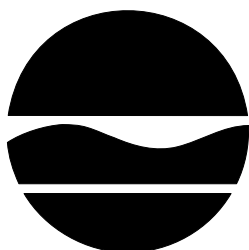


New York State



**Department of Environmental Conservation
Division of Mineral Resources**

New York State Oil, Gas and Mineral Resources 2003

Annual Report

New York State Department of Environmental Conservation

George E. Pataki, Governor

Denise M. Sheehan, Acting Commissioner

Division Mission Statement

The Division of Mineral Resources is responsible for ensuring the environmentally sound, economic development of New York's non-renewable energy and mineral resources for the benefit of current and future generations.

This report was produced by the
NYS Department of Environmental Conservation

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New York State Oil, Gas and Mineral Resources 2003

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EXECUTIVE SUMMARY

Mining occurs in every region of the State except the New York City area. Oil and gas development has historically occurred in the western half of the State, but the Finger Lakes region has recently experienced significant activity. Due to differences in legal reporting requirements, the types of statistics presented for the two programs are not identical. All information is for the year 2003.

Oil, Gas and Solution Mining

Inspections - Staff traveled 120,456 miles and performed 2,486 oil and gas inspections.

Permits and Completions

Gas:	Permits	81	Completions	31
Oil:	Permits	38	Completions	28
Other:	Permits	41	Completions	59
Total:	Permits	160	Completions	118

Wells Reported (All Types) 2003 - 13,325

Wells To Date (All Types) - 75,000, majority pre-regulation (most plugging status unknown).

Production & Market Value

Gas	36.0 bcf	Down	2%
Oil	157,313 bbl	Down	12%
Total O&G Mkt Value	\$212 million		

State Leasing - 100 leases were in effect covering 81,000 acres and 182 productive wells.

Revenues from Oil and Gas

State Revenues	\$5.6 million
Local Govt. Taxes (est.)	\$6.4 million
Landowner Royalties (est.)	\$26.6 million

Underground Natural Gas Storage - 23 facilities were 80% full at year-end.

Total Storage Capacity	207 bcf
Working Gas Capacity	105 bcf
Max. Daily Deliverability	1.927 bcf/day

Solution Mining - 5 facilities produced 2.08 billion gallons of brine equal to 2.5 million metric tons of salt.

Financial Security - In 2003 New York held \$12.6 million to guarantee well plugging and site reclamation.

Mined Land Reclamation

Inspections - Staff traveled 190,306 miles to perform 2,226 mine inspections.

Permits Issued

Total Permits	589	Fees Annual
New Permits	51	Regulatory
Renewal & Mod.	538	\$2.6 Million

Active Mines 2,317

Estimated Market Value \$978 Million

US Production Rank by Quantity

Wollastonite	1st	Talc	4th
Garnet	1st	Cement	10th
Salt	3rd	Sand & Gravel	14th

NY Rank by Value

Crushed Stone	1st	Sand & Gravel	4th
Cement	2nd	Wollastonite	5th
Salt	3rd		

Common Mine Types

Sand & Gravel	1,948
Limestone & Dolostone	99
Bluestone	51

Owner Type

Industry	1,776
Government	541

Affected Acreage 51,075

Life-of-Mine Acreage 126,674

Reclaimed Acreage, 2003 1,556

Reclaimed Since 1975 22,208

Financial Security - In 2003 New York required \$93.25 million to guarantee mine site reclamation.

DIRECTOR'S CORNER

The oil and gas industry used technology to expand its search across New York State in 2003, while the mining industry maintained its national leadership position in several important mined commodities.

Total natural gas production in New York was 36.0 billion cubic feet (bcf) in 2003 with 24.5 bcf produced from just 50 Trenton-Black River (TBR) wells. At year-end 2003 cumulative TBR gas production stood at 74.7 bcf.

TBR exploration showed significant progress during the year. Operators increased their use of three-dimensional (3D) seismic and long-reach horizontal drilling to access reserves. DEC issued 38 TBR drilling permits to nine different operators in ten different counties. Twenty-four TBR wells were drilled and four new gas fields started production. New discoveries in Broome, Yates and Steuben Counties expanded the geographic scope of the play and in Chemung County, Fortuna Energy drilled their Konstantinides 1 well to a new state record of 14,475 feet total measured depth.

Continued successful TBR exploration across a larger portion of New York's Southern Tier was no doubt responsible for the record amount collected in the March 2003 lease sale. The 26,000 acres of State land drew \$4.5 million in successful bonus bids for 21 leases. Since the beginning of deep TBR production in 1996, approximately 40,000 acres of State land have been leased generating \$9.5 million in revenue with \$7.6 million of that in bonus bids alone.

At the opposite end of the regulatory spectrum, efforts continued in 2003 to address the legacy issue of abandoned unplugged wells in New York State. The Department plugged more wells in 2003 than any other entity in the State. At the Moore Lease in the Town of Bolivar in Allegany County, 43 wells were plugged under contract at a cost of only \$100,000 secured through litigation from the responsible party's

estate. Four abandoned wells on New York State lands were also plugged in 2003.

New York's mining industry maintained its national leadership position in mined materials in 2003 and rose to first in garnet production. The State also ranks in the top five nationally for production of wollastonite, talc and salt. The United States Geologic Survey estimated the value of New York's non-fuel mineral production at \$978 million. In terms of market value, crushed stone was New York's leading non-fuel mineral.

In 2003 there were 2,317 active DEC-regulated mines located in 56 of New York's 62 counties. Although the total number of active mines decreased by 4% in 2003, mine sizes are trending larger. Since 2000 the number of mines larger than 20 acres has increased by 10% while the number of mines 5 acres or less has decreased by almost 14%.

Mining staff approved final reclamation of over 958 acres in 2003 and an additional 598 acres reclaimed concurrently at mines that are still operating. Over 22,000 acres of mined lands have been reclaimed since 1975.

In 2003 the Department and the New York State Geologic Survey began work to inventory abandoned underground mines with a \$20,000 grant from the U.S. Mine Safety and Health Administration (MSHA). Many mines in New York that operated in the 19th and 20th centuries were abandoned before any permitting or regulatory program existed. Over 150 entrances to abandoned underground mines have been located throughout New York. This work will help protect public safety by identifying possible hazard areas where development should be avoided.

Be sure to see the new sections of this annual report on geothermal and stratigraphic wells and the significant new material on the Mined Land Reclamation Program.

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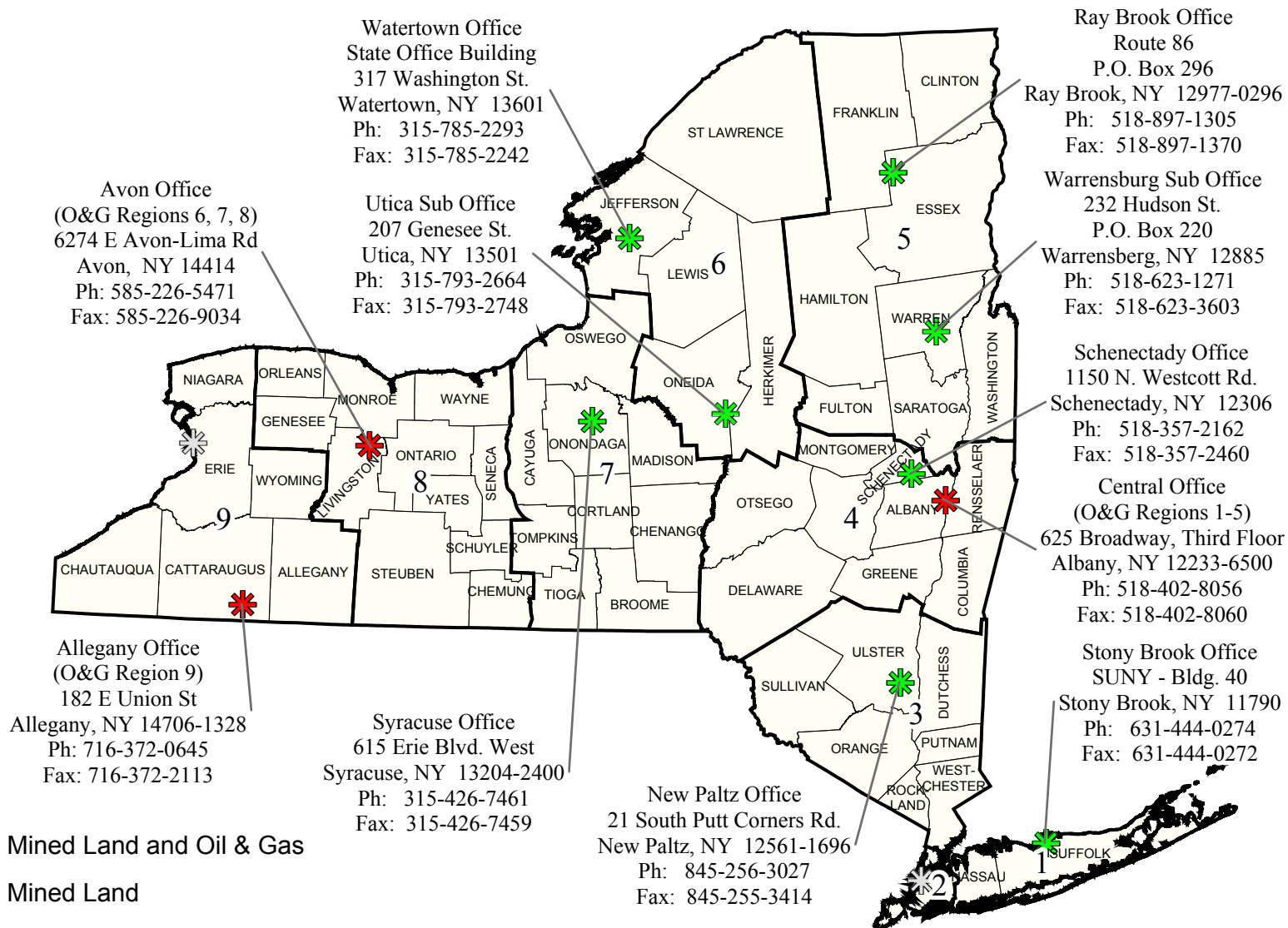
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Map 1 - Division of Mineral Resources Regional Service Areas



OIL, GAS AND SOLUTION MINING PROGRAM

Once again, the Trenton-Black River deep natural gas play continues to be the driving force behind New York's exploration, production and leasing activity. On March 21, 2003, the Department held an oil and gas lease sale of 21 tracts covering 26,500 acres of State Reforestation Areas and Wildlife Management Areas in Steuben and Schuyler Counties. The State collected over \$4.5 million dollars in successful high bids. Several bids exceeded the State's previous record of \$312 per acre; the new record is now \$587 per acre for Steuben SRA #14.

Industry interest remained strong as shown by the 20,000 acres of land that industry nominated for a proposed 2004 State lease sale. DEC's leasing process includes an extensive evaluation of nominated acreage before a decision is made to commit to a lease sale.

Four new gas fields commenced production in 2003 and further expanded the productive area of the Trenton-Black River play: Ballyhack Creek in Broome County, Guyanoga Valley in Yates County and Caton Field and Whiskey Creek Field, both in Steuben County. This new production expanded the geographical boundaries of the play 10 miles to the south, 40 miles to the east and 4 miles to the north of the previous year's Trenton-Black River production.

In 2003, 24 Trenton-Black River wells were drilled in nine counties. The Lovell and Henkle wells in Quackenbush Field (Chemung and Steuben counties) were the State's most prolific gas wells with approximately 3.5 bcf (billion cubic feet) of gas produced per well. Eight individual gas wells produced in excess of 1 bcf of gas in 2003. A total of 24.5 bcf was produced from only 50* Trenton-Black River wells. Additional gas discoveries made in 2003 await pipeline construction to bring the wells online. Based upon the Trenton-Black River drilling results to date, New York's future gas production is headed for an all time record high.

* Total includes all Trenton-Black River wells drilled since 1985.

New York State plugged more wells in 2003 than any individual operator. Using funds from a legal settlement, DEC plugged 43 wells on the Moore Lease in the Town of Bolivar, Allegany County. Leaking and abandoned oil wells from the State's priority plugging list were plugged via state contract by D&D Inc. Several of these wells were actively leaking oil to a stream or onto the ground. New York also plugged four other wells on State lands bringing the grand total of State-plugged wells to 49. As additional abandoned wells are discovered, they are added to DEC's list for future plugging.

Drilling and permit activity in the eastern part of the State grew dramatically in 2003. For the first and perhaps only time, New York County tied with Steuben County for the lead in number of drilling permits issued, at 26 apiece. Many building projects are utilizing geothermal wells to assist in the heating/cooling of new and existing construction. A number of stratigraphic wells were drilled in New York County to gather information which will provide data to assist engineering firms in the design and location of the city's water tunnels. Stratigraphic and geothermal wells were drilled in a variety of interesting locations such as the Bronx Zoo, Harlem, and Long Island.



Seismic trucks operating in New York.

DRILLING PERMITS AND WELL COMPLETIONS

Drilling Permits

Division staff issued 160 drilling permits in 2003: 81 gas, 38 oil, 12 brine, 9 geothermal and 20 stratigraphic wells (see Table 5 on page 19). Permits were issued for 21 counties; the top three counties for permits were New York and Steuben, tied at 26, with Allegany County in third place at 15 permits. Interest in the Ordovician age carbonates of central New York remained strong during 2003 with 38 permits issued for the Trenton Black-River formation.

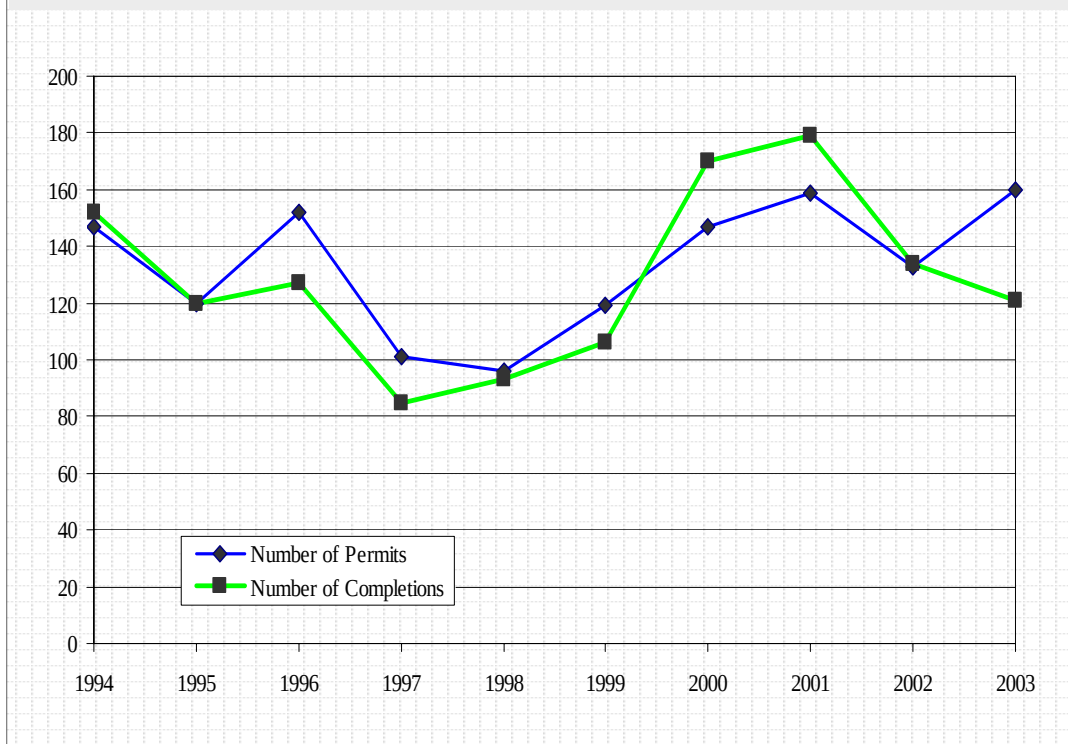
A complete list of drilling permits issued in 2003 can be found on page 69. A ten-year comparison of drilling permits issued versus completions is shown in Chart 1 below.

Well Completions

There were 121 gas, oil, gas storage, brine, stratigraphic and geothermal wells completed during 2003. Completed wells are listed in the table starting on page 75. Well type codes are listed on page 65.

In 2003 wells were completed in 21 of the State's 62 counties: Allegany, Broome, Cattaraugus, Chautauqua, Chemung, Chenango, Cortland, Erie, Genesee, Madison, New York, Ontario, Orange, Schuyler, Seneca, Steuben, Tioga, Tompkins, Wayne, Wyoming and Yates. The top three counties for completions were Steuben (18), New York (16) and Cattaraugus (11).

