	193,684.08		193,684.08
<b>Sub-Total</b>	<b>2,545,318.04</b>	<b>0.00</b>	<b>2,545,318.04</b>
<b><i>Kawartha Lakes</i></b>			
Kawartha Lakes, City of	4,577,148.45		4,577,148.45
<b>Sub-Total</b>	<b>4,577,148.45</b>	<b>0.00</b>	<b>4,577,148.45</b>
<b><i>Lambton</i></b>			
Warwick Tp/Plympton-Wyoming, Town of	320,204.85		320,204.85
Lambton Shores, Municipality of	158,585.52		158,585.52
<b>Sub-Total</b>	<b>478,790.37</b>	<b>0.00</b>	<b>478,790.37</b>
<b><i>Lanark</i></b>			
Beckwith Tp	599,599.75		599,599.75
Drummond-North Elmsley Tp	193,635.14		193,635.14
Lanark Highlands Tp	960,378.70		960,378.70
Mississippi Mills, Town of	974,819.03		974,819.03
Montague Tp	146,206.98		146,206.98
Tay Valley Tp	28,440.63		28,440.63
<b>Sub-Total</b>	<b>2,903,080.23</b>	<b>0.00</b>	<b>2,903,080.23</b>

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b>Leeds &amp; Grenville</b>			
Athens Tp/Front of Yonge Tp	276,635.68		276,635.68
Augusta Tp	129,275.59		129,275.59
Edwardsburgh-Cardinal Tp	117,046.50		117,046.50
Elizabethtown-Kitley Tp/Merrickville-Wolford, Village of	544,744.52		544,744.52
Leeds and the Thousand Islands Tp	601,627.62		601,627.62
North Grenville Tp	759,996.21		759,996.21
Rideau Lakes Tp	192,420.53		192,420.53
<b>Sub-Total</b>	<b>2,621,746.65</b>	<b>0.00</b>	<b>2,621,746.65</b>
<b>Lennox &amp; Addington</b>			
Addington Highlands Tp	43,818.49		43,818.49
Greater Napanee, Town of	415,792.17		415,792.17
Loyalist Tp	1,644,311.60		1,644,311.60
Stone Mills Tp	246,601.34		246,601.34
<b>Sub-Total</b>	<b>2,350,523.60</b>	<b>0.00</b>	<b>2,350,523.60</b>
<b>Manitoulin District</b>			
Assignack, Tp	7,750.55		7,750.55
Gordon/Barrie Island/Burpee & Mills, Tp/Cockburn Island, Tp	64,529.24		64,529.24
Billings, Tp	11,681.00		11,681.00
Central Manitoulin Tp	52,349.93		52,349.93
Northeastern Manitoulin & The Islands	202,960.22		202,960.22
Tehkummah, Tp	24,822.32		24,822.32
Unorganized - Manitoulin D	3,222,622.01		3,222,622.01
<b>Sub-Total</b>	<b>3,586,715.27</b>	<b>0.00</b>	<b>3,586,715.27</b>
<b>Middlesex</b>			
Adelaide Metcalfe Tp	22,601.00		22,601.00
London, City of	1,189,312.65		1,189,312.65
Lucan Biddulph Tp	5,634.28		5,634.28
Middlesex Centre Tp	578,483.89		578,483.89
North Middlesex, Municipality of	104,938.44		104,938.44
Strathroy-Caradoc Tp	12,648.50		12,648.50
Thames Centre, Municipality of	2,914,887.38		2,914,887.38
<b>Sub-Total</b>	<b>4,828,506.14</b>	<b>0.00</b>	<b>4,828,506.14</b>
<b>Muskoka</b>			
Bracebridge	734,987.72		734,987.72
Georgian Bay	16,574.80		16,574.80
Gravenhurst	128,963.72		128,963.72
Huntsville	1,059,808.18		1,059,808.18
Lake of Bays, Tp	205,487.61		205,487.61
Muskoka Lakes, Tp	267,605.66		267,605.66
<b>Sub-Total</b>	<b>2,413,427.69</b>	<b>0.00</b>	<b>2,413,427.69</b>
<b>Niagara</b>			
Fort Erie, Town of/Pelham, Town of/Port Colborne, City of/ Wainfleet Tp	2,208,969.42		2,208,969.42
Lincoln, Town of/Niagara-on-the-Lake, Town of	1,346,910.21		1,346,910.21
Niagara Falls, City of	1,023,723.64		1,023,723.64
<b>Sub-Total</b>	<b>4,579,603.27</b>	<b>0.00</b>	<b>4,579,603.27</b>

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b><i>Nipissing District</i></b>			
Bonfield Tp	26,147.05		26,147.05
Calvin Tp	33,984.69		33,984.69
Chisholm Tp	39,973.07		39,973.07
Mattawan Tp/South Algonquin Tp	5,624.60		5,624.60
North Bay, City of	548,084.93		548,084.93
Papineau-Cameron Tp	112,597.28		112,597.28
Unorganized - Nipissing D	954.00		954.00
West Nipissing, Municipality of	322,569.94		322,569.94
<b>Sub-Total</b>	<b>1,089,935.56</b>	<b>0.00</b>	<b>1,089,935.56</b>
<b><i>Norfolk</i></b>			
Norfolk, County of	480,827.30		480,827.30
<b>Sub-Total</b>	<b>480,827.30</b>	<b>0.00</b>	<b>480,827.30</b>
<b><i>Northumberland</i></b>			
Alnwick-Haldimand Tp	313,470.29		313,470.29
Brighton, Municipality of	210,331.98		210,331.98
Cramahe Tp	2,085,158.89		2,085,158.89
Hamilton Tp	245,945.60		245,945.60
Port Hope, Municipality of	7,750.11		7,750.11
Trent Hills, Municipality of	285,149.62		285,149.62
<b>Sub-Total</b>	<b>3,147,806.49</b>	<b>0.00</b>	<b>3,147,806.49</b>
<b><i>Ottawa</i></b>			
Ottawa, City of	12,742,542.87		12,742,542.87
<b>Sub-Total</b>	<b>12,742,542.87</b>	<b>0.00</b>	<b>12,742,542.87</b>
<b><i>Oxford</i></b>			
Blandford-Blenheim Tp	393,308.46		393,308.46
East Zorra-Tavistock Tp/Norwich Tp	168,593.45		168,593.45
South-West Oxford Tp	1,248,003.05		1,248,003.05
Zorra Tp	3,343,512.95		3,343,512.95
<b>Sub-Total</b>	<b>5,153,417.91</b>	<b>0.00</b>	<b>5,153,417.91</b>
<b><i>Parry Sound District</i></b>			
ArmourTp	1,201,129.55		1,201,129.55
Callander, Municipality of	34,210.80		34,210.80
Carling Tp/The Archipelago Tp	34,652.12		34,652.12
Joly Tp	19,224.04		19,224.04
Kearney, Town of	24,075.84		24,075.84
Macher Tp	585,536.61		585,536.61
Magnetawan, Municipality of	152,466.06		152,466.06
McDougall Tp	47,045.76		47,045.76
McKeller Tp	9,342.66		9,342.66
McMurrich-Monteith Tp	11,041.61		11,041.61
Nipissing Tp	19,532.42		19,532.42
Perry Tp	80,236.91		80,236.91
Powassan, Municipality of	87,354.67		87,354.67
Ryerson Tp	184,536.55		184,536.55
Seguin Tp	652,365.70		652,365.70
Strong Tp	32,248.10		32,248.10
Unorganized - Parry Sound	277,309.60		277,309.60
Whitestone The Municipality of	22,469.50		22,469.50
<b>Sub-Total</b>	<b>3,474,778.50</b>	<b>0.00</b>	<b>3,474,778.50</b>

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b><i>Peel</i></b>			
Caledon, Town of	3,887,442.70		3,887,442.70
<b>Sub-Total</b>	<b>3,887,442.70</b>	<b>0.00</b>	<b>3,887,442.70</b>
<b><i>Perth</i></b>			
North Perth, Town of/St. Marys, Separated Town of	38,750.35		38,750.35
Perth East Tp	549,890.71		549,890.71
Perth South Tp	1,932,591.26		1,932,591.26
West Perth Tp	207,554.00		207,554.00
<b>Sub-Total</b>	<b>2,728,786.32</b>	<b>0.00</b>	<b>2,728,786.32</b>
<b><i>Peterborough</i></b>			
Asphodel-Norwood Tp	500,542.00		500,542.00
Cavan-Millbrook-North Monaghan Tp	1,309.43		1,309.43
Douro-Dummer Tp	629,325.02		629,325.02
Galway-Cavendish-Harvey Tp	378,849.70		378,849.70
North Kawartha Tp	684,845.57		684,845.57
Havelock-Belmont-Methuen Tp	9,355.47		9,355.47
Otonabee-South Monaghan Tp	440,153.65		440,153.65
Smith-Ennismore-Lakefield Tp	636,230.33		636,230.33
<b>Sub-Total</b>	<b>3,280,611.17</b>	<b>0.00</b>	<b>3,280,611.17</b>
<b><i>Prescott &amp; Russell</i></b>			
Alfred & Plantagenet Tp	388,149.12		388,149.12
Champlain Tp	610,532.00		610,532.00
Clarence-Rockland, City of	224,007.26		224,007.26
East Hawkesbury Tp	43,337.44		43,337.44
Russell Tp	47,254.09		47,254.09
The Nation, Municipality of	333,823.32		333,823.32
<b>Sub-Total</b>	<b>1,647,103.23</b>	<b>0.00</b>	<b>1,647,103.23</b>
<b><i>Prince Edward Co</i></b>			
Prince Edward, County of	1,693,747.90		1,693,747.90
<b>Sub-Total</b>	<b>1,693,747.90</b>	<b>0.00</b>	<b>1,693,747.90</b>
<b><i>Renfrew</i></b>			
Admaston-Bromley Tp/Renfrew, Town of	138,667.08		138,667.08
Bonnechere Valley Tp	207,286.94		207,286.94
Brudenell, Lyndoc and Raglan Tp	65,079.80		65,079.80
Deep River Tp/Head, Clara & Maria Tp	14,170.40		14,170.40
Greater Madawaska Tp	32,611.06		32,611.06
Horton Tp	450,050.27		450,050.27
Killaloe, Hagarty and Richards Tp	36,664.64		36,664.64
Laurentian Hills	112,690.85		112,690.85
Laurentian Valley Tp	459,571.25		459,571.25
Madawaska Valley	117,590.66		117,590.66
McNab-Braeside Tp	270,436.80		270,436.80
North Algona-Wilberforce Tp	29,109.40		29,109.40
Petawawa, Town of	237,516.79		237,516.79
Whitewater Region Tp	174,825.06		174,825.06
<b>Sub-Total</b>	<b>2,346,271.00</b>	<b>0.00</b>	<b>2,346,271.00</b>



Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b><i>Simcoe</i></b>			
Adjala-Tosorontio Tp	346,416.66		346,416.66
Bradford West Gwillimbury, Town of/Midland, Town of/ Penetanguishine, Town of/Collingwood, Town of	280,514.97		280,514.97
Clearview Tp	1,026,526.01		1,026,526.01
Essa Tp	75,625.50		75,625.50
Innisfil, Town of	30,103.42		30,103.42
New Tecumseth, Town of	48,898.59		48,898.59
Oro-Medonte Tp	2,408,496.05		2,408,496.05
Ramara Tp	2,117,756.75		2,117,756.75
Severn Tp	2,558,545.15		2,558,545.15
Springwater Tp	1,045,835.96		1,045,835.96
Tay Tp	72,638.41		72,638.41
Tiny Tp	244,070.97		244,070.97
<b>Sub-Total</b>	<b>10,255,428.44</b>	<b>0.00</b>	<b>10,255,428.44</b>
<b><i>Stormont, Dundas &amp; Glengarry</i></b>			
North Dundas Tp	869,313.10		869,313.10
North Glengarry Tp	72,347.75		72,347.75
North Stormont Tp	968,647.73		968,647.73
South Dundas Tp	216,444.15		216,444.15
South Glengarry Tp	313,861.97		313,861.97
South Stormont Tp	888,240.55		888,240.55
<b>Sub-Total</b>	<b>3,328,855.25</b>	<b>0.00</b>	<b>3,328,855.25</b>
<b><i>Sudbury District</i></b>			
Baldwin Tp	60,876.92		60,876.92
French River, Municipality of	128,495.87		128,495.87
Killarny, Municipality of/Nairn & Hyman Tp	138,834.58		138,834.58
Markstay-Warren, Municipality of	64,375.97		64,375.97
Sables Spanish Rivers Tp/Espanola, Town of	75,992.02		75,992.02
Sudbury District, Unorganized	367,663.46		367,663.46
<b>Sub-Total</b>	<b>836,238.82</b>	<b>0.00</b>	<b>836,238.82</b>
<b><i>Thunder Bay District</i></b>			
Conmee, Tp	298,936.38		298,936.38
Neebing, Municipality of	15,456.43		15,456.43
Oliver Paipoonge, Municipality of	143,124.61		143,124.61
Shuniah, Tp	312,045.23		312,045.23
Thunder Bay, City of	10,336.00		10,336.00
<b>Sub-Total</b>	<b>779,898.65</b>	<b>0.00</b>	<b>779,898.65</b>
<b><i>Waterloo</i></b>			
Cambridge, City of/Kitchener, City of	289,467.88		289,467.88
North Dumfries Tp	3,831,420.67		3,831,420.67
Wellesley Tp	1,313,632.11		1,313,632.11
Wilmot Tp	1,438,998.56		1,438,998.56
Woolwich Tp	598,453.40		598,453.40
<b>Sub-Total</b>	<b>7,471,972.62</b>	<b>0.00</b>	<b>7,471,972.62</b>

Table 2

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

Municipality	Licences (Reported in Metric Tonnes)	Wayside Permits	Total
<b>Wellington</b>			
Centre Wellington Tp	970,025.52		970,025.52
Erin, Town of	818,998.11		818,998.11
Guelph-Eramosa Tp	856,966.21		856,966.21
Mapleton Tp	55,468.16		55,468.16
Minto, Town of	365,430.14		365,430.14
Puslinch Tp	3,606,023.73		3,606,023.73
Wellington North Tp	100,854.94		100,854.94
<b>Sub-Total</b>	<b>6,773,766.81</b>	<b>0.00</b>	<b>6,773,766.81</b>
<b>York</b>			
East Gwillimbury, Town of	254,993.70		254,993.70
Georgina, Town of	14,765.85		14,765.85
Whitchurch-Stouffville, Town of	418,991.21		418,991.21
<b>Sub-Total</b>	<b>688,750.76</b>	<b>0.00</b>	<b>688,750.76</b>
<b>GRAND TOTAL</b>	<b>151,757,076.27</b>	<b>0.00</b>	<b>151,757,076.27</b>

Table 3

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

<b>Municipality</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Algoma, District of	0.6	0.8	0.6	0.8	1.9	1.2	2.8	2.9	2.6	2.9
Brant Co.	2.0	1.8	2.1	2.0	1.8	2.3	2.3	2.2	1.4	1.9
Bruce Co.	1.6	1.7	1.7	1.9	1.8	2.3	2.4	2.0	1.7	2.3
Chatham-Kent, R. M. of	0.3	0.5	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.3
Dufferin Co.	2.4	2.3	3.0	2.7	2.9	3.1	3.0	3.1	2.7	2.7
Durham, R. M. of	11.4	11.0	11.8	12.6	13.2	12.2	11.7	10.0	8.3	9.6
Elgin Co.	0.6	0.5	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.5
Essex Co.	2.2	1.9	1.9	1.9	1.7	1.6	1.7	1.6	1.7	2.6
Frontenac Co.	1.3	1.6	2.0	2.2	2.4	2.1	2.1	2.9	2.6	2.4
Greater Sudbury, City of	1.8	2.3	1.7	2.2	2.8	2.9	2.7	3.2	2.1	2.5
Grey Co.	2.6	2.6	3.1	3.2	3.7	3.4	3.2	3.3	2.9	3.5
Haldimand Co.	1.5	1.9	1.8	1.6	2.0	1.8	1.4	1.3	1.1	1.4
Haliburton Co.	----	----	----	----	----	----	0.5	0.6	0.5	0.5
Halton, R. M. of	15.8	12.1	10.7	11.4	10.9	9.6	9.5	8.5	6.9	7.2
Hamilton, City of	6.0	5.5	6.0	6.3	5.6	6.2	5.6	5.7	4.9	5.3
Hastings Co.	2.0	2.1	2.4	2.3	2.1	2.3	2.6	3.0	3.4	3.5
Huron Co.	3.0	2.7	2.8	2.5	2.6	2.7	2.9	2.9	3.0	2.5
Kawartha Lakes, City of	6.4	6.4	6.7	6.8	6.8	6.5	5.9	5.5	4.5	4.6
Lambton Co.	0.5	0.7	0.4	0.5	0.7	0.7	0.5	0.6	0.5	0.5
Lanark Co.	1.7	2.0	2.4	2.3	2.3	2.3	2.3	1.9	2.5	2.9
Leeds & Grenville Co.'s	2.3	2.0	1.9	2.2	2.3	2.3	2.0	2.3	2.1	2.6
Lennox & Addington Co.	1.8	1.7	1.9	1.8	1.9	1.9	2.0	2.0	2.0	2.4
Manitoulin, District of	----	----	----	----	----	----	3.6	3.9	2.9	3.6
Middlesex Co.	6.0	5.4	5.6	6.2	6.2	5.6	5.2	4.8	4.3	4.8
Muskoka	----	----	----	----	----	----	2.1	2.1	2.3	2.4
Niagara, R. M. of	4.6	4.9	4.6	4.7	4.5	5.1	4.0	4.0	3.9	4.6
Nipissing, District of	----	----	----	----	----	----	1.3	1.2	1.2	1.1
Norfolk Co.	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.5
Northumberland Co.	3.1	3.0	3.4	3.3	3.5	3.4	3.4	3.0	2.8	3.1
Ottawa, City of	10.1	10.7	10.0	9.9	10.6	11.1	11.4	11.2	11.0	12.7
Oxford Co.	4.9	4.8	4.9	4.8	5.0	5.4	7.1	5.8	4.9	5.2
Parry Sound, District of	----	----	----	----	----	----	1.5	1.8	2.4	3.5
Peel, R. M. of	5.2	4.3	4.5	5.3	5.1	5.3	4.7	3.8	3.6	3.9
Perth Co.	2.0	2.1	2.0	2.0	2.0	2.4	2.1	1.9	1.9	2.7
Peterborough Co.	2.4	3.2	2.5	2.5	2.7	2.6	2.9	3.2	3.2	3.3
Prescott & Russell Co.'s	1.4	1.3	1.4	1.4	1.7	1.5	1.4	1.7	1.7	1.6
Prince Edward Co.	2.0	2.1	2.2	2.2	2.4	2.2	2.4	2.4	1.6	1.7
Renfrew Co.	1.2	1.8	1.6	1.7	1.3	1.9	2.3	2.1	2.3	2.3
Simcoe Co.	10.6	11.4	11.8	12.7	12.6	13.4	12.0	12.1	10.5	10.3
Stormont, Dundas & Glengarry Co.'s	2.7	2.6	2.7	3.5	3.0	3.4	2.8	3.2	3.4	3.3
Sudbury, District of	1.0	0.6	0.6	0.6	0.8	0.8	1.7	1.1	0.8	0.8
Thunder Bay, District of	----	----	----	----	----	----	0.3	0.7	1.0	0.8
Waterloo, R. M. of	8.2	7.8	8.0	9.5	8.2	9.3	8.2	7.9	7.1	7.5
Wellington Co.	8.9	8.9	9.1	9.1	8.3	8.8	9.0	8.0	6.6	6.8
York, R. M. of	2.4	2.4	2.0	1.9	1.0	1.0	0.7	1.1	1.0	0.7
<b>TOTAL</b>	<b>144.9</b>	<b>141.8</b>	<b>143.2</b>	<b>149.8</b>	<b>149.7</b>	<b>152.0</b>	<b>158.8</b>	<b>153.8</b>	<b>139.0</b>	<b>151.8</b>