Chart 1 - Drilling Permits and Completions, 1994 - 2003



OIL & GAS WILDCATS AND FIELD EXTENSIONS

Wildcats

In 2003, 35 wildcats were drilled in 12 counties from Broome County on the east to Erie County on the west. Twenty-three of the wildcats targeted the Trenton-Black River formations which contributed over 68% of New York's gas production. In 2003 the deepest wildcat, Curren #1, was drilled by Columbia Natural Resources in Chemung County to a true vertical depth of 11,329 feet.

Field Extensions

In 2003, one field extension was drilled targeting the Trenton-Black River. The Andrews #1 was drilled in Steuben County's Quackenbush Hill field, which is the second most productive field in the State.

Trends

The number of wildcats fell 12.5% from 40 in 2002 to 35 in 2003. The number of field extensions dropped from five to four.

Wildcat wells were drilled in 12 counties in 2003, compared to 14 counties in 2002. Activity expanded northward; several Wayne County wells were drilled over 33 miles northeast of the nearest Trenton-Black River production.

Codes for Tables 1 & 2 Pages 12-14

GW Gas Wildcat (proposed)
GE Gas Extension (proposed)

Chart 2 - Source Formation for NY Natural Gas, 1998-2003

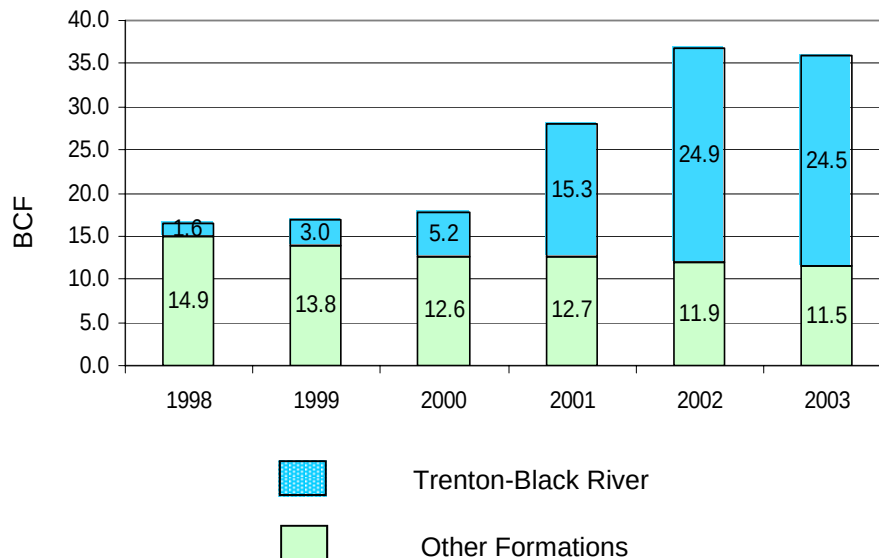


Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
Allegany								
Allen	Columbia Natural Resources	31003235310000	Gallmann 1	3,445	12/8/03	GW	Not Applicable	Oriskany
Broome								
Kirkwood	Fortuna Energy, Inc.	31007230560000	Butkowsky 1	10,105	10/9/03	GW	Ballyhack	Black River
Kirkwood	Fortuna Energy, Inc.	31007230560100	Butkowsky 1-A	10,104	10/18/03	GW	Ballyhack	Black River
Kirkwood	Belden & Blake Corp.	31007230830000	Gabriel 1	4,899	12/16/03	GW	Not Applicable	Heldenberg
Chemung								
Big Flats	Fortuna Energy, Inc.	31015230280000	Hepfner 1	9,853	11/2/03	GW	Quackenbush Hill	Black River
Southport	Fortuna Energy, Inc.	31015230760000	Curren 1	11,329	12/2/03	GW	Seeley Creek	Black River
Van Etten	Fortuna Energy, Inc.	31015230230000	Konstantinides 1	9,981	7/28/03	GW	Langdon Hill	Black River
Chenango								
Preston	EOG Resources, Inc	31017230570000	Oxford 2	2,620	9/22/03	GW	Not Applicable	Oriskany
Cortland								
Taylor	Belden & Blake Corp.	31023230510000	Frink 1	2,238	9/18/03	GW	Not Applicable	Oriskany
Virgil	Phillips Production Co.	31023230350000	Sega 1	7,823	8/13/03	GW	Not Applicable	Black River
Virgil	Columbia Natural Resources	31023230350100	Sega 1-A	7,848	8/30/03	GW	Not Applicable	Black River
Erie								
Collins	Seneca Resources Corp.	31029234890000	McCarthy 37546	1,500	7/15/03	GW	Not Applicable	Upper Dev. Sh.
Sardinia	Ardent Resources, Inc.	31029235330000	Bockhahn Wm Unit 1	5,971	11/15/03	GW	Bockhahn	Theresa
Ontario								
Gorham	Fortuna Energy, Inc.	31069229850200	Bay 1-B	5,360	8/15/03	GW	West River	Black River

Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003, Continued

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
Schuyler								
Dix	Fortuna Energy, Inc.	31097230080000	Ganung 2	13,509	5/29/03	GW	Moreland	Black River
Dix	EOG Resources, Inc	31097230530000	WGI 1	9,103	10/19/03	GW	Not Applicable	Black River
Dix	EOG Resources, Inc	31097230530100	WGI 1-A	9,150	11/3/03	GW	Not Applicable	Black River
Reading	EOG Resources, Inc	31097230040000	Fierro 1	7,398	3/11/03	GW	Not Applicable	Black River
Seneca								
Tyre	Great Lakes Energy Partners	31099230410000	Smith-Griggs 2	1,660	10/21/03	GW	Not Applicable	Queenston
Tyre	Great Lakes Energy Partners	31099230420000	Smith-Griggs 1	1,663	10/17/03	GW	Not Applicable	Queenston
Tyre	Great Lakes Energy Partners	31099230430000	Smith-Griggs 4	3,256	12/12/03	GW	Not Applicable	Trenton
Steuben								
Bath	Kelly Oil and Gas, Inc.	31101230290000	Scudder 1	2,926	5/18/03	GW	Not Applicable	Oriskany
Caton	Fortuna Energy, Inc.	31101229630200	Maxwell 1-B	11,280	5/2/03	GW	Caton	Black River
Caton	Fortuna Energy, Inc.	31101230400000	Harndon 1	11,012	8/8/03	GW	Whiskey Creek	Black River
Howard	Columbia Natural Resources	31101230390000	Miller 1	8,600	9/10/03	GW	Not Applicable	Black River
Troupsburg	Victory Energy Corp.	31101230160000	Fishel 1	5,070	4/15/03	GW	Not Applicable	Onondaga
Troupsburg	Victory Energy Corp.	31101230790000	Henninger 1	4,728	11/18/03	GW	Not Applicable	Oriskany
Troupsburg	Victory Energy Corp.	31101230800000	Snyder 1	5,197	11/15/03	GW	Not Applicable	Oriskany
Tompkins								
Enfield	Columbia Natural Resources	31109229980200	Stevenson 1-B	7,987	1/10/03	GW	Not Applicable	Black River
Newfield	Phillips Production Co.	31109229970100	Albanese 1-A	9,048	2/26/03	GW	Not Applicable	Black River
Newfield	Columbia Natural Resources	31109229970200	Albanese 1-B	9,078	3/20/03	GW	Not Applicable	Black River

Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003, Continued

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
Wayne								
Butler	Lenape Resources, Inc.	31117230140000	Everhart 1	2,408	2/11/03	GW	Not Applicable	Trenton
Butler	Lenape Resources, Inc.	31117230150000	High 1	3,960	1/25/03	GW	Not Applicable	Trenton
Butler	Lenape Resources, Inc.	31117230180000	K. High 1	3,700	3/22/03	GW	Not Applicable	Trenton
Galen	Columbia Natural Resources	31117230370000	Harper 1	3,150	12/11/03	GW	Pangburn	Black River

Table 2 - Field Extensions Drilled to True Vertical Depth (TVD) in 2003

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
Madison								
Lebanon	Nornew, Inc.	31053230520000	Swenson-Manning 1	3,279	8/20/03	GE	Not Applicable	Oneida
Lebanon	Nornew, Inc.	31053230600000	Symonds-Joseph 1	3,263	9/11/03	GE	Not Applicable	Oneida
Steuben								
Corning City	Fortuna Energy, Inc.	31101230380000	Andrews 1	10,117	11/16/03	GE	Quackenbush Hill	Black River
Wayne								
Galen	Columbia Natural Resources	31117230870000	Hughes 2	3,736	11/25/03	GE	Clyde	Queenston

PRODUCTION OF OIL & GAS

New York's reported natural gas production for 2003 was 36.0 bcf, a slight drop of 2% from 2002. Over 24.5 bcf of gas came from just 50 producing Trenton-Black River wells. One well produced over 3.5 bcf.

Chemung County led in natural gas production for the second year, followed by Steuben County. Nearly all of Chemung County's production came from just 17 Trenton-Black River wells. Former long-time production leader Chautauqua County remained at third.

In 2003 New York's production of oil decreased roughly 12% percent to 157,313 barrels (bbl) from 179,266 in the prior year.

Table 3 lists the top ten gas producing counties, while Table 4 gives the top ten gas and oil producing companies, respectively. Map 2 on page 17 shows natural gas production by town. Chart 3 on page 16 shows the State's total oil and gas production for the past ten years. Well counts and gas production volumes are based on re-

ports submitted by well owners. For an explanation of the units of volume measurement, see the box on page 18.

Table 3

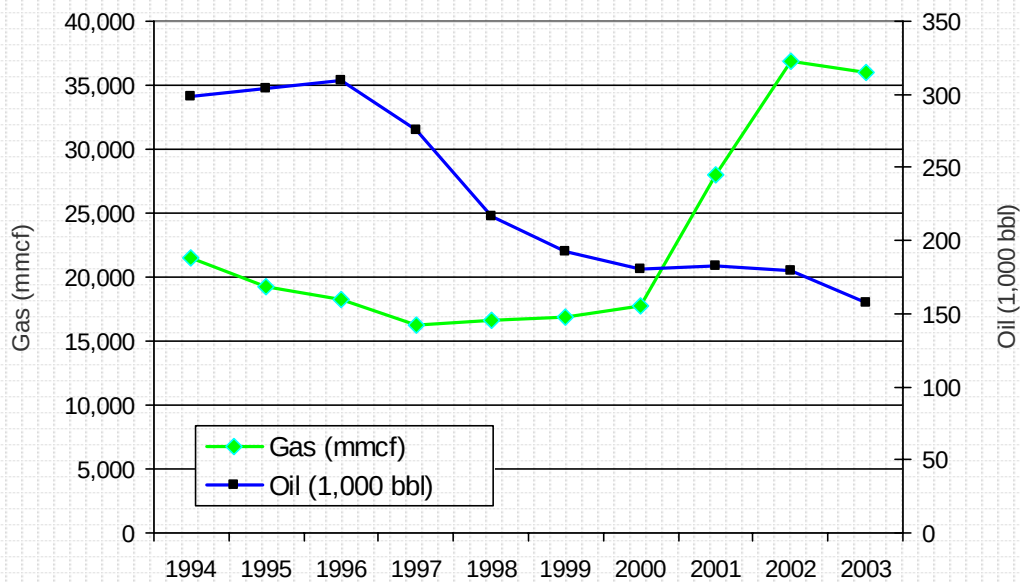
Top Ten Gas Producing Counties, 2003

County	Gas (mcf)	Active Gas Wells	Average mcf/Well
Chemung	13,245,420	23	575,888
Steuben	10,090,405	47	214,689
Chautauqua	5,670,734	3,049	1,860
Erie	1,144,382	884	1,295
Cattaraugus	1,051,107	421	2,497
Schuyler	985,175	2	492,588
Cayuga	855,067	306	2,794
Genesee	700,124	497	1,409
Seneca	606,464	154	3,938
Allegany	544,588	58	9,389

Table 4

Top Ten Gas and Oil Producing Companies, 2003

Company	Gas (mcf)	Company	Oil (bbl)
Fortuna Energy, Inc.	22,126,992	Richardson Petroleum Corp.	23,991
Columbia Natural Resources	3,218,738	McCracken, Carl A. III	11,122
Great Lakes Energy Partners	2,783,259	English, Lawrence E. Jr.	10,841
Nornew, Inc.	918,877	East Resources, Inc.	10,592
Seneca Resources Corp.	659,128	R & C Oil Co.	9,614
Kastle Resources Enterprises	566,032	Synergy Oil and Gas, Inc.	6,905
United States Gypsum Co.	545,986	REI-NY, Inc.	6,136
Stedman Energy, Inc.	519,570	Woods Oil Company, Inc.	5,955
National Fuel Gas Supply	419,152	Otis Eastern Services, Inc.	4,965
Lenape Resources, Inc.	405,207	Plants and Goodwin, Inc.	3,882

Chart 3 - New York State Oil and Gas Production, 1994 - 2003

Natural Gas

Natural gas is an important energy source for New York homeowners. Based on 2001 data, 5.4 million households use natural gas for home heat, cooking, heating water or other uses. For gas-fired heat, the average usage in New York is 69 mcf per year¹. The 36.0 bcf of natural gas produced in New York in 2003 was enough to heat roughly 521,000 homes.

Crude Oil

The first commercial oil well was drilled in New York in 1865. New York's crude oil is particularly high in paraffin, and is a preferred lubricant feedstock

Landowner Wells

A large number of New York's gas well owners have just one or two wells. These wells, known as "landowner wells", are usually no longer productive enough for commercial purposes, but may produce enough gas to heat a house. The Division has prepared a brochure entitled "Do You Own or Intend to Buy a Natural Gas or Oil Well: Tips for Landowners". The brochure includes information on:

- how to identify an old well on land you own or might buy,
- your legal responsibilities when you own an unplugged well, and
- safety tips concerning gas hookups and signs of gas contamination in household water supplies.

For more information visit our website at www.dec.state.ny.us/website/dmn.

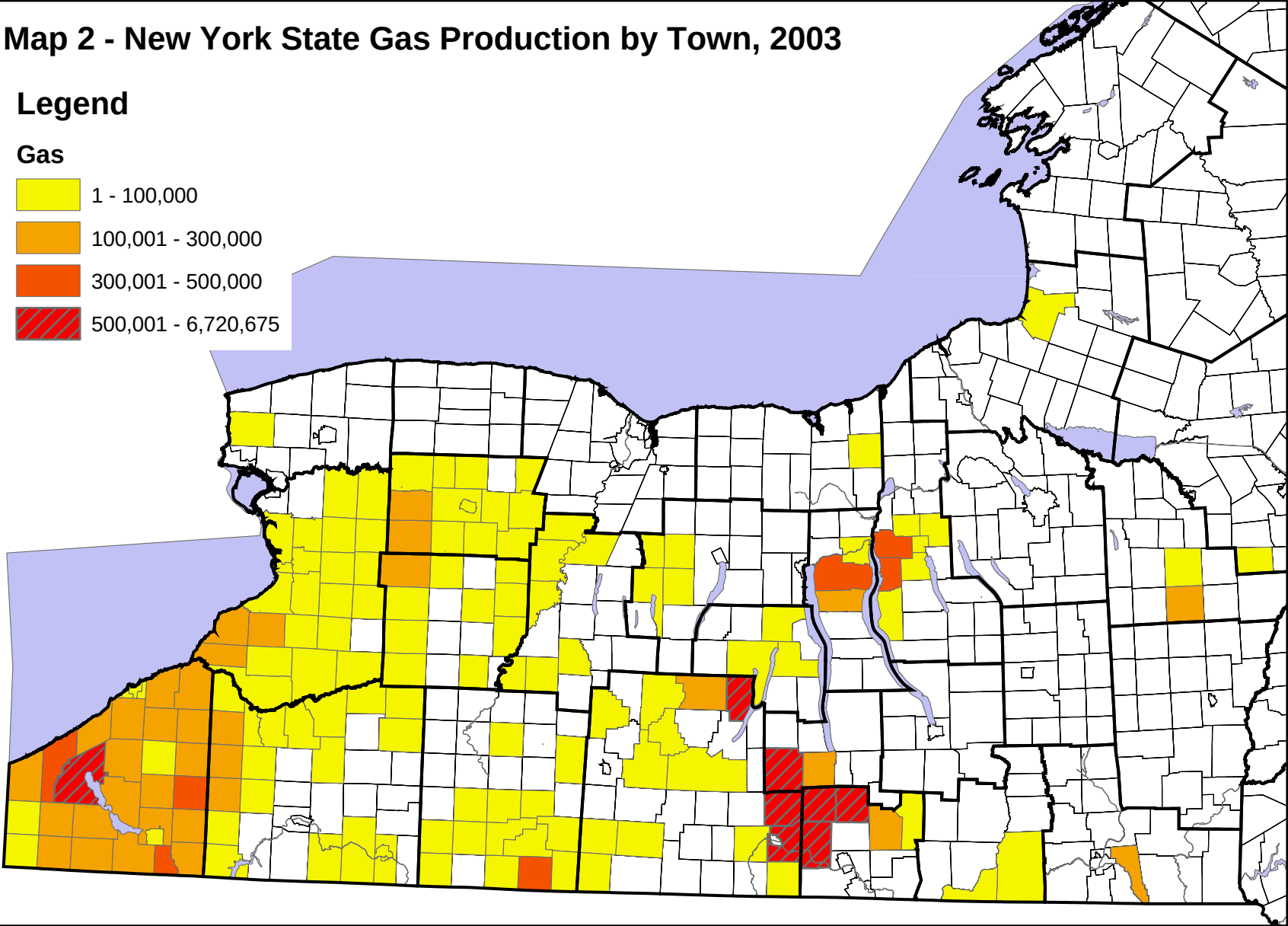
¹ US DOE/EIA 2001 Residential Energy Consumption Survey

Map 2 - New York State Gas Production by Town, 2003

Legend

Gas

- 1 - 100,000
- 100,001 - 300,000
- 300,001 - 500,000
- 500,001 - 6,720,675



MARKET VALUE AND ECONOMIC BENEFITS

Market Value

The total market value of New York's oil and gas production increased from \$116 million in 2002 to over \$212 million in 2003. Much of this increase was due to the near doubling of the market value of the State's gas in spite of a slight decrease in the gas production level to 36.0 bcf. The market value of the reported 157,313 barrels of oil produced was roughly \$4.6 million, up 2% from 2002.