Note: Totals may not equal due to rounding.

Table 4

**LICENCE PRODUCTION IN 2010  
THE TOP TEN PRODUCING MUNICIPALITIES  
(Rounded to nearest million tonnes)**

Municipality(1)	County/Region	2010 Production	Production(2)				
			2009	2008	2007	2006	2005
1	City of Ottawa	12.7	11.0	11.2	11.0	11.1	10.6
2	City of Hamilton	5.3	4.9	5.7	5.6	6.2	5.6
3	Municipality of Clarington	4.9	4.1	4.6	5.2	5.0	5.8
4	City of Kawartha Lakes	4.6	4.5	5.5	5.9	6.5	6.8
5	Town of Caledon	3.9	3.6	3.8	4.7	5.3	5.1
6	Township of North Dumfries	3.8	3.4	3.7	4.2	5.0	4.1
7	Town of Milton	3.7	3.7	4.5	4.4	4.6	5.0
8	Puslinch Township	3.6	3.4	3.9	4.2	4.7	5.0
9	Township of Uxbridge	3.4	3.0	3.7	4.6	5.4	5.3
10	Township of Zorra	3.3	2.8	3.6	4.1	3.9	3.9
<b>Total</b>		<b>49.2</b>	<b>44.4</b>	<b>50.2</b>	<b>53.9</b>	<b>57.7</b>	<b>57.2</b>

## Notes:

1. Municipalities are ranked in order of their licenced production for 2010.
2. Historical data are for current year's Top Ten Producing Municipalities.
3. Pre 2009 historical data for Table 4 has been corrected effective February 24, 2011.

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)	143	124	19	127	16	0	0
Aylmer	302	237	65	288	8	6	0
Bancroft	270	99	171	194	33	43	0
Guelph (Cambridge)	454	387	67	416	35	3	0
Kemptville	478	282	196	335	120	23	0
Midhurst	474	357	117	415	54	5	0
North Bay	150	61	89	120	6	24	0
Parry Sound	304	119	185	196	11	97	0
Pembroke	237	75	162	215	12	10	0
Peterborough (Tweed)	537	295	242	433	87	17	0
Sault Ste. Marie	96	52	44	79	6	11	0
Sudbury	241	126	115	173	19	49	0
Thunder Bay	59	24	35	49	3	7	0
Wawa	2	2	0	1	0	1	0
<b>TOTAL</b>	<b>3,747</b>	<b>2,240</b>	<b>1,507</b>	<b>3,041</b>	<b>410</b>	<b>296</b>	<b>0</b>

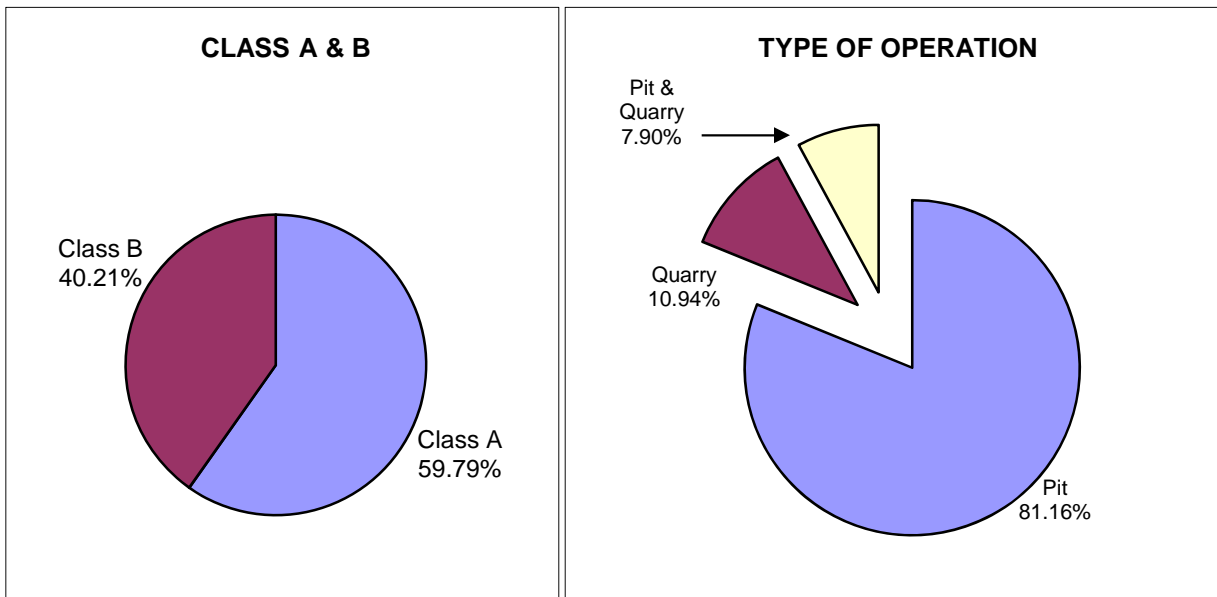
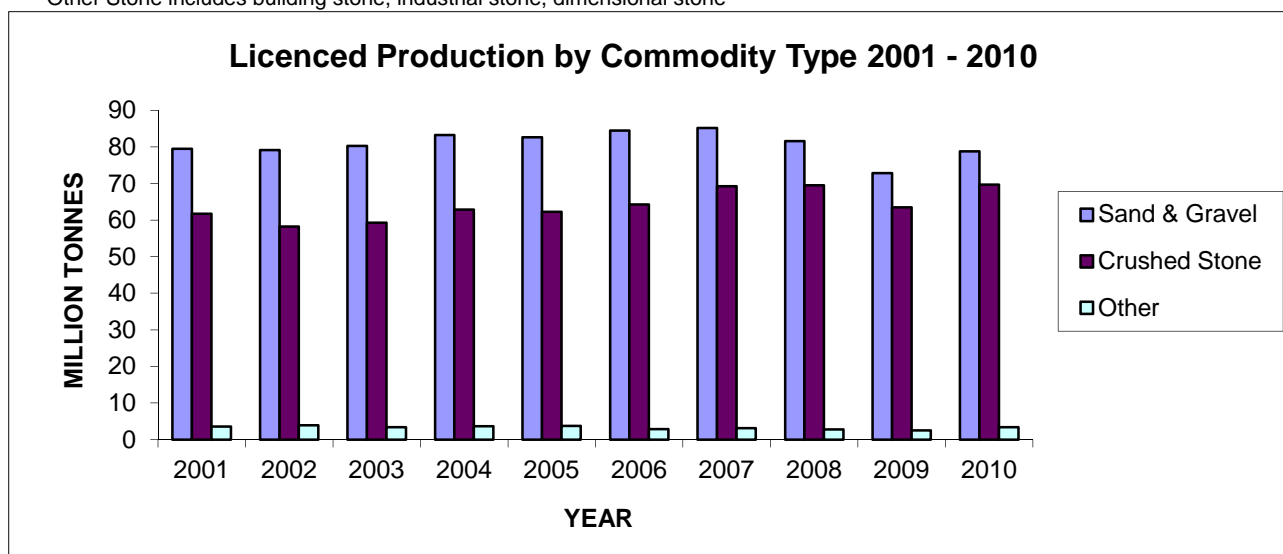


Table 6

**2010 LICENCED AGGREGATE PRODUCTION  
BY COMMODITY TYPE  
(Reported by MNR District)**

District	Total	Sand & Gravel	Crushed Stone	Clay/ Shale	Other Stone
Aurora (GTA)	21,395,169.37	12,022,346.89	8,509,177.32	767,904.79	95,740.37
Aylmer	14,365,677.70	10,516,800.29	3,806,510.21	21,099.51	21,267.69
Bancroft	3,823,611.80	973,668.47	2,730,928.24	1,578.48	117,436.61
Guelph (Cambridge)	32,707,609.81	20,196,502.25	12,344,042.00	150,077.86	16,987.70
Kemptville	23,243,328.23	4,808,756.02	16,949,554.74	20,704.60	1,464,312.87
Midhurst	18,630,569.61	11,932,984.09	6,408,052.60	44,403.81	245,129.11
North Bay	1,286,090.73	900,382.49	372,751.34	0.00	12,956.90
Parry Sound	5,730,018.31	3,403,559.56	2,191,718.33	20,576.97	114,163.45
Pembroke	2,346,271.00	2,004,916.97	321,057.85	10,498.80	9,797.38
Peterborough	17,635,570.96	7,150,842.95	10,418,107.31	44,118.54	22,502.16
Sault Ste. Marie	2,901,225.28	1,655,794.88	1,244,980.90	0.00	449.50
Sudbury	6,912,034.82	2,564,632.55	4,219,182.95	121,811.19	6,408.13
Thunder Bay	779,898.65	651,471.61	119,801.04	0.00	8,626.00
<b>TOTAL</b>	<b>151,757,076.27</b>	<b>78,782,659.01</b>	<b>69,635,864.84</b>	<b>1,202,774.55</b>	<b>2,135,777.87</b>

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
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
2008	153.80	81.55	69.52	2.73
2009	138.84	72.79	63.51	2.54
2010	151.76	78.78	69.64	3.34