State Lease Oil and Gas Prices

The average wellhead natural gas price of \$5.78 per mcf in 2003 was up over 90% from the \$3.03 price of 2002. The average price of oil in 2003 of \$29.47 per bbl was up over 18% from \$24.95 in 2002. These average prices were obtained from royalty payments made to the State for leases on State lands.

Royalties to Landowners

The majority of landowners with producing oil and gas leases receive a royalty. Based on an average royalty of one-eighth of the production value, landowners in New York received roughly \$26.6 million in royalties from 2003 oil and gas production.

Tax Revenues to Local Governments

Communities in oil and gas producing areas also benefit from the industry's activity. DEC estimates that real property taxes on 2003 natural gas and oil production were roughly \$6.4 million (gas \$6.25 million and oil \$139,000). To dampen the impact of fluctuating oil and gas prices, local governments assess their taxes each year based on a unit of production value determined by the NY State Division of Equalization and Assessment using a five-year average.

Volume Measurements Used in Report

Throughout this report, you'll find the following units of volume measurement used for production.

Natural Gas

mcf	thousand cubic feet
mmcf	million cubic feet
bcf	billion cubic feet

Crude Oil

bbl	barrel of oil (42 gallons)
-----	----------------------------

PERMIT FEES AND FINES

The Division of Mineral Resources collects revenues from oil and gas activity under the Oil, Gas and Solution Mining Law. In 2003 total oil and gas revenues were \$5,673,243. Fines and penalties were \$141,551, permit depth fees were \$189,965, oil and gas account fees were \$14,800, storage permit fees were \$0 and the remaining leasing revenues of \$5,326,927 are discussed in further detail on page 20.

Each drilling permit application must include a depth-based fee of \$190 for the first 500 feet plus \$190 for each additional 500 feet. In addition, each application must include a \$100 fee which is deposited in the Oil and Gas Account to plug abandoned wells.

Storage facility fees are \$10,000 for a new permit and \$5,000 for a modification permit.

Table 5 - Permitted Well Types, 2003

County	Gas Well	Oil Well	Storage Well	Brine Well	Strati-graphic	Geo-thermal	Total
Allegany	1	14					15
Broome	6						6
Cattaraugus	2	9					11
Chautauqua	5						5
Chemung	5						5
Chenango	2						2
Cortland	3						3
Delaware	1						1
Erie	2						2
Genesee	4						4
Madison	7						7
New York					19	7	26
Ontario	1						1
Oswego	3						3
Otsego					1		1
Schuyler	8			3			11
Seneca	12						12
Steuben	11	15					26
Tompkins	1					2	3
Wayne	7						7
Wyoming				9			9
Total	81	38	0	12	20	9	160

STATE LAND LEASING

At the end of 2003 the Division managed 100 leases covering approximately 81,000 acres of State land. This significant increase of 22,000 acres from the previous year resulted from the most successful competitive oil and gas lease sale New York State ever held.

At year-end 2003 the State was earning royalties from 99 productive oil and gas wells physically located on State lands and another 83 producing wells on adjacent and/or unitized lands. The wells were held under 43 leases.

New York collected royalties from these 182 wells which produced 4.7 bcf of natural gas and 295 barrels of oil. The average prices paid were \$5.78 per mcf for gas and \$29.47 per barrel of oil.

In 2003 the State received the record amount of \$5,326,927 in leasing revenues:

- **Lease Sale Revenue** - The State collected \$4.5 million in bonus bids for 26,000 acres in Steuben and Schuyler Counties. Approximately \$3.93 million was deposited in the State's General Fund. The remaining \$644,000 was credited to the Conservation Fund for leasing the Erwin Wildlife Management Area.
- **Royalties** - This category of revenue rose 531% from 2002 due largely to the escrow release of royalties from Fortuna's Trenton-Black River wells. Statewide the Division collected \$609,821 in royalties, but roughly 47% of that total came from just five Trenton-Black River wells.
- **Delay Rentals** - Operators submitted a total of \$16,486 in delay rentals, down 79% from 2002. This was due to expiration of two leases and termination of four others.
- **Storage Leases** - Fourteen storage leases added \$117,381, up 59% from 2002's total of \$73,617.

Table 6 - State Land Acreage Under Lease By County, 2003

County	Leased Acreage
Allegany	11,627
Broome	315
Cattaraugus	10,042
Cayuga	62
Chautauqua	15,913
Chemung	609
Erie	264
Madison	53
Ontario	55
Schuyler	14,427
Seneca	17
Steuben	27,782

Table 7 - Total Leasing Revenues, 1996 - 2003

1996	\$143,592
1997	\$168,029
1998	\$279,523
1999	\$3,206,406
2000	\$181,876
2001	\$379,845
2002	\$249,685
2003	\$5,326,927

2003 Lease Sale

In New York's March 2003 lease sale (see Map 3 next page), the State collected a record-setting total of \$4.5 million in bonus bid payments. This is more than one-third of the total revenue collected by the Division over the entire history of the State land leasing program. Another notable event was the availability of free copies of the bid packages on the Division's website. CD-ROMs and the traditional paper copies of bid packages were also available, but 99% of the potential bidders took advantage of their new ability to download the information.

Industry interest in the sale area was strongly influenced by the recent Trenton-Black River activity. These wells have production rates and total reserves one hundred times higher than the typical Medina gas well, the former mainstay of New York's gas industry.

Prior to the lease sale DEC held open-house meetings in Corning. The Division presented information on leasing policies for State lands and the regulations and other requirements that apply to well drilling, production and abandonment. Attendees had ample opportunity to discuss the lease sale process with a DEC representative and to have their questions answered.

The public input received at the meetings and through other channels resulted in a change in lease terms for Schuyler State Reforestation Area # 3. The lease was offered on a no-surface entry basis to avoid impacting a unique bog in the area.

DEC awarded 21 leases to four companies, with Fortuna Energy submitting the high bid on 16 of the leases. The company's bid of \$587 per acre for Steuben SRA #14 (Erwin Hollow State Forest) set a new record for a State lease sale.

Table 8 - Lease Type by County, 2003

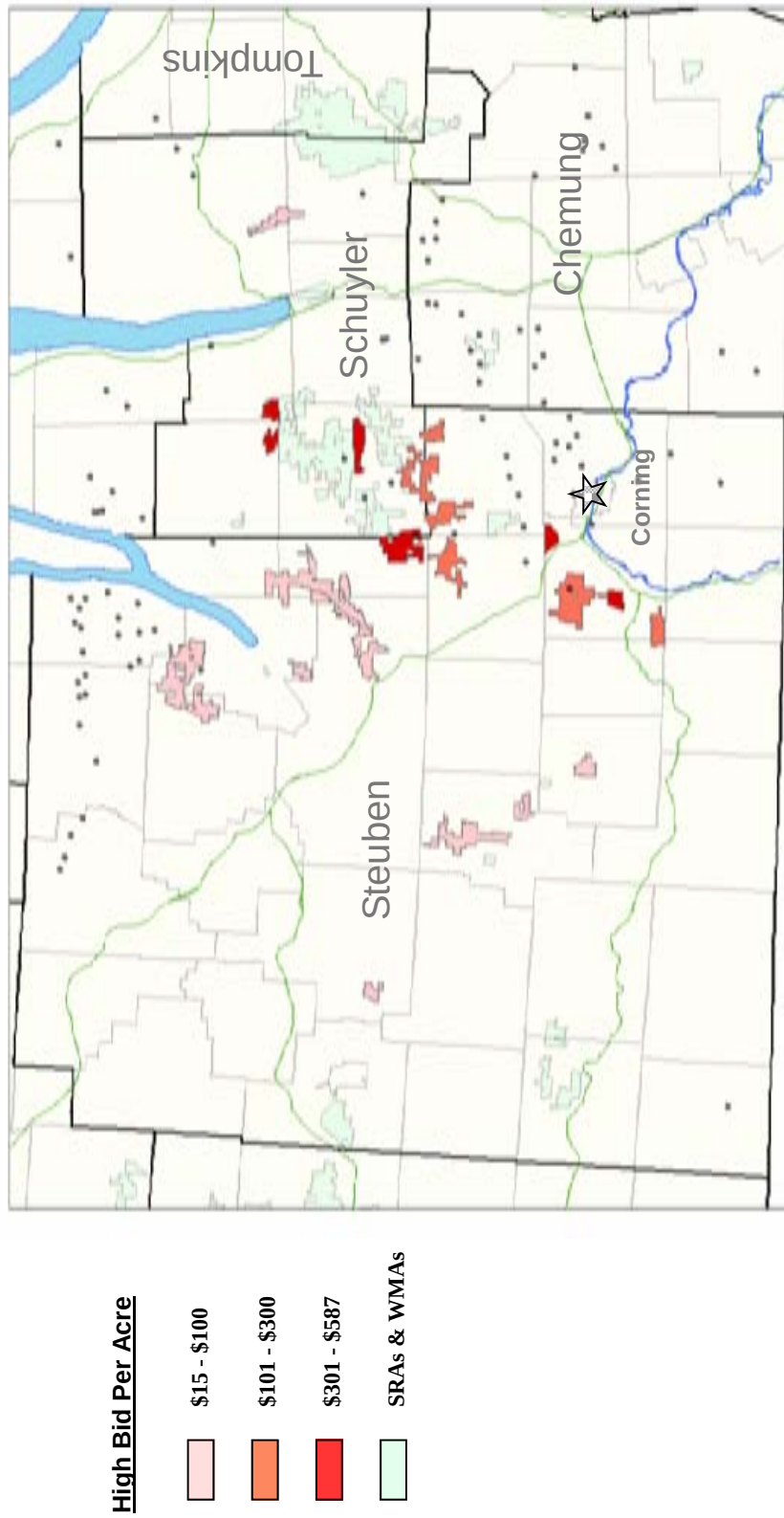
County	Acres				Leases			
	<u>Rental</u> ¹	<u>Royalty</u> ²	<u>Storage</u> ³	<u>Total</u>	<u>Rental</u> ¹	<u>Royalty</u> ²	<u>Storage</u> ³	<u>Total</u>
Allegany	11,502	126		11,627	9	1		10
Broome	315			315	1			1
Cattaraugus		62	9,981	10,042		2	8	10
Cayuga		62		62		4		4
Chautauqua		15,913		15,913		29		29
Chemung	121	488		609	1	2		3
Erie		10	255	264		2	2	4
Madison	53			53	1			1
Ontario			55	55			1	1
Schuyler	14,426		1	14,427	9		1	10
Seneca		17		17		1		1
Steuben	25,937	225	1,620	27,782	22	2	2	26
Total	52,352	16,902	11,911	81,165	43	43	14	100

1 Rental status means no wells drilled yet under lease, so delay rental paid on per acre basis.

2 Royalty status means there are producing wells on the lease and the State is receiving royalties.

3 Storage means it is a lease for an underground storage facility.

Map 3 - 2003 State Land Lease Sale High Bids



COMPUTERIZED SERVICES

Web Site Statistics

As one of the Division's primary tools for distributing information, the website includes extensive information on both the Oil and Gas and the Mined Land Reclamation Programs. Public use of the Division's website increased dramatically from the previous year. The number of page views in 2003 rose by over 100% and the number of unique visitors rose by 50% compared to 2002. In addition, the average number of user sessions rose 30% to 362 sessions per day in 2003. The length of the average user session increased 41% from 16 minutes in 2002 to 22.5 minutes in 2003.



The Division has further improvements planned for the website to increase its usefulness to the public, industry and local governments.

Electronic Reporting and Annual Reports

Approximately 14,500 wells need to be reported annually and the reports are due on March 31 for the preceding calendar year. The steadily increasing menu of electronic reporting options continues to make the process easier. In January the Division mailed 971 well owners a pre-printed form showing all of their registered wells. For the past four years, well owners have also been able to file their reports using electronic options such as database and spreadsheet files. In 2003 well owners submitted electronic reports covering 4,881 wells or 31% of the State's reported wells. However, those filings represented 91% of the State's total gas production. Reports on an additional 1,284 storage and solution salt mining wells were filed electronically. Electronic filing is easier for many well

owners and also reduces the chance of data entry errors. The Division intends to expand the electronic reporting system to make this option more attractive to owners with a small number of wells.

2003 Highlights

In addition to steady improvements in the Division's website and electronic reporting efforts, the Division's computer staff made significant improvements to the leasing process. As mentioned on page 21, costly and cumbersome paper bid packages were replaced by electronic copies that could be downloaded for free.

In 2003 the Division completed another important computerization project that had long been stymied by security requirements imposed on interagency data sharing. In late 2003 the Division started providing oil and gas data to both the New York State Geological Survey (NYSGS) and the Office of Real Property Services (ORPS) in formats tailored to their needs. Previously only selected staff at the two agencies had access to the Division's database.

ORPS's use of the new improved electronic data package has eliminated the need to transfer paper records between agencies. It has also given OPRs staff more timely access to the data they need to manage local government taxation of oil and gas production.

NYSGS's Reservoir Characterization Group used the new tailored data packages to develop an on-line mapping program that combines our data on mines and oil and gas wells with other pertinent geologic information (<http://www.nysm.nysed.gov/esogis/>). The new data sharing arrangement has already proven its value to the oil and gas exploration community.

<http://www.dec.state.ny.us/website/dmn>

WELL PLUGGING, SITE RECLAMATION AND SITE INSPECTIONS



Rig crew plugging and abandoning a well.

Wells Plugged, 2003

142

- 91 Oil Wells
- 36 Gas Wells
- 15 Other Wells

Belligerent rooster attacks State truck on well access road during inspection.



Well Site Inspections, 2003
(All Phases of Activity)

2,486

Staff Miles Traveled, 2003

120,456



Reclaimed access road to a Cabot Oil and Gas well site in Broome County. All access roads must be reclaimed unless the landowner wants the road to remain for their future use.

Financial Security

\$12.6 Million

In 2003 the Division held \$12,616,805 to guarantee that wells are properly plugged and abandoned at the end of their productive life. Each well must be plugged with cement, equipment removed, land recontoured and the wellsite and access road revegetated.

ABANDONED WELLS

The Division estimates that over 75,000 oil and gas wells have been drilled in New York State since the 1820s. Most of the wells were drilled before New York established a regulatory program and many were never properly plugged and abandoned.

Abandoned wells can leak oil, gas and/or brine. These substances can contaminate ground and surface water, kill vegetation and cause safety and health problems. Underground leaks may go undetected for years before they are noticed.

Historically, abandoned wells have been discovered at playgrounds and parking lots, inside buildings, in wetlands, underwater in creeks and ponds, in wooded areas and in residential yards. Every year DEC staff discover additional abandoned wells while investigating complaints or conducting scheduled inspections. Many abandoned well issues take several years to resolve as the Division pursues legal action against the responsible parties.

2003 Abandoned Well Highlights

During 2003 Division staff coordinated with the U.S. Environmental Protection Agency on the extensive preliminary work required for a large abandoned well plugging project in the Town of West Union, Steuben County. The wells, owned by Allegro Oil and Gas, had been the subject of numerous DEC enforcement actions since the mid-1980s. The lease contained over 200 unplugged abandoned wells in a variety of settings ranging from woodland to residential.

Using \$100,000 in fees from a legal settlement, the Division awarded a contract to plug 43 of the wells on the lease. For the remaining 182 unplugged wells on the lease, the Division continues to litigate the issue of plugging liability with successors in interest for the lease.

During 2003 four gas wells were discovered on State Lands in Steuben Reforestation Area #10

and Steuben-Schuyler Reforestation Area #1. The original owners of these wells could not be located and the Division of Mineral Resources arranged for the wells to be plugged by the Division of Operations. This work was paid for by funds set aside to remediate violations found during environmental audits of State lands. Currently all known abandoned wells on DEC lands are plugged.