Table 7

**2010 AGGREGATE PERMIT PRODUCTION  
BY COMMODITY TYPE  
(Reported by MNR District)**

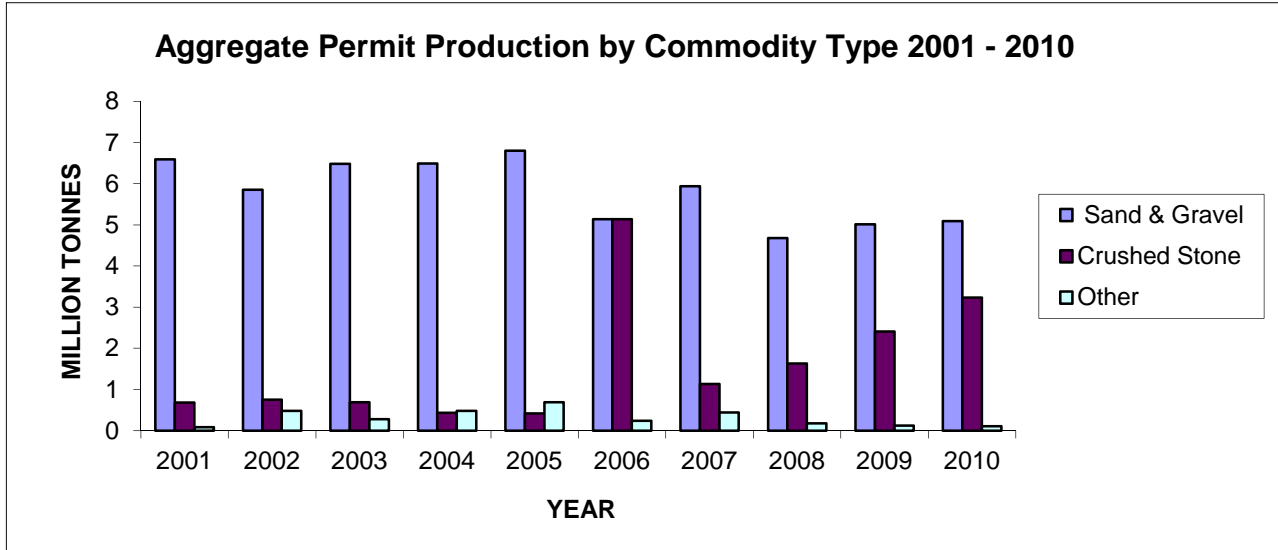
<b>Region/District</b>	<b>Total Production</b>	<b>Sand &amp; Gravel</b>	<b>Crushed Stone</b>	<b>Clay/Shale</b>	<b>Other Stone</b>
<b>NORTHEAST</b>					
Chapleau	60,478.30	60,478.30	-	-	-
Cochrane	314,103.25	308,463.25	5,640.00	-	-
Hearst	1,049,834.64	645,874.64	402,490.00	1,470.00	-
Kirkland Lake	601,798.01	251,820.01	349,978.00	-	-
North Bay	542,093.49	442,528.79	96,914.95	-	2,649.75
Sault Ste. Marie	276,284.87	276,284.87	-	-	-
Sudbury	1,055,136.05	474,930.90	571,680.11	190.40	8,334.64
Timmins	258,937.88	258,937.88	-	-	-
Wawa	255,627.54	248,817.54	6,810.00	-	-
<b>Sub-Total</b>	<b>4,414,294.03</b>	<b>2,968,136.18</b>	<b>1,433,513.06</b>	<b>1,660.40</b>	<b>10,984.39</b>
<b>NORTHWEST</b>					
Dryden	663,568.15	275,607.15	386,904.00	-	1,057.00
Fort Frances	633,069.84	531,593.12	96,764.72	4,080.00	632.00
Kenora	178,641.63	105,360.80	56,619.96	2,720.00	13,940.87
Nipigon	510,817.42	319,282.78	190,899.84	-	634.80
Red Lake	212,409.53	107,589.13	104,800.00	-	20.40
Sioux Lookout	282,267.11	281,535.43	-	-	789.31
Thunder Bay	318,840.08	286,055.45	32,698.00	-	29.00
<b>Sub-Total</b>	<b>2,799,613.76</b>	<b>1,907,023.86</b>	<b>868,686.52</b>	<b>6,800.00</b>	<b>17,103.38</b>
<b>SOUTHCENTRAL</b>					
Algonquin Park	-	-	-	-	-
Aurora (GTA)	-	-	-	-	-
Aylmer	698.84	698.84	-	-	-
Bancroft	314,895.06	24,987.60	221,159.74	1,274.00	67,473.72
Guelph (Cambridge)	-	-	-	-	-
Kemptville	1,153.28	1,153.28	-	-	-
Midhurst	-	-	-	-	-
Parry Sound	648,160.12	88,200.90	558,239.22	-	1,720.00
Pembroke	102,378.49	102,378.49	-	-	-
Peterborough (Tweed)	153,549.52	-	153,549.52	-	-
<b>Sub-Total</b>	<b>1,220,835.31</b>	<b>217,419.11</b>	<b>932,948.48</b>	<b>1274.00</b>	<b>69,193.72</b>
<b>TOTAL</b>	<b>8,434,743.10</b>	<b>5,092,579.15</b>	<b>3,235,148.06</b>	<b>9,734.40</b>	<b>97,281.49</b>

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

Other Stone includes building stone, industrial stone, dimensional stone

Table 8

**2010 AGGREGATE PERMIT PRODUCTION  
BY COMMODITY TYPE  
(Reported By Year)**



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

	Total	Sand & Gravel	Crushed Stone	Other
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
2008	6.49	4.68	1.63	0.18
2009	7.54	5.01	2.41	0.12
2010	8.43	5.09	3.23	0.11



Table 9

**2010 AGGREGATE PERMIT PRODUCTION  
BY COMMODITY TYPE  
(Reported by CAC\* Geographic Areas)**

<b>Area</b>	<b>Total</b>	<b>Sand &amp; Gravel</b>	<b>Crushed Stone</b>	<b>Clay/ Shale</b>	<b>Other Stone</b>
Southwest (1)	699	699	0	0	0
Peninsula (2)	0	0	0	0	0
West Central (3)	0	0	0	0	0
GTA (4)	0	0	0	0	0
East Central (5)	470,515	25,938	375,159	1,274	68,144
East (6)	104,838	104,838	0	0	0
Northeast (7)	4,480,942	2,483,182	1,986,775	1,660	9,325
Northwest (8)	3,377,750	2,477,923	873,214	6,800	19,813
<b>TOTAL</b>	<b>8,434,743</b>	<b>5,092,579</b>	<b>3,235,148</b>	<b>12,330</b>	<b>97,281</b>

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

**2010 AGGREGATE LICENCE PRODUCTION  
BY COMMODITY TYPE  
(Reported by CAC\* Geographic Areas)**

<b>Area</b>	<b>Total</b>	<b>Sand &amp; Gravel</b>	<b>Crushed Stone</b>	<b>Clay/ Shale</b>	<b>Other Stone</b>
Southwest (1)	19,158,955	14,263,951	4,825,768	30,981	38,255
Peninsula (2)	13,586,536	2,729,611	10,789,720	67,205	0
West Central (3)	32,958,366	25,652,725	6,943,117	117,395	245,129
GTA (4)	21,397,369	12,024,347	8,509,177	767,905	95,940
East Central (5)	19,174,294	8,268,163	10,664,554	37,071	204,506
East (6)	30,317,333	7,571,566	21,200,952	60,185	1,484,631
Northeast (7)	11,456,591	5,964,058	5,312,259	122,032	58,241
Northwest (8)	3,707,632	2,308,238	1,390,318	0	9,076
<b>TOTAL</b>	<b>151,757,076</b>	<b>78,782,659</b>	<b>69,635,865</b>	<b>1,202,775</b>	<b>2,135,778</b>