Moore Lease abandoned well near creek leaking crude oil to water.



Old abandoned oil well under water in Town of Bolivar, Allegany County.



The 200⁺ abandoned wells on the Moore Producing Company Lease occur in a variety of settings including homeowners' front yards. Such oil wells are potential conduits for contamination of drinking water supplies. DEC plugged the wells pictured above in 2003.

2003 Landowner Abandoned Well Problems

In 2003 a landowner in Allegany County reported that a leaking well was causing an oil scum on their pond. The party responsible for the wells is an inactive company that has been the subject of pending DEC legal action for over 12 years. This is just one of the company's hundreds of long-abandoned wells.



Oil scum on homeowner's pond.

Another landowner in Cattaraugus County complained that a small oil leak in their yard was keeping away potential buyers for their house.

An old map shows the well to be part of a long-abandoned lease, but the Department does not know who the responsible party is. In both these cases, the wells were added to the Department's 600-plus problem wells on the Priority Plugging List to be plugged as funds become available.

Also in 2003, four 90-year old abandoned wells in Cattaraugus County posed problems for a planned housing development on 50 acres in the Town of Allegany. The developer obtained plugging permits from the Department and hired a contractor to do the work.



Oil spill on homeowner's lawn.

UNDERGROUND GAS STORAGE

Twenty-three natural gas and three liquefied petroleum gas underground storage facilities operated in ten counties in the western and central parts of New York during 2003.

Natural Gas Storage

Table 9 summarizes the 2003 year-end status of underground natural gas storage in New York and Table 10 details activity during the year at each storage field. Storage operators injected 79.8 billion cubic feet of natural gas into storage during 2003 and delivered 73.4 billion cubic feet. New York's storage reservoirs were 80% full at the end of the reporting year and year-end working gas in storage represented 62% of working capacity. Underground storage reservoirs in New York State held a total of over 182.4 billion cubic feet of natural gas during 2003. More than 900 storage field wells were used during the year for injection, withdrawal or monitoring.

More gas is stored in the Oriskany sandstone formation than in any other rock unit in New York State. Used for storage at ten fields including Stagecoach, the Oriskany accounted for 65% of total statewide capacity, 65% of working storage capacity and 61% of total maximum daily deliverability. The largest single storage field with respect to capacity, Dominion Transmission's Woodhull Field in Steuben County, can hold up to 35.9 billion cubic feet of gas in the Oriskany formation.

Permit Applications - In December 2002 Wyckoff Storage Corporation submitted an application to develop a new underground natural gas storage field in a depleted gas production field in Steuben County. Although the Federal Energy Regulatory Commission (FERC) approved the project in October 2003, the company's application for State approval was not adequate and the Division issued a notice of incomplete application in August 2003.

In 2003 staff continued to review a proposal by

National Fuel Gas Supply Company to extend the boundary of its Beech Hill natural gas storage field in Allegany County.

The application previously submitted by Seneca Lake Storage Inc. for a proposed salt cavern storage project in Schuyler County remains on hold by request of the applicant.

Liquefied Petroleum Gas Storage

New York's three liquefied petroleum gas (LPG) underground storage facilities are in Cortland, Steuben and Schuyler Counties. The facilities store propane, butane and other liquid hydrocarbons for delivery to market as needed. Operators reported that 35,346,000 gallons of LPG were in storage at year-end 2003. The volume stored at year-end represents 23 percent of total LPG storage capacity.

Liquefied petroleum gas is stored in caverns excavated in the shales of the Genesee Group or solution mined out of the Salina Group salt formations, which are the same formations used by New York's five solution mining facilities.



A well at the Woodhull Storage Field in Steuben County. The reservoir has the largest storage capacity in New York.

**Table 9 - Summary and Year-End Status
Underground Natural Gas Storage, 2003**

	Onondaga	Oriskany	Medina	Salt Cavern	Total
Number					
Fields	2	10	10	1	23
Wells	50	328	524	3	908
Acreage					
Reservoir	7,541	27,904	42,706	4	78,155
Total	13,577	60,780	102,918	4	177,279
Total Storage Gas					
Capacity (bcf)	10.700	134.754	59.280	2.340	207.074
Year-End (bcf)	8.767	110.063	48.254	0.170	167.255
Working Gas					
Capacity (bcf)	6.863	68.627	27.973	1.450	104.913
Year-End (bcf)	4.930	43.936	16.947	-0.720	65.094
Max Daily Deliverability (mmcf/day)	100	1,171	511	145	1,927



Stagecoach Gas Field, which started operation in 2002, is the easternmost underground natural gas storage field in the US. The field uses innovative horizontal wells to increase gas flow. Well CNYOG W-4 is in the foreground and well W-8 and an equipment building are in the background.

Map 4 - Underground Gas Storage and Solution Salt Mining Fields, 2003

Well Type

- Solution Mining
- ▲ LPG Storage
- Natural Gas Storage

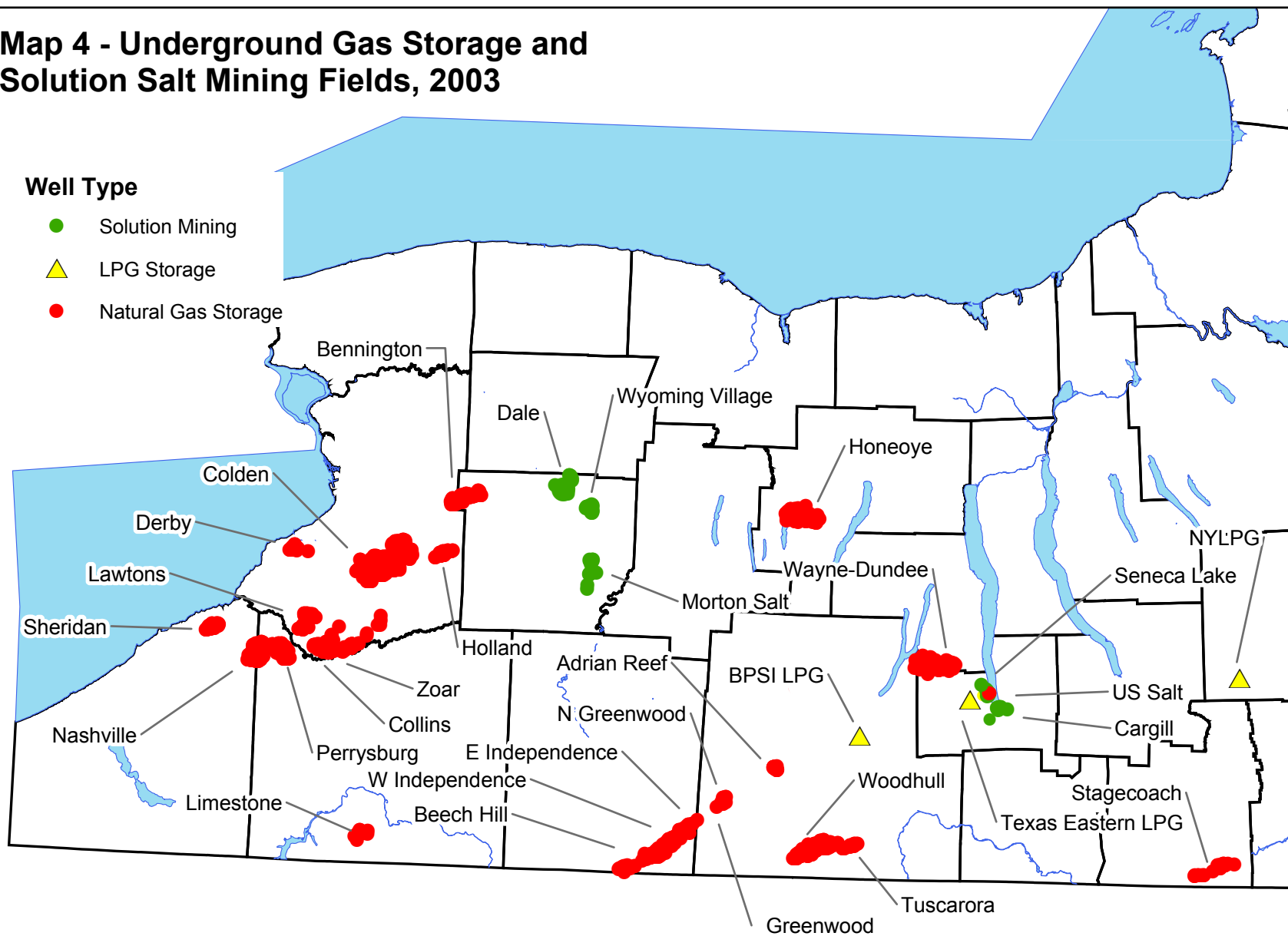


Table 10 - Summary Storage Field Activity, 2003

	Total Number Wells	Total Storage Capacity (bcf)	Gas to Storage (bcf)	Gas from Storage (bcf)	Designed Max. Deliverability (mmcf/day)
Dominion Transmission, Inc.					
Woodhull Field	51	35.904	19.388	16.813	357
Central NY Oil and Gas					
Stagecoach Field	18	13.750	11.373	10.181	500
Columbia Gas Trans. Corp.					
Dundee Field	134	11.000	3.961	3.856	77
Greenwood Field	6	3.600	0.137	0.082	5
N. Greenwood Field	2	3.200	0.384	0.388	9
Honeoye Storage Corp.					
Honeoye Field	39	10.780	4.039	3.936	55
National Fuel Gas Supply					
Beech Hill Field	56	23.000	4.170	4.989	66
Bennington Field	64	5.000	1.786	1.836	75
Colden Field	166	16.220	7.223	5.458	110
Collins Field	46	5.880	2.210	2.025	50
Derby Field	14	0.250	0.249	0.180	5
E. Independence Field	11	6.400	2.390	2.175	15
Holland Field	26	2.600	0.929	1.057	25
Lawtons Field	32	2.470	0.894	0.813	21
Limestone Field	14	19.800	1.482	1.406	37
Nashville Field	71	8.530	3.105	2.991	110
Perrysburg Field	40	3.850	1.386	0.994	35
Sheridan Field	26	3.700	0.924	0.674	25
Tuscarora Field	8	6.300	2.943	3.731	57
W. Independence Field	30	11.800	4.092	3.892	49
Zoar Field	39	2.200	0.816	0.795	40
NYS Electric & Gas					
Seneca Lake Field	3	2.340	1.534	1.143	145
Steuben Gas Storage Co.					
Adrian Reef Field	12	8.500	4.404	3.951	60
Totals	908	207.074	79.820	73.365	1,927

TRENTON-BLACK RIVER ACTIVITY

Top Producers for 2003

Fortuna Energy (Fortuna) acquired assets from Fairman Corporation, East Resources, Pennsylvania General Energy and Columbia Natural Resources, Inc. to become New York's top Trenton-Black River producer in 2003. The Division approved the transfer of 21 wells in Chemung, Schuyler and Steuben Counties to Fortuna.

Fortuna also drilled several more Trenton-Black River prospects on the acquired lands. Perhaps the most notable was the directionally-drilled Konstantinides 1 well in Chemung County which established a new State record for total measured depth at 14,475 feet.

In 2003 Triana Energy became the State's second largest Trenton-Black River producer through its acquisition of Columbia Natural Resources, Inc. The new company is registered as Columbia Natural Resources, LLC.

Technological Advances

Horizontal drilling of deep Trenton-Black River wells increased greatly during 2003. The horizontal re-drilling of a poorly producing vertical well, Henkel 1359 in Steuben County, yielded one of the State's most productive wells to date. The Henkel well is now owned by Fortuna. In 2003 operators also made more use of three-dimensional (3D) seismic as they recognized the value of this type of data for selecting drill sites in complex reservoir systems.

2003 Permits/ Drilling Area Expands

Trenton-Black River permitting activity continued to climb in 2003 with 34 permit applications submitted. The Division issued 38 Trenton-Black River drilling permits to nine different operators for ten different counties. Twenty-four wells were drilled in 2003, including the first wells to use modern exploration methods

and technology to target Trenton reserves in Wayne and Oswego Counties. These Wayne and Oswego County wells are significantly shallower than those in Chemung, Schuyler and Steuben Counties. The target formation is fractured limestone, not the typical hydrothermal dolomite of deep Trenton-Black River wells. The Department recognizes the possibility that these Wayne and Oswego County wells may have different producing characteristics than those wells drilled in the southern tier. Field-wide spacing orders will be needed for these shallower reservoirs if they prove to be productive.

The 1969 Order for Blue Tail Rooster Field in Cayuga County, the only Order for a shallow Trenton field issued to date, established 320-acre units and other well spacing requirements. Future proposals for shallow Trenton limestone units will include an evaluation of applicability of the Blue Tail Rooster model.

Well Spacing and Integration

The sole Trenton-Black River spacing and integration hearing in 2003 was for the County Line Field in Chemung, Schuyler and Steuben Counties. Royalties for the field have been collecting in an interest-bearing escrow account since the first well started production in 2001.

The hearing process for both County Line Field and Terry Hill Field (hearing late 2002) was significantly extended when interested parties filed extensive legal briefs. Final rulings were still pending at the close of 2003.

In 2003 Division Staff also expended considerable effort assisting legal counsel on other issues related to Trenton-Black River activity. Staff evaluated public comments regarding two petitions submitted by Western Land Services (WLS). WLS requested declaratory rulings on DEC's public hearing procedures and on the non-operator lessee's eligibility to receive a working interest share of production.

During 2003 Division Staff also assisted legal counsel in defeating an Article 78 proceeding against the Gregory spacing unit in Quackenbush Field.

Finally, Division staff assisted in responding to a legal challenge by a group of landowners to the Spacing and Integration Order for Stagecoach Field. The Commissioner's decision on the Stagecoach Ruling also remained pending at the end of 2003.

New Production for 2003

At year-end 2003, 50 Trenton-Black River wells were producing natural gas from fourteen fields in five counties. New Trenton-Black River fields discovered in 2003 included Ballyhack Creek in Broome County and Guyanoga Valley in Yates County. This new activity expanded the proven productive Trenton-Black River area roughly 40 miles to the east and 4 miles to the north of its 2002 extent.

Table 11 - Summary Cumulative Production to Year-End 2003, Trenton-Black River

Field Name	Longest Months Production for a Well in Field	Number of Wells*	Average MMCF Per Month Per Well**	Total MMCF Through 2003
Glodes Corner Road	96	12	10	8,795
Wilson Hollow	50	10	85	25,222
Muck Farm	40	4	40	6,437
Pine Hill	38	3	3	387
Quackenbush Hill	37	5	155	22,539
Terry Hill South	34	5	40	5,830
Langdon Hill	31	2	18	838
Cutler Creek	30	1	79	2,358
County Line	27	3	14	940
Sugar Hill	14	1	67	939
Ballyhack Creek	10	1	25	254
Whiskey Creek	1	1	23	23
Caton	3	1	7	21
Guyanoga Valley	5	1	16	82
Total All Trenton-Black River Fields to Year-End 2003				74,665
* Excludes Shut-in Wells				
** Total field production divided by total months of production for all wells				

Map 5 - Trenton Black-River Fields, Central NY, 2003

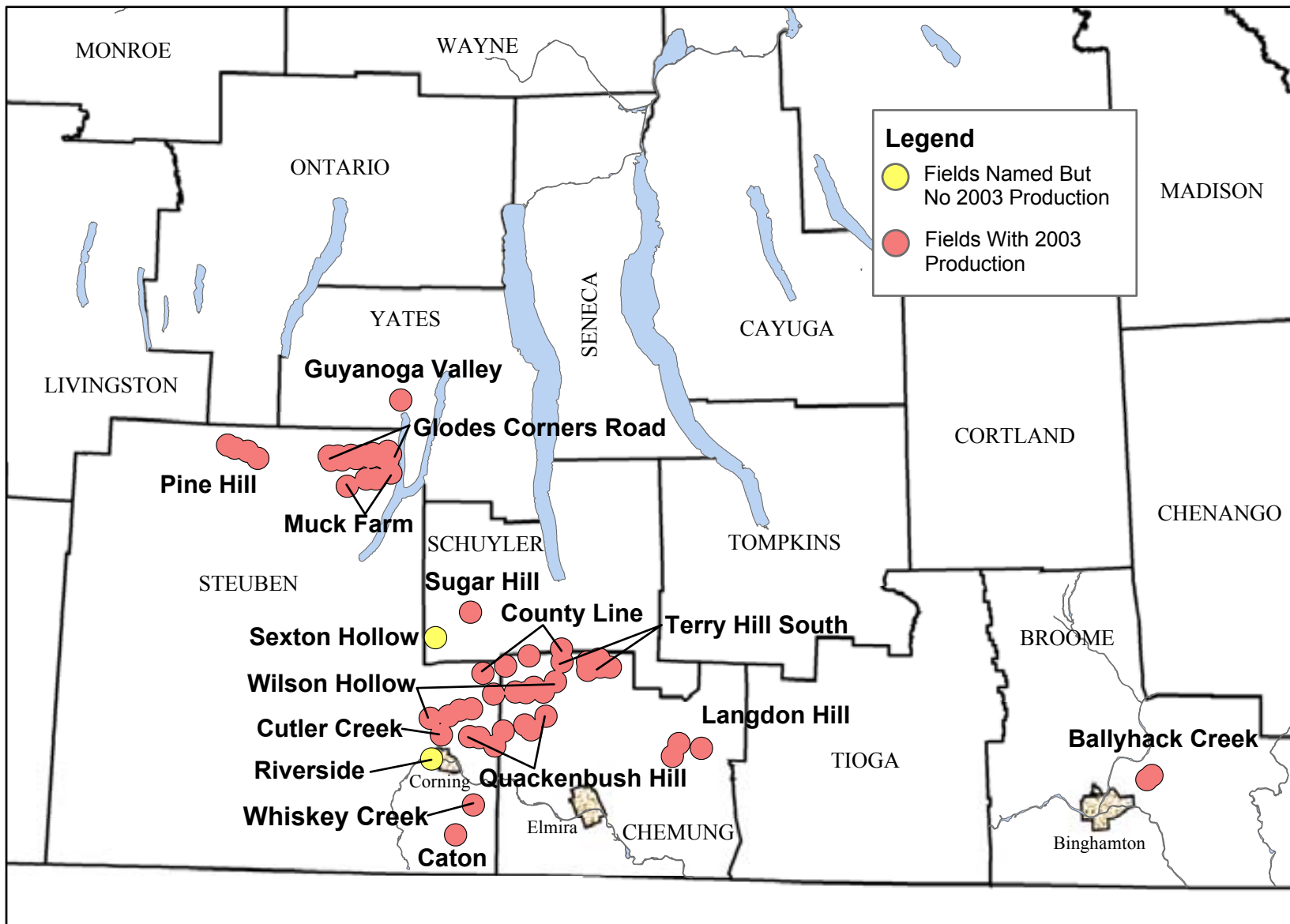


Table 12 - Detailed Cumulative Production to Year-End 2003, Trenton-Black River*

Field and Wells	API Number	Months In Production	Total Production MMCF
Wilson Hollow Field			
Howe	31101228140100	42	5,243
Jimerson	31101227710000	50	3,714
VanVleet	31101228520000	34	1,868
Fratercangelo	31101228840100	27	2,646
Rice	31101228250000	39	532
Parker	31015228910000	23	4,950
Hardy	31015229190100	23	1,279
Chemung SRA #1	31015229600000	19	1,992
Root	31015229750000	15	2,278
Lederer	31015229020100	23	720
Apenowich	31101230590000	0	shut-in
Field Total			25,222
Quackenbush Hill Field			
Lovell	31015228310000	37	11,927
Rhodes	31015228530000	31	3,598
Hartman	31101228920100	28	1,757
Henkel	31101228710100	30	3,684
Gregory	31015229180100	19	1,573
Andrews	31101230380000	0	shut-in
Reed	31101230550000	0	shut-in
Hepfner	31015230280000	0	shut-in
Hakes	31101230540000	0	shut-in
Field Total			22,539
Glodes Corner Rd. Field			
Levandowski	31101216880000	74	1,028
Covert 1	31010216890100	74	1,004
Smith	31101217050000	72	976
Gray	31101215920000	96	854
Fox	31101217060000	72	918
Pizura	31101216920000	74	757
Bergstresser	31101217100000	72	887
Covert 2	31101227680000	48	856
Radigan	31101217030100	57	527

Field and Wells	API Number	Months In Production	Total Production MMCF
Glodes Corners (cont.)			
Ballam-Carter	31101227690000	38	748
Evangelos	31101194970000	84	182
Kozak	31101217120000	71	58
Egresi	31101227720000	0	shut-in
		Field Total	8,795
Muck Farm Field			
Snyder	31101227550000	40	2,631
McAllister	31101227480000	40	2,209
Smith	31101227470000	40	994
Faber	31101227450000	40	603
		Field Total	6,437
Terry Hill South Field			
Kimball	31015228570000	29	1,450
Lant 1	31015228620000	34	1,233
Broz	31015228260000	29	654
Clauss	31015228890100	27	463
Kienzle	31015228800100	25	629
Gublo	31015229100000	0	shut-in
		Field Total	5,830
Cutler Creek Field			
Corning Game Club	31101228850000	30	2,358
		Field Total	2,358
County Line Field			
Whiteman	31015228390000	27	323
Purvis	31097228930000	18	433
Roy	31015229010000	22	184
Youmans	31101229760000	0	shut-in
		Field Total	940
Sugar Hill Field			
SRA 2-1	31097228410000	14	939
		Field Total	939

Field and Wells	API Number	Months In Production	Total Production MMCF
Langdon Hill Field			
Monahan	31015228380000	31	709
Usack	31015229330000	16	129
Konstantinides	31015230230000	0	shut-in
			Field Total 838
Pine Hill Field			
Wolcott	31101227600100	36	178
Peck	31101227660000	38	157
S&D Farms 1	31101227580100	38	52
S&D Farms 1B	31101227590200	0	shut-in
			Field Total 387
Ballyhack Creek Field			
Beagell 2 A	31007229950100	10	254
Butkowsky-1A	31007230560100	0	shut-in
			Field Total 254
Guyanoga Valley Field			
Walters	31123227750100	5	82
			Field Total 82
Whiskey Creek			
Harndon 1	31101230400000	1	23
			Field Total 23
Caton Field			
Maxwell 1B	31101229630200	3	21
			Field Total 21
Riverside Field			
Pace	31101229580000	0	shut-in
			Field Total 0
Seeley Creek			
Curren	31015230760000	0	shut-in
			Field Total 0

Field and Wells	API Number	Months In Production	Total Production MMCF
Sexton Hollow Field			
Grand Prix 1	31097228300000	0	shut-in
Field Total			0
Beans Stations			
Gray	31101229490000	0	shut-in
Field Total			0
Meads Creek			
Schuyler SRA3-1	31097230720000	0	shut-in
Field Total			0
Moreland			
Ganung 2	31097230080000	0	shut-in
Field Total			0
West River			
Bay 1B	31069229850200	0	shut-in
Field Total			0
Total All Trenton-Black River Fields to Year-End 2003			74,665
* Includes wells spudded on or before 12/31/03			



Landowners typically receive royalties of 1/8 or 12.5% of the value of production from a well draining their land. Some landowners in the Trenton-Black River trend are collecting royalties of \$100,000 or more per year.

SOLUTION MINING

Five solution mining facilities in New York (see Map 4 on page 29) produced 2.08 billion gallons of saturated brine, or about 2.5 million metric tons of salt, in 2003. Operators of these five facilities injected 2.19 billion gallons of fresh and recycled plant process water into bedded salt zones of the Upper Silurian Salina Group to recover the brine. Brine withdrawals for 2003 represent a slight decrease compared to 2002's figure of 2.17 billion gallons. The value of New York's 2003 solution salt mining production is estimated at \$100 million.

The 144 operating wells reported in 2003 include injection wells, withdrawal wells, wells equipped for both injection and withdrawal, and standby wells. Table 13 gives the number of

operating and plugged wells at each facility.

U.S. Salt, Cargill, and Morton produced brine to supply on-site evaporation plants which manufacture and package table salt, water conditioning salt, and salt for other uses. Texas Brine and Occidental Chemical supplied chemical manufacturing plants in Niagara Falls via 60-mile-long brine pipelines.

In 2003 solution mining facilities accounted for approximately 60% of New York's total mined salt production, with the remainder extracted by conventional underground mining. According to U.S. Geological Survey statistics, New York typically ranks third among the states in total annual salt production volume.

Table 13 - Status of Solution Salt Mining in New York, 2003

Operator	County	Town	Year Started	Operating Wells	Plugged Wells
U.S. Salt	Schuyler	Reading	1893	11	61
Cargill	Schuyler	Dix	1898	17	13
Morton	Wyoming	Castile & Gainesville	1884	20	25
Occidental Chemical	Wyoming	Middlebury (Dale Field)	1970	57	91
Texas Brine	Wyoming	Middlebury (Wyo. Vil. Field)	1984	39	30
Total				144	221

GEOTHERMAL AND STRATIGRAPHIC WELLS

In 2003 permitting of stratigraphic and geothermal wells in the greater New York City area became a significant workload for the Division's Albany staff which cover the eastern half of the State. In fact New York County tied with Steuben County for the most number of drilling permits (26) issued in 2003.

Site reviews for wells drilled in a city urban environment are far different from those in rural areas where the majority of wells regulated by the Division are drilled. The factors that the Division reviews for most permits, such as impacts to surface and groundwater resources, are replaced by topics such as traffic control and sewer discharges which are handled by city agencies. Other siting concerns in an urban setting include avoidance of subsurface utilities, noise abatement, and emergency access and evacuation routes to and from buildings.

Stratigraphic Wells

In 2003 the New York City Department of Environmental Protection (NYCDEP) applied for 21 permits to drill stratigraphic wells and the Division issued 19 permits to the agency. NYCDEP drilled 13 wells to collect geologic information on the proposed route of City Water Tunnel #3. The tunnel is under construction 350 to 550 feet below the streets of Manhattan to supply drinking water for the city. Details on stratigraphic wells drilled and completed in 2003 are listed in the Appendices under New York County.

Geothermal Wells

NYCDEP was not the only applicant to drill in New York City during 2003. Builders and developers applied for permits to drill 15 geothermal wells equipped with geoexchange technology. This type of well uses the earth as either a heat source or a heat sink, depending upon the season, by circulating water between the surface and the bottom of the well. Since the mean earth temperature beneath New York City is roughly 55°F, these wells are expected to have high operating efficiency. The Division issued seven permits to four different developers for New York City geothermal wells and all seven wells were drilled in 2003.

The Paleontological Research Institute in Ithaca also applied for and drilled two geothermal wells in 2003 for their facility in Ithaca, Tompkins County. The website for this facility's new museum features information on their geothermal wells at <http://www.priweb.org/museumoftheearth/geothermal.htm>.

In addition to Table 14 below, there are more details on drilling and completion of geothermal wells in the Appendices. The Division expects geothermal drilling to continue and perhaps even increase in future years due to the economic and environmental benefits associated with this technology, as well as the incentives from rising fuel costs and "Green Building" tax credits.

Table 14 - Permitted Geothermal Wells, 2003

<u>Company</u>	<u>Wells</u>	<u>Project</u>	<u>Location</u>	<u>Use/Purpose</u>
Yarrow Development	3	South Street Seaport	NY City	Residential
American Institute of Architects	2	AIA Building	NY City	Commercial
Octagon Development	1	Apartments	NY City	Residential
Paleontological Research Institute	2	Museum of the Earth	Ithaca	Commercial
A&F Commercial Builders	1	SCA-1	NY City	Commercial



Drilling rig and cement truck on the sidewalk in front of the American Institute of Architects in downtown Manhattan, New York City. The workers are preparing to cement the casing in a geothermal well.

MINED LAND RECLAMATION PROGRAM

2003 Highlights

Demand for minerals in New York remained robust in 2003. Mineral products are essential for road and building construction and maintenance, as well as many other essentials of modern life. In spite of these facts, the siting of new mines across the State remains highly controversial. Out of the 589 mining permits that the Department issued in 2003, only 51 were for new mines.

Mined land reclamation bond cancellations increased 50% in 2003. Fewer entities are underwriting these bonds and it is getting increasingly difficult and expensive for mine operators to obtain financial security. Mining companies nationwide have been facing the same types of financial security problems and the Interstate Mining Compact Commission has established a working group to search for a solution to this important problem.

In 2003 the Division also saw an increasing number of requests for construction and agricultural exemptions from mining permit requirements. This trend is growing due to a variety of factors, such as: local government enactment of zoning regulations that prohibit mining, public opposition to most new mining proposals, and the time and expense necessary to obtain a mining permit through normal procedures. The Department thoroughly reviews each permit exemption request.

In 2003 the Department issued a mining permit to Cargill Salt for expansion and continued operation of its underground salt mine in Lansing, Tompkins County. The permit authorizes continued activity on 13,417 acres, principally beneath Cayuga Lake. The processing equipment is located underground, but all salt storage facilities are on the surface. This mine is the deepest underground salt mine in the western hemisphere.



Panoramic camera shots are very effective in documenting inspections of large facilities like mine sites. These before and after pictures of the Stony Ford Farm Mine in the Town of Walkill, Orange County document final reclamation at the 40-acre sand and gravel mine.

The upgraded permit conditions meet the highest regulatory standards achievable under State statutes and make the requirements for Cargill's Cayuga Mine comparable to those placed on the American Rock Salt mine in Genesee County. Under an Office of General Services lease, Cargill will pay the State a royalty on rock salt extracted from the State lands beneath the lake.

During 2003 the Department transferred all permits for the Balmat Mine in St. Lawrence County from the bankrupt Zinc Corporation of America (ZCA) to the new owner, St. Lawrence Zinc from Canada. The new company plans to reopen the mine when zinc prices reach sufficient levels; the company expects to employ roughly 165 people. The Balmat Mine has enough ore for at least 10 more years of production and recent gravity research indicates that there may also be another body of ore at the mine. When ZCA was operating, New York was one of the major producers of zinc in the country.

In 2003 Mined Land staff conducted an informational meeting in Delaware County on the new provisions that allow bluestone miners to explore for deposits without going through the full permit process. Mining staff worked with the officers of the New York State Bluestone Association to reach agreement on the required guidance, forms and procedures. To assist staff in reviewing proposals, the Division also developed maps of bluestone areas showing archeologically sensitive areas and other features.

AKZO Salt Co. submitted a written proposal to construct a brine recovery system at their former salt mine in the Town of Leicester, Livingston County. The roof rock over part of the salt mine collapsed on March 12, 1994, and water from overlying aquifers began to flow into the mine. Efforts to save the mine were abandoned by the end of 1994, and the mine was completely flooded in 1996. Department staff along with members of the Attorney General's Office, USGS, and the Livingston County Health Department met to discuss AKZO's proposal to pump brine from the collapse area and transform it into salt products and potable water for Livingston County residents. AKZO's plan is to

lower the elevation of the brine in the collapse zone to keep it out of fractures that penetrate overlying freshwater aquifers. Initially AKZO would install pumping and monitoring wells. If the well tests are favorable, AKZO would then design a desalination and water treatment plant.

Controversy over hours of operation at several large sand and gravel mines in Suffolk County, Long Island became more of an issue in 2003. The mines have historically started to load trucks with sand at 4:00 a.m., but have waited until 7:00 a.m. for noisier activities like loading gravel or running mining equipment.

Even though the mines voluntarily changed their sand loading time to 5:00 a.m., local governments still want the Department to require later truck loading and travel hours. However, the mine operators maintain that an early starting time is crucial so customers can get their large trucks onto and off the Long Island Expressway before rush hour traffic starts. Department efforts to help the towns and mine operators negotiate a solution were unsuccessful.

Finally, the Department collected its largest mining-related fine ever, \$375,000, from East Coast Mines in Suffolk County for illegally removing over 1 million cubic yards of material.



The roadrunner and wheelbarrow on a Cortlandville Sand & Gravel truck exemplify the need for timely delivery of construction materials.

MINE CHARACTERISTICS OVERVIEW

In 2003 there were 2,317 active DEC-regulated mines in New York State, a drop of 100 mines from the previous year (see Table 15). As explained in the box at the right, New York also has many unregulated mines (active and abandoned) that fall outside the jurisdiction of the Mined Land Reclamation Law; most of these are small mines. DEC has no statistics on unregulated mines and they are not included in this report. However, page 53 provides information on a joint project with the New York State Geological Survey to inventory old abandoned underground mines. Most of these old underground mines predate Department regulation.



Statistics in this report refer solely to mines that need a permit under the Mined Land Reclamation Law.

- ♦ More than 1,000 tons or 750 cubic yards of minerals in 12 consecutive months.
- ♦ More than 100 cubic yards of minerals in or adjacent to any body of water not classified as “protected” by Article 15 of the ECL.

Lands affected by mining before 1975 and not re-affected by later mining are not subject to the Mined Land Reclamation Law.

Mine Type

The vast majority of New York’s mines produce sand and gravel or other surficial deposits such as glacial till, clay and topsoil. However, the State does have roughly 250 hardrock mines that produce materials ranging from limestone, shale and salt, to more specialized products such as wollastonite and talc. Most of the State’s hardrock mines are surface quarries, but New York also has a few active underground mines. For more details on New York State’s mining commodities see pages 55-64.