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 2010  
(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)	143	8,155.82	3,005.85	36.47	150.95	2,891.37
Aylmer	302	8,516.25	2,902.91	125.79	116.64	2,912.06
Bancroft	270	9,439.12	1,101.85	33.60	12.66	1,122.78
Guelph (Cambridge)	454	16,181.77	4,803.76	133.94	112.94	4,824.77
Kemptville	478	14,285.97	4,248.49	155.26	32.48	4,371.27
Midhurst	474	15,131.71	3,644.30	190.53	84.15	3,750.69
North Bay	150	7,122.90	957.69	61.90	112.31	907.28
Parry Sound	304	9,717.78	1,861.62	142.58	24.07	1,980.13
Pembroke	237	5,831.72	774.35	41.56	9.50	806.41
Peterborough (Tweed)	537	15,279.22	3,731.41	77.27	21.60	3,787.07
Sault Ste. Marie	96	4,058.45	672.00	27.30	1.15	698.15
Sudbury	241	16,990.46	1,522.73	72.38	41.43	1,553.68
Thunder Bay	59	3,619.28	235.31	4.79	2.61	237.49
Wawa	2	46.87	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>3,747</b>	<b>134,377.32</b>	<b>29,462.27</b>	<b>1,103.36</b>	<b>722.50</b>	<b>29,843.13</b>

Note: Areas reported in hectares

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

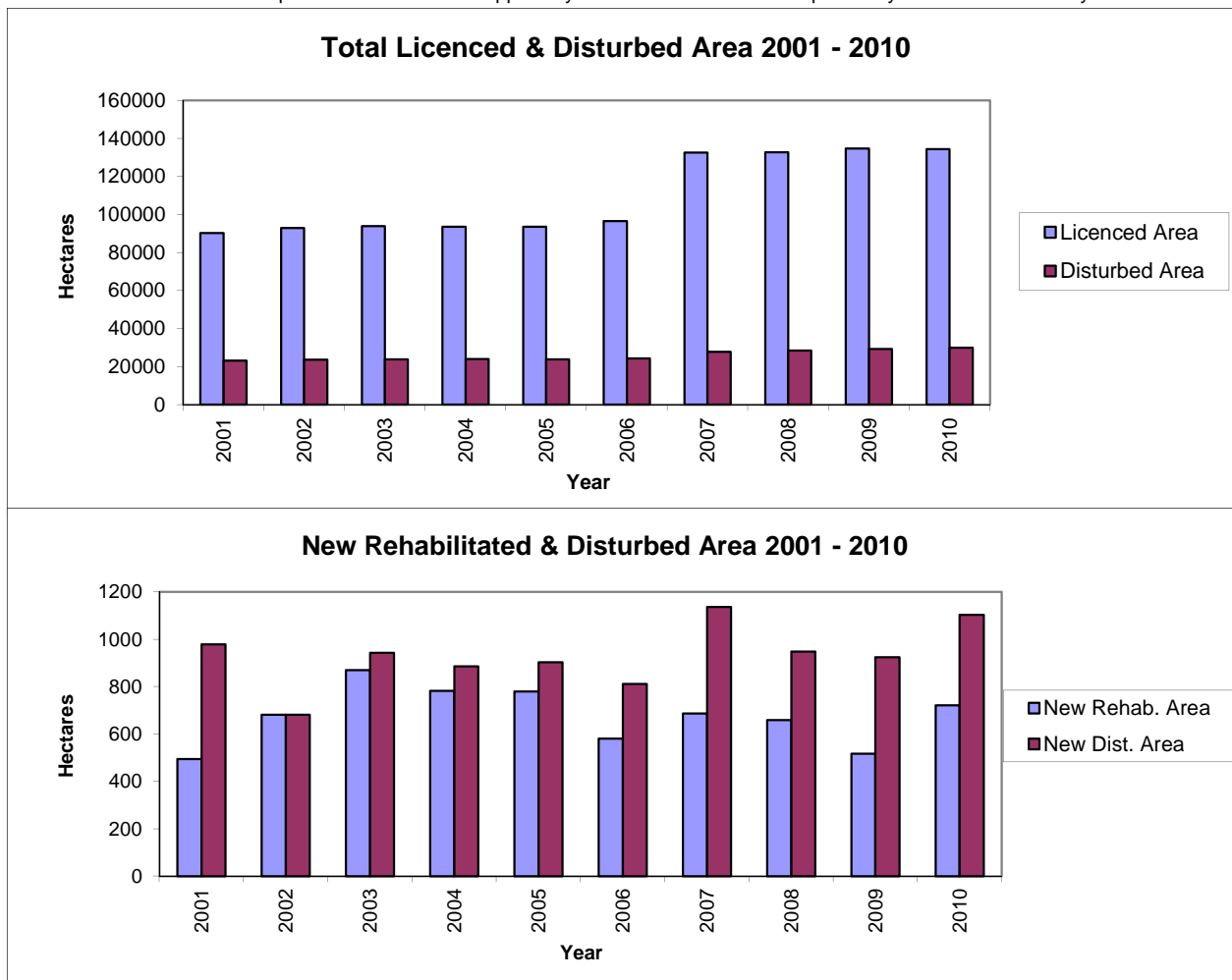


Table 11

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

Region/District	Total Hectarage	Total No. of Permits	Pit	Quarry	Pit & Quarry	Underwater
<b>NORTHEAST</b>						
Chapleau	1,153.73	182	180	2	0	0
Cochrane	2,638.38	129	114	9	6	0
Hearst	3,809.13	187	162	21	4	0
Kirkland Lake	2,048.65	162	150	10	2	0
North Bay	2,637.35	198	170	22	6	0
Sault Ste. Marie	960.36	102	96	4	2	0
Sudbury	4,686.78	169	135	22	12	0
Timmins	2,081.26	162	150	9	3	0
Wawa	2,784.55	273	260	8	5	0
<b>Sub-Total</b>	<b>22,800.19</b>	<b>1,564</b>	<b>1,417</b>	<b>107</b>	<b>40</b>	<b>0</b>
<b>NORTHWEST</b>						
Dryden	2,259.81	191	174	9	8	0
Fort Frances	2,323.98	238	221	4	13	0
Kenora	3,045.91	202	157	27	18	0
Nipigon	3,350.82	252	220	16	16	0
Red Lake	1,206.25	84	80	3	1	0
Sioux Lookout	1,539.32	76	73	2	1	0
Thunder Bay	3,596.75	156	128	19	9	0
<b>Sub-Total</b>	<b>17,322.84</b>	<b>1,199</b>	<b>1,053</b>	<b>80</b>	<b>66</b>	<b>0</b>
<b>SOUTHCENTRAL</b>						
Aylmer	0.10	1	0	0	0	1
Bancroft	1,168.30	69	55	14	0	0
Guelph (Cambridge)	0.00	1	0	0	0	1
Kemptville	2.00	1	1	0	0	0
Midhurst	10.50	1	1	0	0	0
Parry Sound	937.46	90	65	18	7	0
Pembroke	126.44	36	36	0	0	0
Peterborough (Tweed)	31.40	2	0	1	1	0
<b>Sub-Total</b>	<b>2,276.20</b>	<b>201</b>	<b>158</b>	<b>33</b>	<b>8</b>	<b>2</b>
<b>TOTAL</b>	<b>42,399.23</b>	<b>2,964</b>	<b>2,628</b>	<b>220</b>	<b>114</b>	<b>2</b>

## 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.

#### 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 50 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

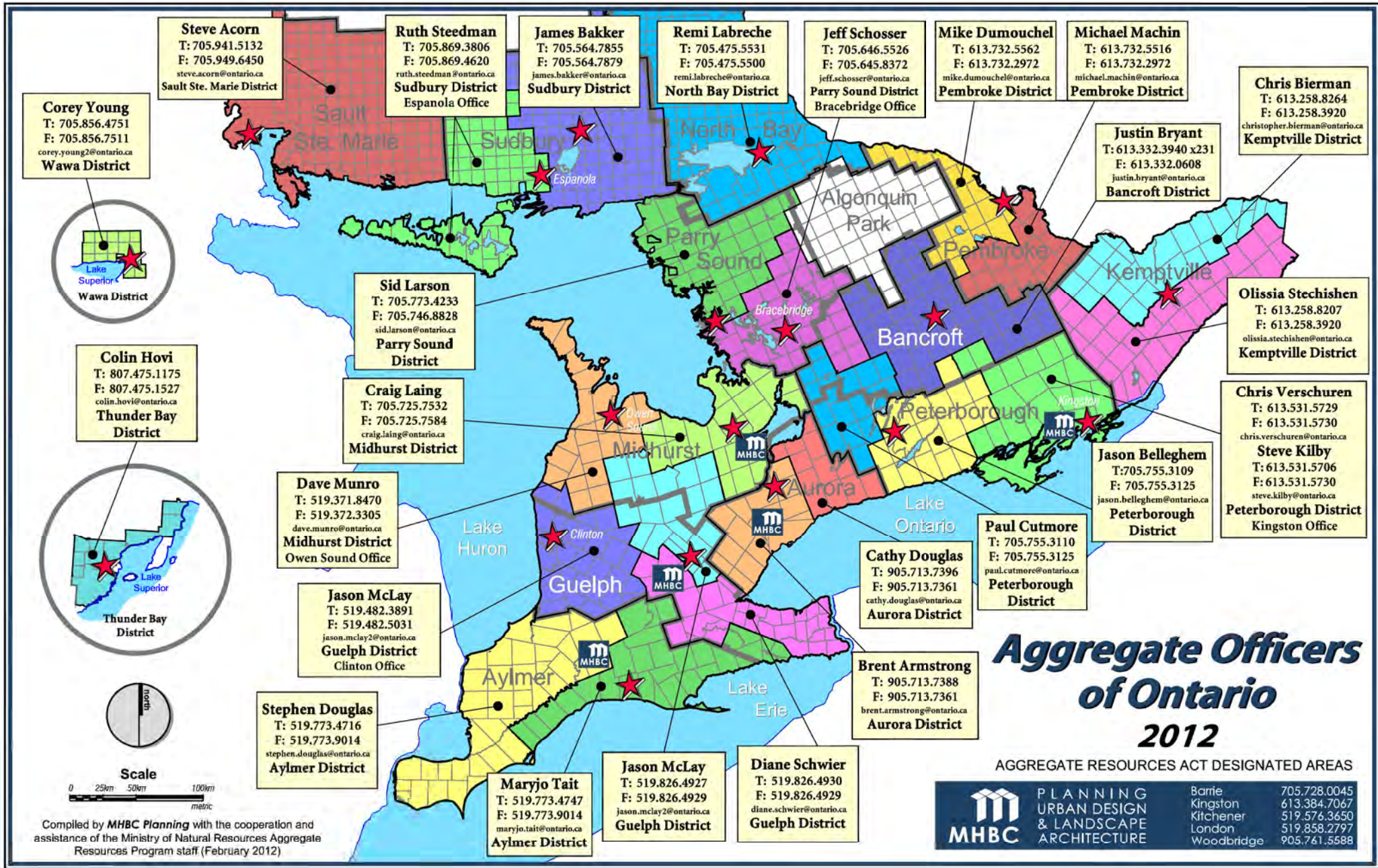
\* Now CAC - Cement Association of Canada



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		







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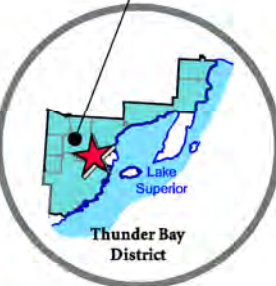
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AGGREGATE RESOURCES ACT DESIGNATED AREAS

	PLANNING	Barrie	705.728.0045
	URBAN DESIGN	Kingston	613.384.7067
	& LANDSCAPE	Kitchener	519.576.3650
	ARCHITECTURE	London	519.858.2797
		Woodbridge	905.761.5588

Compiled by **MHBC Planning** with the cooperation and assistance of the Ministry of Natural Resources Aggregate Resources Program staff (February 2012)