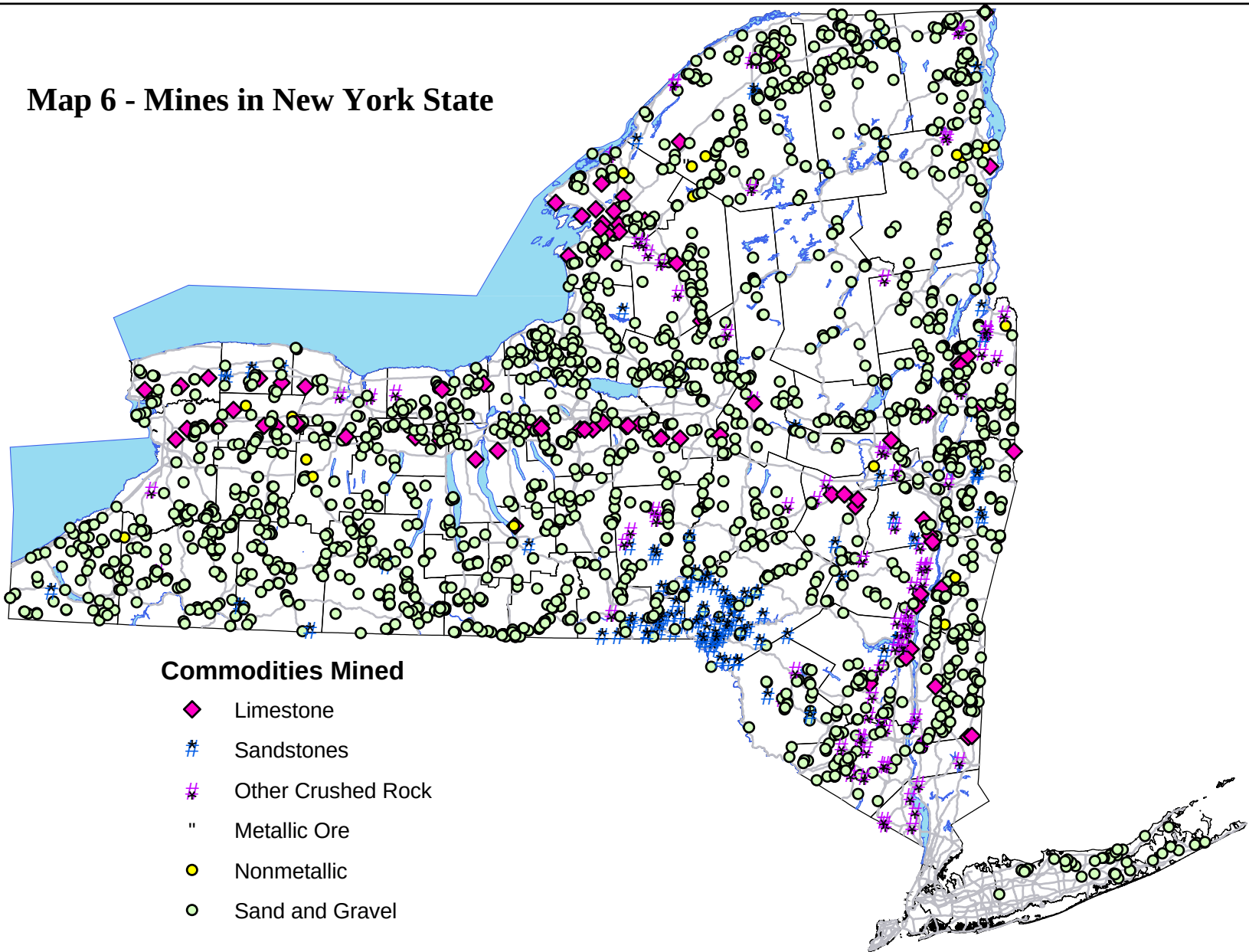
Owner Type

Industry operators own roughly three-fourths of the mines in the State, with roughly a 1 percent increase per year as shown in Table 15 below. Most of the government mines belong to town and county highway departments that need sand and gravel for road maintenance purposes. In addition, government agencies at all levels purchase a significant percentage of the State’s output of sand, gravel and other aggregates to maintain public roads.

Table 15 - Ownership of New York Mines, 2000-2003

	<u>2000</u>	<u>%</u>	<u>2001</u>	<u>%</u>	<u>2002</u>	<u>%</u>	<u>2003</u>	<u>%</u>
Industry	1,837	74%	1,849	75%	1,832	76%	1,776	77%
Town	542	22%	523	21%	503	21%	466	20%
County	78	3%	68	3%	64	3%	57	2%
State	18	1%	18	1%	17	1%	17	1%
Federal	-	-	1	-	1	-	1	-
Total	2,475	100%	2,459	100%	2,417	100%	2,317	100%

Map 6 - Mines in New York State



Geographic Distribution of Mines

Map 6 on page 44 shows that mines can be found everywhere in the State except the New York City area. However, the map does not convey the relatively small percentage of the State's land surface devoted to mining.

In 2003 there were active mines in 56 of New York's 62 counties. Comparison of the affected acreage covered under a mining permit with county land area shows that in 48 of the 56 counties, mining activity occupied less than 0.3 percent of the land area.

There were eight counties with 0.38 to 0.44 percent of their land affected by a mining permit. While this is still a very negligible amount, it's noteworthy that all eight counties are near major population centers that require large supplies of mineral resources for road and building construction and maintenance.

Mine Acreage Statistics

Affected Acreage - In 2003 the total affected land that mine operators were authorized to extract minerals from under their current permits was 48,533 acres.

Life-of-Mine Acreage - Operators must indicate the total area that they expect to mine under past, current and future permits for a site. In 2003 this total life-of-mine area, which includes past reclaimed acreage, was 126,674 acres.

Reclaimed Acres - In 2003 Mined Land staff approved final reclamation of 958 acres at 128 closed mines and concurrent reclamation of 598 acres at operating mines. Since 1975 a total of 22,208 acres of mined land has been reclaimed.

Net Affected Acreage - Net affected acreage is the total affected acreage ever covered under a mined land permit minus the reclaimed acreage.

Table 16 - Counties with Highest Net Affected Acreage Under Mining Permit*

County	Population Center Nearby	Active Mines	Net Affected Acreage	Percent County Land Area
Albany	Capital Tri-City	20	1,278	0.38%
Dutchess	NY City & Long Island	65	2,061	0.39%
Genesee	Buffalo, Rochester & Thruway Corridor	28	1,282	0.40%
Livingston	Rochester	26	1,792	0.44%
Onondaga	Syracuse	46	2,081	0.40%
Ontario	Rochester	47	1,538	0.36%
Rensselaer	Tri-City	56	1,559	0.37%
Rockland	NY City & Long Island	5	555	0.44%

* Prepared using acreage in the Mining Commodities Appendix new this year. This appendix contains 2005 data and excludes acreage listed under multi-county, multi-region and statewide categories. Future versions of appendix will match year of annual report.

Trends in Mine Size

Table 17 below gives 2000-2003 size range information for all active mines based on their affected acreage. The table clearly shows that the number of large mines has been increasing over time while the number of small mines has been decreasing.

The renewal permits that staff issued in 2003 were for mines ranging in size from 1 to 759 acres. In 2003 there were 37 mine renewals over

100 acres in size compared to just 12 that large in 2002. Permits for new mines ranged in size from 1 to 40 acres in 2002 and just 1 to 30 acres in 2003. The average size of new mines dropped from 7.42 acres in 2002 to 6.2 acres in 2003.

**2003 Annual Fees
for Permits
\$2,582,509**

Table 17 - Affected Acreage of Existing Mines, 2000-2003

	2000	2001	2002	2003
Minor projects*	85	87	82	80
0-5 acres	901	852	814	751
6-10 acres	603	605	584	549
11-20 acres	436	441	449	446
21-30 acres	155	166	178	172
>30 acres	295	308	310	319
Total Mines	2,475	2,459	2,417	2,317



Mine operators are dependent on naturally occurring deposits that must be located, proved economic, financed, permitted and bonded before production starts. There are also costs for overburden removal, blasting and on-site processing equipment, such as the crushers required to produce this limestone aggregate.

MINED LAND RECLAMATION PERMITS

Permits Issued 2003

Mined Land Reclamation permits are issued for a set term of five years or less and must be renewed. In 2003 staff issued 51 new mine permits and 538 renewals or modification permits, for a total of 589. These 2003 figures show the continuing trend of fewer applications for new mines and increased interest in expanding the existing ones (see Table 18). This trend is attributed to escalating opposition to new mines as residential development moves into rural areas.

A renewal permit may simply authorize continued operation of the mine or it may allow modifications such as expansion of the life-of mine area, mining deeper, or addition of processing equipment. Permit modifications always involve extra review and frequently require environmental impact statements and public hearings.



While mines sometimes receive community support for the essential materials they provide, public opposition to mines, like this “Stop the Mine” sign is a much more common reaction.

Table 18 - Permits 2000 to 2003

	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>
New Permits	71	71	56	51
Renewals & Modifications	290	307	367	538
Total Permits	361	378	423	589

The Division of Mineral Resources encourages communities to:

- learn about mineral resources within their boundaries, and
- use land-use planning tools to prevent future conflicts with mining activities.



This class for Cornell University Landscape Architecture Students was jointly sponsored by Cornell and the Tioga County Soil and Water Conservation District to familiarize the students with rural land-use planning issues. Mined Land staff assisted with the course and critiqued mining and reclamation plans prepared by the students. Mined Land staff across the State are available to meet with town officials to discuss mining issues in their community.

Geographic Distribution of Permit Activity

Table 19 shows the ten largest permit renewals for 2003 based on affected acreage. Hardrock quarries make up only 16% of New York mines, but six of the ten largest renewal permits (60%) were hardrock. This table also illustrates the trend toward industry consolidation. Both Hanson Aggregates and Lafarge North American are nationwide mining companies; they own five of the ten mines listed.

Table 20 compares the top five counties for mining permits (all types) for 2002 and 2003. Note that both St. Lawrence and Cattaraugus Counties are listed for both years. However, the vast majority of permits involved were for mines under 20 acres.

Table 21 shows the top ten counties with the

most new mining permits issued in 2002 and 2003. Note that five of the counties are listed under both years: Clinton, Delaware, Oswego, Rensselaer and Suffolk.



Hydraulic shovel loading dumptruck with rubbleized stone after a blast.

Table 19
Permit Renewals Ten Largest Mines - 2003

<u>County</u>	<u>Company</u>	<u>Mine Name</u>	<u>Mine Type</u>	<u>Acres*</u>
Albany	Lafarge N. American Cement	Ravena Quarry	Limestone	759
Oswego	Hanson Aggregates NY	Lacona-North	Sand & Gravel	408
Greene	St. Lawrence Cement	Catskill Quarry	Limestone	318
Columbia	St. Lawrence Cement	Hudson Quarry	Limestone	281
Onondaga	Hanson Aggregates NY	Skaneateles Quarry	Limestone	270
Oneida	Hanson Aggregates NY	Oriskany Falls Quarry	Limestone	264
Genesee	Frey Concrete	Frey Sand and Gravel	Sand & Gravel	260
Ontario	Hanson Aggregates NY	Phelps Mine	Sand & Gravel	238
Niagara	Redland Quarries NY	Lockport Quarry	Limestone	225
Cattaraugus	Country Side Sand and Gravel	Country Side Site	Sand and Gravel	220
* Based on total affected acreage (includes reclaimed acres).				

Table 20
All Mining Permits - Top Five* Counties, 2002-2003

<u>2002</u>				<u>2003</u>			
County	Total Permits	Renewal Permits	New Permits	County	Total Permits	Renewal Permits	New Permits
Cattaraugus	29	27	2	St. Lawrence	30	27	3
St. Lawrence	23	21	2	Oswego	26	22	4
Rensselaer	20	17	3	Chautauqua	20	18	2
Franklin	19	17	2	Cattaraugus	18	17	1
Erie	18	18	0	Steuben	18	18	0

* Ranked by total number of permits. Second permit not counted in the 12 cases statewide where more than one permit issued to a single mine in 2003 (typically a modification permit followed by a renewal permit).

Table 21
New Mining Permits - Top Ten* Counties, 2002-2003

<u>2002</u>			<u>2003</u>		
County	Permits	Total Acres	County	Permits	Total Acres
Delaware	5	25	Delaware	5	14
Wayne	5	23	Oswego	4	31
Rensselaer	3	63	Suffolk	3	36
Washington	3	14	Otsego	3	27
Oneida	3	10	St. Lawrence	3	13
Oswego	2	62	Broome	3	13
Saratoga	2	24	Clinton	2	13
Niagara	2	22	Rensselaer	2	11
Clinton	2	16	Chemung	2	10
Suffolk	1	17	Albany	1	30

* Ranked first by number of permits then by acreage. County omitted if 2003 new mine permits total under 10 acres

MINE RECLAMATION AND BONDS

Mine Reclamation

Final uses of mined land can vary considerably depending on location, size and depth of the site, surrounding land uses and local zoning. Farmland and pasture are two of the most common reclamation objectives in New York State, but mined land is also reclaimed to residential, forestry, wildlife, recreational, commercial and industrial uses.



Before



After

Reclamation takes two forms based on timing of the work - concurrent or final. Concurrent reclamation is reclamation of an affected or mined-out area while resources are still being extracted from other parts of the mine site.

Although concurrent reclamation is not required, the Mined Land Reclamation Law states that it should be done where possible. The Division of Mineral Resources strongly promotes concurrent reclamation, particularly for mines over ten acres.

Concurrent reclamation is almost always economically feasible and has a number of advantages. Chief among these are the reduced potential for negative environmental impacts (dust, erosion, sedimentation) and the improved standing of the mine in the eyes of the surrounding community.



Concurrent reclamation in foreground while mining continues in background. Concurrent reclamation requirements are negotiated during permitting.

Affected & Reclaimed Land

Affected Acreage	51,075
Life-of-Mine Acreage	126,674
Reclaimed, Final 2003	958
Concurrent 2003	598
Reclaimed Since 1975	22,208



Reclaimed Wetland

Financial Security

At the end of 2003, the Division held \$93,248,713 in financial security that mine operators posted to guarantee the reclamation of mined land. This was an increase of \$5.9 million from 2002.

Financial Security
\$93,248,713

Mined land reclamation bond cancellations increased 50% in 2003. Fewer entities are underwriting these bonds and it is getting increasingly difficult and expensive for mine operators to obtain financial security. Mining companies nationwide have been facing the same types of financial security problems and the Interstate Mining Compact Commission has established a working group to search for a solution. In the meantime, companies that formerly supplied financial security to mine operators continue to leave the market. For example, DEC noted a 59% increase in bond cancellations in May 2003 when Kemper Insurance Company decided to stop offering bonds to mine operators.

Normally when an operator fails to reclaim a mine, the surety company forfeits the financial security and the Department uses it to reclaim the land. Sureties also have the option of paying directly for the reclamation. However, actual reclamation costs can easily exceed the posted bond amount. The Department is studying the adequacy of current mine reclamation bonds.

2003 Mine Inspections

Site Visits - 2,226
Staff Travel - 190,306 Miles

Mined Land staff inspect mine sites: 1) during permit application review, 2) during the operating phase for compliance with Department requirements, and 3) when land is reclaimed. They also investigate complaints against mining operations though many of these turn out to be against mines outside the scope of the Mined Land Reclamation Law.

2003 Mined Land Reclamation Award



Southern Tier Stone Products in the City of Binghamton, Broome County was selected as the winner of the 2003 New York State Mined Land Reclamation Award for their voluntary reclamation of a mine. The prestigious award reflects the company's dedication to high standards of environmental protection through efficient mining and reclamation practices.

The company choose to reclaim the site even though it was not required. The reclamation eliminated an eyesore and created a beautiful open meadow and visual buffer for visitors at the nearby State Park campground.

Mining at the site pre-dated the enactment of the NYS Mined Land Reclamation Law in 1975. Until the mine was taken over by Southern Tier Stone, it was a long-term regulatory problem for both DEC and the Town of Fenton.

ABANDONED MINE ISSUES

Many mines that were operating in the 19th and 20th centuries have long been abandoned with few records available. In 2003 DEC and the New York State Geological Survey (NYSGS) received a \$20,000 joint grant from the U.S. Mine Safety and Health Administration (MHSA) to inventory underground mines. The funds were provided under a federal program started in response to the 2002 Quecreek disaster (Pennsylvania). The disaster occurred when miners breached the wall of a flooded un-mapped abandoned mine.

DEC and the NYSGS have been inventorying and recording georeference information for the surface entrances to roughly 150 major underground abandoned mines throughout the State. The amount of money awarded was less than the \$77,000 originally requested. If additional funding is found, the two agencies will digitize all available mine maps and provide the information in a web-based format.

As an example of the types of problems associated with abandoned mines, in 2003 Mined Land staff attended a field trip sponsored by DEC's Bureau of Public Land Services to former mine sites in Ninham State Park, Putnam County. Mined Land staff were asked to provide input regarding the occurrence of arsenic at former mines on the property and the potential groundwater impacts if proposed logging activity was approved. While the mines were started in search of other materials, there was also limited production of arsenic which ended around 1907.

On December 21, 2003, U.S. Gypsum (USG) notified DEC that a surface subsidence feature had been found over 1,000 feet north of the company's abandoned underground gypsum mine in the Town of Oakfield, Genesee County. The five-foot wide by three-foot deep feature was originally reported to the Genesee County Sheriff's Department and USG on December 16. Based on the distance from the boundary of USG's mine and the mine's depth, it is highly

unlikely that the subsidence problem was associated with USG's mine. However, there were other mines in the area that were abandoned in the late 1800s and early 1900s that were never subject to Department jurisdiction and there is no specific information on their location. Despite the lack of connection to USG, the company repaired the depression. While this subsidence was relatively minor, there have been subsidence incidents at old abandoned mines in previous years that were much more serious.

DEC also has initiatives to deal with more recently abandoned mines. DEC seizes financial security and arranges for reclamation of mines when an operator does not comply with the reclamation requirements in their permit. In 2003 DEC staff started preparation for reclamation of an abandoned mine known as the Whippo Site in the Town of Poland, Chautauqua County. Approximately 5 acres of mined land had been left unreclaimed and DEC seized the bond.

In Region 7 Mined Land staff have been engaged in a multi-year pilot project aimed at bringing abandoned mines into compliance. One hundred and six mines with expired permits were targeted for inspections, legal correspondence and consent orders. When the pilot project is completed and the results evaluated, it will serve as a model for statewide efforts.



Abandoned Whippo Mine in
Cattaraugus County.

PRODUCTS OF NEW YORK MINES

New York State law does not require mine operators to report how much their facilities produce. However, every year the U.S. Geological Survey (USGS) collects information on a voluntary basis for over 100 mined commodities nationwide; the USGS state rank, production quantity and production value figures for New York are included on pages 55 to 64. Note that these federal figures should be regarded as minimums; the surveys are incomplete and the USGS regularly revises numbers as more information becomes available. However, the data is still useful for showing rough levels of production and year-to-year trends.

In 2003 crushed stone remained, by value, New York's leading non-fuel mineral, followed by cement (portland and masonry), salt, construction sand and gravel, and wollastonite. These five commodities accounted for 98% of the State's nonfuel mineral value. USGS estimated the value of the State's nonfuel mineral production at \$978 million. In 2003 New York remained the only wollastonite-producing state and also rose to first place in production of industrial garnet. New York remained third in production of salt, fourth in talc and tenth in cement (portland and masonry). Other important minerals mined in New York include bluestone, sandstone, granite, shale, slate and clay.

Table 22 - New York Quantity of Production Rank for US, 1999 - 2003

	1999	2000	2001	2002	2003
Cement*	9	10	9	10	10
Garnet	1	2	2	2	1
Salt	4	3	3	3	3
Sand & Gravel**	13	13	12	12	14
Talc	4	4	4	4	4
Wollastonite	1	1	1	1	1
Zinc	4	4	4	***	***

New Yorkers use 50 pounds of minerals per capita per day !



* Portland and masonry cement

** Construction grade sand and gravel

*** Zinc mine temporarily closed in 2002, new owner expects to reopen

Limestone & Dolostone, Crushed Stone and Cement

New York's limestone and dolostone resources are found throughout the State. In 2003 New York had 99 limestone and dolostone producing mines that represented roughly 90% of the stone sold in New York. The most important products from these mines are crushed stone and cement which are both used predominantly in building and road construction and maintenance. Based on value, crushed stone was New York's leading nonfuel mineral in 2003, followed by cement (portland and mason).

Crushed Stone - New York's crushed stone dropped 15 percent in quantity and 13 percent in value from the previous year to 51,500,000 metric tons of stone worth roughly \$358 million. While limestone and dolostone represent the vast majority of New York's crushed stone production, the State also produces crushed granite, marble, traprock, sandstone and quartzite.

Cement - The USGS did not publish 2003 cement quantity and value information for New York, but the figures would be in the vicinity of the 2,940,000 metric tons worth at least \$230 million produced in 2001. Cement production is concentrated in the upper Hudson Valley area where a relatively pure limestone is quarried from the Coeymans formation.

Table 23 - Principal Limestone & Dolostone Producers: Largest Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Barrett Paving Materials, Inc.	St. Lawrence	Norfolk
	Lewis	Leyden
Buffalo Crushed Stone, Inc.	Genesee	Alabama
	Erie	Lancaster
Callanan Industries, Inc.	Montgomery	Florida
Dolomite Products Co., Inc.	Ontario	Manchester
	Wayne	Walworth
Hanson Aggregates NY, Inc.	Onondaga	DeWitt & Skaneateles
	Livingston	Lima
	Oneida	Marshall
	Jefferson	Pamelia
Lafarge N. American Cement	Albany	Coeymans
Tilcon New York, Inc.	Dutchess	Poughkeepsie
	Rockland	Stony Point

* Principal Producers based on number of acres permitted.

Sand and Gravel

Sand and gravel mines are New York's most common type of mine with 1,948 active mines spread across the State. Suffolk, Dutchess and Rensselaer Counties are New York's leading producers of sand and gravel due to their proximity to large markets and the occurrence of high quality glacial deposits. Sand and gravel is New York's fourth most economically important nonfuel mineral

In 2003 New York's production of construction grade sand and gravel declined by over 6% to 30,200,000 metric tons, but the value rose slightly to \$172 million. The vast majority of this material was used for road and building construction and maintenance.

Table 24 - Principal Sand & Gravel Producers: Largest Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Buffalo Crushed Stone, Inc.	Cattaraugus Allegany	Machias (2) & Farmersville Alfred
Burton F. Clark, Inc.	Delaware	Davenport
Callanan Industries, Inc.	Rensselaer Albany	North Greenbush Coeymans
Cranesville Aggregate Co., Inc.	Schenectady Columbia	Glenville Claverack
Dalrymple Gravel & Contr.	Steuben Chemung	Campbell Chemung
E. Tetz & Sons, Inc.	Sullivan Orange	Thompson Wawayanda
Elam Sand and Gravel Corp.	Ontario Wayne	West Bloomfield Macedon
F. S. Lopke Contracting, Inc.	Tioga Broome	Tioga (2 mines) Barker
Frey Concrete	Genesee	Alexander
Gernatt Asphalt Products, Inc.	Erie	Sardinia (2 mines)

<u>Company</u>	<u>County</u>	<u>Town</u>
Graymont Materials (NY), Inc.	Clinton St. Lawrence	Schuyler Falls Parishville
Hanson Aggregates NY, Inc.	Oswego Ontario Livingston Herkimer Steuben	Sandy Creek Phelps & Victor Caledonia Russia Bath
Lafarge North America, Inc.	Cattaraugus Erie	Freedom Lancaster
Northern Aggregates, Inc.	Oswego	Volney
Red Wing Properties, Inc.	Dutchess	La Grange (2 mines)
Syracuse Sand & Gravel, LLC	Ontario	Phelps
Valley Sand & Gravel, Inc.	Livingston	Caledonia
Warren W. Fane, Inc.	Rensselaer	Schaghticoke (2 mines)
William M. Larned & Sons, Inc.	Albany	Guilderland

* Principal Producers based on number of acres permitted.



A 2003 inspection conducted by Region 7 Mined Land staff at the Town of Windsor Highway Department's sand and gravel mine in Broome County included a large processing operation set up by the New York Army National Guard for training purposes.

Salt

More than 10,000 square miles of central and western New York are underlain by the Salina formation which contains roughly 3.9 trillion metric tons of rock salt. This large salt resource has been very important throughout the State's history. The Cargill Lansing mine, near Ithaca, is the deepest underground salt mine in the western hemisphere and the former AKZO Retsof mine, near Geneseo, was the largest underground salt mine in the world when it was in operation. In 2003 salt ranked third by value in New York's nonfuel minerals commodities and the State was also the country's third largest salt producer.

There are two rock salt mines in New York State. Salt is also produced from five solution mining facilities in Schuyler and Wyoming Counties (see page 38). In 2003 these solution mining facilities produced brine equivalent to 2.5 million metric tons of salt worth approximately \$100 million. Data voluntarily submitted to the U.S. Geological Survey shows that the State's total salt output for 2003 was approximately 4.9 million metric tons, worth \$190 million. This means that New York's 2003 rock salt production was roughly 2.4 million metric tons worth approximately \$90 million. While these figures are not exact, they are useful indicators of the level and value of production in New York.

Table 25 - Principal Salt Producers: Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
American Rock Salt, Inc.	Livingston	Groveland
Cargill, Inc.	Tompkins	Lansing

* Principal Producers based on number of acres permitted.

This photo of the American Rock Salt Mine shows a temporary hoist used during initial development of the mine. Its twin is in the background. The temporary structures were used while the shafts were being sunk and the mine's underground infrastructure developed. They were replaced with permanent hoists when the mine went into full production.



Wollastonite

Wollastonite was New York's fifth most valuable nonfuel mineral in 2003. More importantly, New York is the only commercial producer of wollastonite in the country and the State's four mines, located in the Adirondacks, account for almost all U.S. production. According to USGS estimates, imports of wollastonite into the U.S. are relatively low, so New York's mines supplied over 90 percent of the wollastonite used in the country. New York's wollastonite mines also supplied roughly one-fourth of the world production in 2003.

Wollastonite is a white, fibrous industrial mineral. One of wollastonite's most unusual characteristics is its ability to cleave into needle-like (acicular) crystals. These fibrous particles make it useful as an asbestos replacement and as reinforcement in a wide array of products such as plastics, coatings, friction products, ceramics, paint and sealants.

To protect proprietary data, the USGS does not publish detailed quantity and value statistics for NY wollastonite. However, the federal agency did note that domestic production dropped in 2003. North American (New York and Mexico) wollastonite producers appear to be changing their marketing strategy and focusing on higher-value acicular wollastonite, particularly for plastics, and leaving the lower end of the market to imports.

Table 26 - Principal Wollastonite Producers: Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Gouverneur Talc Co., Inc.	Lewis	Diana
NYCO Minerals, Inc.	Essex	Lewis
	Essex	Willsboro

* Principal Producers based on number of acres permitted.



NYCO Minerals, Inc. Lewis Mine in Lewis County is a conventional open-pit mine where ore is drilled, blasted and then hauled to a processing plant. NYCO chemically modifies the surface of some of its wollastonite products to improve performance.

Garnet

In 2003 New York rose to first place in the industrial garnet-producing states in the U.S. Barton Garnet's Gore Mountain mine, which opened in 1878 in the Adirondacks, was the largest garnet mine in the world during its operation. In 1983 the company's mining activity shifted to nearby Ruby Mountain. Garnets from Ruby Mountain make especially high-quality abrasives. Since there is only one garnet-producing mine in the State, the USGS does not publish New York production information.

Most of the garnet from New York is used for sandpaper. Garnet is also used in grinding and polishing glass and metal, sandblasting, water filtration and waterjet stone cutting. Garnet is a well-known gemstone, but most New York garnets have too many internal cracks for this use.

Table 27 - Principal Garnet Producer: Mine Location, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Barton Mines Co., LLC	Warren	Johnsburg

* Principal Producer based on number of acres permitted.

Talc

In 2003 New York ranked fourth in the country in talc production. The USGS does not publish talc production information by state to protect proprietary data. However, they did note that New York production was up in 2003.

While Gouverneur Talc is New York's only talc producing company, their holdings include two permitted mines on roughly 200 acres of land in the northwest Adirondacks, as well as two milling operations. Industrial talc is a mixture of talc, tremolite, anthophyllite, serpentine and dolomite. Because of the presence of these minerals, New York's industrial talc is fibrous with long, thin white needle-like crystals. It is used as a paint extender, a carrier for insecticide dust and in many other products where a white powdery mineral is needed. It is also used in ceramics, filler in asphalt roofing, putty and linoleum.

Table 28 - Principal Talc Producer: Largest Mine Location, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Gouverneur Talc Co., Inc.	St. Lawrence	Edwards

* Principal Producer based on number of acres permitted.

Sandstone and Bluestone

In 2003 there were 22 mines in New York producing sandstone, including graywacke, metamorphic quartzite, conglomerate and sedimentary sandstones. Sandstone, which is widely found across the State, is cut into blocks for building, flagstone and curbing. Some sandstone is used for rip-rap and some is crushed to make concrete aggregate. Pure quartz sandstone can be used to make high-quality glass, but sandstone in New York contains too much iron and alumina for this purpose. There are no quantity or value statistics available for New York sandstone production.

Table 29 - Principal Sandstone Producers: Largest Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Blades Construction Products	Steuben	Bath
Callanan Industries, Inc.	Sullivan	Cohecton, Thompson
	Rensselaer	Brunswick
Cobleskill Stone Products, Inc.	Delaware	Hancock
Hanson Aggregates NY, Inc.	Orleans	Murray
Shelby Crushed Stone Products	Orleans	Shelby

New York and Pennsylvania are the only sources of bluestone, a particular type of commercial sandstone. In 2003 there were 51 bluestone mines in Regions 4, 7 and northern Region 3. The New York State Bluestone Association estimates that it is a \$40-million-a-year industry. The term “bluestone” was first applied to certain “blueish” colored sandstones quarried in Ulster County in the 1800s. As the industry developed, abundant quantities of similar materials were discovered in other locations. While bluestone is a strongly cemented rock, it splits easily into thin smooth slabs. The color varies from blue-gray, blue-green, buff, steel-gray to rust. It is used mainly for decorative purposes such as stone walls, outdoor patios, building exteriors, indoor floors and swimming pool steps and borders.

Table 30 - Principal Bluestone Producers: Largest Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Damascus 535 Quarry & Stone	Broome	Windsor
Heldeberg Bluestone	Albany	Berne
Indian Country, Inc.	Broome	Sanford
Johnston & Rhodes Bluestone	Delaware	Hancock
Larry Shaefer	Delaware	Deposit

* Principal Producers based on number of acres permitted.

Granite

In 2003 there were 11 granite mines operating mostly in the Adirondacks. Granite is used largely for building exteriors, granite countertops, other internal decorative uses, statues and gravestone monuments. It is also used as aggregate. New York granite ranges in color from gray and green to black.

Table 31 - Principal Granite Producers: Largest Mine Locations, 2003*

<u>Company</u>	<u>County</u>	<u>Town</u>
Champlain Stone Ltd.	Washington	Fort Ann & Whitehall
Graymont Materials NY, Inc.	Franklin	Brandon
	Clinton	Mooers
Hanson Aggregates NY, Inc.	Oneida	Forestport
Lake Placid Granite Co.	Essex	Jay (2 mines)
Thalle Industries, Inc.	Dutchess	Fishkill

* Principal Producers based on number of acres permitted. Includes anorthosite.

Zinc

While New York has historically been a major zinc producer, there was no production from the single zinc mine in the northwestern Adirondacks in 2003. The Pierrepont mine was permanently closed in 2001 and work at the Balmat mine was suspended awaiting a buyer. When the two mines were operating they ranked in the top ten zinc mines in the country and New York ranked third or fourth in total production. During 2000, which was the last full year of operation, the Balmat mine was the third most productive zinc mine in the country. This mine has a new owner and is expected to resume production when the price of zinc improves.



See the Appendices on [page 101](#) for more details on mines in your area:

- Final Reclamation of Mines in 2003
- Mining Permits Issued in 2003
- Mine Commodities, 2003

2003 New York Mining Industry At a Glance

2,317 Active Mines

**\$978 Million
Estimated 2003
Production Value**

**Annual Regulatory Fees
\$2,582,509**

Major Types Of Mines, 2003

Sand & Gravel	1,948
Limestone & Dolostone	99
Bluestone	51
Sandstone	22
Granite	11
Wollastonite	4
Garnet	1
Salt	2
Talc	2
Zinc	1

Affected & Reclaimed Land

Affected Acreage	51,075
Life-of-Mine Acreage	126,674
Reclaimed, 2003	1,556
Reclaimed Since 1975	22,208

US Quantity Rank, 2003

Wollastonite	1st
Garnet	1st
Salt	3rd
Talc	4th
Cement	10th
Sand & Gravel	14th

NY Value Rank, 2003 Non-Fuel Minerals

Crushed Stone	1st
Cement	2nd
Salt	3rd
Sand & Gravel	4th
Wollastonite	5th

Owner Type, 2003

Industry	1,776
Government	541
Local Govt.	523
State Govt.	17
Federal Govt.	1

**Financial Security
To Guarantee
Reclamation
\$93,248,713**

Oil and Gas Appendices

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¹ This table uses the well codes described below.

² The statistics for this table have been derived from information supplied by owners in their annual well reports to the Division of Mineral Resources.

³ The oil production total in the Town's table is based on well owner reports. The numbers differ slightly from those reported in the main text which are based on oil purchaser reports.

Well Codes & Other Abbreviations					
BR	Brine	GE	Gas Extension	OD	Oil Development
DH	Dry Hole	GW	Gas Wildcat	SG	Stratigraphic
DW	Dry Wildcat	MS	Monitoring Storage	ST	Storage
GD	Gas Development	NL	None Listed	TH	Geothermal
API	American Petroleum Institute Number				
TVD	True Vertical Depth				

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DIVISION OF MINERAL RESOURCES
OIL AND GAS STATISTICS *
(1994 - 2003)

Annual Production	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Oil (1,000 bbl)	299	304	309	276	217	193	181	183	179	157
Gas (mmcf)	21,551	19,312	18,244	16,189	16,608	16,836	17,808	28,020	37,133	36,025
Well Statistics										
Oil	3,670	3,208	3,464	3,478	3,739	3,463	2,962	3,373	3,106	3,117
Gas	6,019	6,216	5,869	5,741	5,903	5,756	5,775	5,949	5,773	5,906
Inactive Oil	1,326	1,117	1,650	1,265	1,590	1,165	1,340	1,416	1,343	1,547
Inactive Gas	561	667	565	709	579	583	850	843	929	832
Storage	876	866	868	867	885	885	870	877	905	908
Active Brine	83	70	64	65	79	87	93	94	96	106
Inactive Brine ¹	80	52	61	70	57	57	61	52	51	38
Water Injection	923	783	668	554	471	223	667	568	434	683
P&A (During Year)	248	219	233	187	169	138	131	79	146	142
Number of Wells	13,786	13,198	13,442	12,936	13,472	12,357	12,749	13,251	12,783	13,279
Drilling & Completions										
1. Total Wells Spudded	133	112	144	91	74	101	128	139	109	137
2. Total Wildcats	2	3	4	3	25	23	22	15	40	35
3. Discoveries	1	3	3	2	5	6	129	123	60	60
Oil Wildcat	0	0	0	1	0	0	0	0	0	1
Gas Wildcat	1	3	4	1	5	7	9	4	10	10
4. Total Dry Holes	7	2	4	3	20	21	16	24	32	25
5. Oil										
Development	34	20	71	29	7	25	17	25	17	28
Extension	0	0	0	0	0	0	0	0	0	0
6. Gas										
Development	50	28	31	20	30	15	98	80	28	19
Extension	1	0	0	1	6	6	5	14	5	3
7. Injection	0	14	0	0	0	0	0	0	0	0
8. Disposal	0	0	2	0	0	0	0	0	0	0
9. Stratigraphic	41	20	0	0	0	6	1	1	1	15
10. Service	0	2	2	0	0	0	0	0	0	0
11. Brine	6	14	3	12	19	7	13	15	10	11
12. Storage	0	7	8	1	3	0	0	5	15	3
13. Geothermal	10	0	0	2	0	0	0	6	1	6
14. Total Completions (3,4,5,6,7,8,9,10,11,12, 13)	140	110	125	68	90	87	159	174	119	121
Footage (1,000's) Vertical Wells	318	244	313	207	276	261	534	608	266	248
Deviated Wells	4	0	21	3	28	43	88	99	93	91
15. Total Footage Drilled	322	244	334	210	304	304	622	707	359	339
Proven Reserves at Year End										
Gas (mmcf)										
A. In Situ	232,867	219,084	205,522	192,546	189,342	65,160	96,273	174,014	307,214	163,559
B. In Storage Reservoirs	154,200	159,500	171,100	154,496	165,112	157,210	147,313	164,313	162,099	176,936
C. Total	387,067	378,584	376,622	347,042	354,454	222,370	243,586	338,327	469,313	340,495
Oil (1000 bbls)										
	2,800	2,850	2,900	2,645	2,428	846	783	1,189	1,069	1,066

* Gas production 2000-2002 revised. Statistics for lines 2 - 15 are based upon received completion reports from the operators.

¹ Includes unplugged Tully Valley Brine Wells for 1994.

Division of Mineral Resources Oil and Gas Statistics, 1994 - 2003.

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Permits Issued During 2003

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Allen	Columbia Natural Resources LLC	31003235310000	Gallmann 1	9/2/2003	12/3/2003
Alma	Klein, Roger, A. Jr.	31003235430000	Lot 53 K-18	12/30/2003	3/3/2004
Andover	Otis Eastern Service, Inc.	31003235230000	McAndrew, R. 4-A	7/23/2003	11/10/2003
Andover	Otis Eastern Service, Inc.	31003235240000	Joyce, H. 1	7/23/2003	7/29/2003
Andover	Otis Eastern Service, Inc.	31003235250000	Wilbert, A. 2	7/24/2003	8/4/2003
Andover	Otis Eastern Service, Inc.	31003235260000	Wormley, F. 4	7/24/2003	11/18/2003
Andover	Otis Eastern Service, Inc.	31003235270000	Hess, J. 2	7/24/2003	7/31/2003
Andover	Otis Eastern Service, Inc.	31003235280000	Rosebush 1A	8/5/2003	8/11/2003
Andover	Otis Eastern Service, Inc.	31003235350000	Hess, J. 3	10/29/2003	4/28/2004
Andover	Otis Eastern Service, Inc.	31003235360000	Hess, J. 4	10/29/2003	4/23/2004
Andover	Otis Eastern Service, Inc.	31003235370000	Wormley 5	11/25/2003	11/25/2003
Independence	Plants & Goodwin, Inc.	31003233490001	Mervine 29A	8/5/2003	12/19/2003
Independence	Plants & Goodwin, Inc.	31003235290000	Mervine 34	8/11/2003	11/5/2003
Independence	Plants & Goodwin, Inc.	31003235300000	Mervine 35	8/11/2003	11/13/2003
Independence	Plants & Goodwin, Inc.	31003235400000	Mervine 36	12/10/2003	12/23/2003
Broome					
Fenton	Belden & Blake Corporation	31007230780000	Olson 1	10/8/2003	2/13/2004
Kirkwood	Belden & Blake Corporation	31007230560000	Butkowsky 1	9/8/2003	9/19/2003
Kirkwood	Fortuna Energy, Inc.	31007230560100	Butkowsky 1-A	10/13/2003	10/13/2003
Kirkwood	Belden & Blake Corporation	31007230830000	Gabriel 1	11/6/2003	12/11/2003
Maine	Phillips Production Co.	31007230320000	Pond 1	12/11/2003	2/13/2004
Nanticoke	Phillips Production Co.	31007230300000	Manwaring 1	12/11/2003	2/19/2004
Cattaraugus					
Allegany	Uhl, Stephen L.	31009235200000	Schnell 7	7/3/2003	7/6/2003
Carrollton	R & C Oil Co.	31009235060000	Case 34	2/7/2003	4/15/2003
Carrollton	Bouquin, Fred C. & Fred L.	31009235120000	Wahl 22	4/21/2003	4/21/2003
Carrollton	Bouquin, Fred C. & Fred L.	31009235130000	Ruoff 8	4/21/2003	4/29/2003
Carrollton	McCracken, Carl A. III	31009235170000	McCray 100	5/22/2003	6/24/2003
Carrollton	McCracken, Carl A. III	31009235180000	Eakin Tract 3, Well 1	6/3/2003	6/30/2003
Carrollton	Degitz-Stevenson Financial Securit	31009235380000	Spafford 13	11/25/2003	12/19/2003
Carrollton	McCracken, Carl A. III	31009235410000	Eakin Tract 3 Well 2	12/11/2003	5/17/2004
Carrollton	McCracken, Carl A. III	31009235420000	Eakin Tract 3 Well 3	12/11/2003	5/21/2004
Freedom	A. J. Lease Account	31009235100000	Powell Et. Al. 2	3/14/2003	4/8/2003
Freedom	Stedman Energy, Inc.	31009235340000	Bixby Hill 1	9/24/2003	10/20/2003
Chautauqua					
Carroll	Desert Gas Exploration, Inc.	31013235190000	Peterson 1	7/3/2003	10/14/2003
Clymer	Great Lakes Energy Partners	31013235390000	Rhodes, R. 5	12/3/2003	1/27/2004
Ellicott	U S Energy Development Corp.	31013235110000	Eckman 1	3/25/2003	3/28/2003
Hanover	Cross, Erwin R. and Karl E.	31013235210000	Cross 1	7/9/2003	9/15/2003
Kiantone	Great Lakes Energy Partners	31013235320000	Rininger 3	9/12/2003	1/2/2004

Permits Issued During 2003

Town	Company	API Number	Well Name	Issue Date	Spud Date
Chemung					
Big Flats	Fortuna Energy, Inc.	31015230280000	Hepfner 1	5/2/2003	7/28/2003
Catlin	Fortuna Energy, Inc.	31015230170000	Hammond 1	10/3/2003	12/5/2003
Erin	Columbia Natural Resources LLC	31015229110100	Schmidt 624537-A	10/10/2003	1/2/2004
Southport	Fortuna Energy, Inc.	31015230760000	Curren 1	9/22/2003	10/26/2003
Van Etten	Fortuna Energy, Inc.	31015230230000	Konstantinides 1	2/26/2003	3/27/2003
Chenango					
Otselie	EOG Resources, Inc	31017230610000	Von Hassel 1	8/20/2003	9/25/2003
Preston	EOG Resources, Inc	31017230570000	Oxford 2	8/13/2003	9/18/2003
Cortland					
Taylor	Belden & Blake Corporation	31023230510000	Frink 1	7/31/2003	9/12/2003
Virgil	Phillips Production Co.	31023230350000	Sega 1	5/23/2003	6/25/2003
Virgil	Columbia Natural Resources LLC	31023230350100	Sega 1-A	8/19/2003	8/20/2003
Delaware					
Franklin	Resource America, Inc.	31025210700000	Grant 6	12/3/2003	12/23/2003
Erie					
Newstead	Subsea Oil & Gas, Inc.	31029235220000	Miles 3	7/14/2003	7/31/2003
Sardinia	Ardent Resources, Inc.	31029235330000	Bockhahn Wm Unit 1	9/22/2003	11/4/2003
Genesee					
Pembroke	Subsea Oil & Gas, Inc.	31037230220000	Kutter 3	2/14/2003	8/11/2003
Pembroke	Subsea Oil & Gas, Inc.	31037230240000	Worth 1	2/25/2003	
Pembroke	Subsea Oil & Gas, Inc.	31037230730000	Neureuter 1	9/18/2003	9/25/2003
Pembroke	Subsea Oil & Gas, Inc.	31037230820000	Parks 2	10/10/2003	10/21/2003
Madison					
Lebanon	Nornew, Inc.	31053229290000	Warren 2	6/27/2003	
Lebanon	Nornew, Inc.	31053230480000	SJGS 1	6/27/2003	8/6/2003
Lebanon	Nornew, Inc.	31053230490000	Mensche 1	6/27/2003	8/28/2003
Lebanon	Nornew, Inc.	31053230500000	Whitney 1	6/27/2003	8/20/2003
Lebanon	Nornew, Inc.	31053230520000	Swenson-Manning 1	7/25/2003	8/15/2003
Lebanon	Nornew, Inc.	31053230600000	Symonds-Joseph 1	8/21/2003	9/5/2003
Stockbridge	Ardent Resources, Inc.	31053230980000	Meeker 1	12/23/2003	1/8/2004
New York					
Manhattan	Amer. Institute of Architects (NY	31061210400000	534 LaGuardia Place AIA 1	4/8/2003	4/23/2003
Manhattan	Amer. Institute of Architects (NY	31061210410000	534 LaGuardia Place AIA 2	4/9/2003	5/5/2003
Manhattan	New York City Dept. of Environm	31061210420000	Baxter St. A	4/16/2003	5/16/2003
Manhattan	New York City Dept. of Environm	31061210430000	Franklin St. - A	4/16/2003	8/26/2003
Manhattan	New York City Dept. of Environm	31061210440000	Ericsson A	4/16/2003	5/29/2003
Manhattan	Yarrow LLC	31061210450000	Seaport 1	5/20/2003	4/2/2003
Manhattan	Octagon Development LLC	31061210460000	TG-2	7/10/2003	8/26/2003
Manhattan	A&F Commercial Builders, LLC	31061210470000	SCA-1	8/28/2003	9/7/2003
Manhattan	Yarrow LLC	31061210490000	Seaport 4	12/3/2003	12/26/2003

Permits Issued During 2003

Town	Company	API Number	Well Name	Issue Date	Spud Date
New York					
Manhattan	Yarrow LLC	3106121050000	Seaport 5	12/3/2003	12/19/2003
Manhattan	New York City Dept. of Environm	31061210510000	Grand St.-B	9/18/2003	10/6/2003
Manhattan	New York City Dept. of Environm	31061210520000	Hester St.-A	9/18/2003	10/1/2003
Manhattan	New York City Dept. of Environm	31061210530000	E. 30th St. - A	10/9/2003	10/20/2003
Manhattan	New York City Dept. of Environm	31061210540000	W. 30th St. - A	10/8/2003	10/16/2003
Manhattan	New York City Dept. of Environm	31061210550000	W. 30th St. - C	10/8/2003	4/5/2004
Manhattan	New York City Dept. of Environm	31061210560000	W. 65th St. - A	10/8/2003	10/20/2003
Manhattan	New York City Dept. of Environm	31061210570000	Grand St.-C	12/10/2003	
Manhattan	New York City Dept. of Environm	31061210580000	E. 30th St. - B	9/17/2003	10/20/2003
Manhattan	New York City Dept. of Environm	31061210590000	E. 33rd St. - A	10/10/2003	10/27/2003
Manhattan	New York City Dept. of Environm	31061210600000	Crosby St. - A	12/10/2003	1/26/2004
Manhattan	New York City Dept. of Environm	31061210610000	Franklin St. - B	12/31/2003	1/19/2004
Manhattan	New York City Dept. of Environm	31061210620000	Mulberry St. - A	12/31/2003	1/26/2004
Manhattan	New York City Dept. of Environm	31061210630000	Walker St. - A	12/31/2003	1/20/2004
Manhattan	New York City Dept. of Environm	31061210660000	E. 31 St. - A	10/31/2003	11/10/2003
Manhattan	New York City Dept. of Environm	31061210680000	E. 35th St. - F	10/31/2003	11/10/2003
Manhattan	New York City Dept. of Environm	31061210690000	W. 67th St. - A	10/31/2003	11/11/2003
Ontario					
Gorham	Fortuna Energy, Inc.	31069229850200	Bay 1-B	7/31/2003	8/9/2003
Oswego					
Palermo	Seneca Resources Corp.	31075230700000	Loomis-1 37628	9/16/2003	10/26/2003
Schroeppel	Seneca Resources Corp.	31075230710000	Huntley-1 37627	9/16/2003	10/4/2003
Schroeppel	Seneca Resources Corp.	31075230770000	Phinney-1 37626	10/6/2003	11/1/2003
Otsego					
Morris	Grasen Energy Inc	31077210360000	Gilbertsville 1	1/28/2003	
Schuyler					
Catharine	Fortuna Energy, Inc.	31097229350200	Wonderview Farms 1-B	9/22/2003	1/25/2004
Dix	Fortuna Energy, Inc.	31097230080000	Ganung 2	2/14/2003	3/3/2003
Dix	EOG Resources, Inc	31097230530000	WGI 1	7/31/2003	9/14/2003
Dix	EOG Resources, Inc	31097230530100	WGI 1-A	10/22/2003	10/22/2003
Dix	EOG Resources, Inc	31097230670000	WGI 2	9/8/2003	
Orange	Fortuna Energy, Inc.	31097230720000	SRA3 1	12/1/2003	12/13/2003
Orange	Fortuna Energy, Inc.	31097230860000	Towner 1	12/5/2003	2/3/2004
Reading	EOG Resources, Inc	31097230040000	Fierro 1	1/7/2003	2/13/2003
Reading	US Salt LLC	31097230250000	Well 60	3/20/2003	
Reading	US Salt LLC	31097230260000	Well 62	3/20/2003	
Reading	US Salt LLC	31097230330000	Well 60	5/8/2003	5/19/2003
Seneca					
Fayette	Columbia Natural Resources LLC	31099229610000	Hartman 624309	4/10/2003	6/10/2003
Fayette	Columbia Natural Resources LLC	31099230270000	Martin 624308	4/10/2003	6/15/2003
Fayette	Rasmussen, Ronnie O.	31099230660000	Rebecca 1	10/7/2003	4/7/2004

Permits Issued During 2003

Town	Company	API Number	Well Name	Issue Date	Spud Date
Seneca					
Fayette	Great Lakes Energy Partners	31099230740000	Wessig 1	9/19/2003	10/1/2003
Seneca Falls	Great Lakes Energy Partners	31099230640000	Proper-Poorman 2	8/21/2003	10/6/2003
Seneca Falls	Great Lakes Energy Partners	31099230650000	Wise-Bender 2	10/30/2003	11/5/2003
Seneca Falls	Great Lakes Energy Partners	31099230750000	Proper-Poorman 1	9/19/2003	10/10/2003
Seneca Falls	Great Lakes Energy Partners	31099230840000	Proper-Olsowske 1	10/23/2003	
Tyre	Great Lakes Energy Partners	31099230410000	Smith-Griggs 2	6/16/2003	10/18/2003
Tyre	Great Lakes Energy Partners	31099230420000	Smith-Griggs 1	6/16/2003	10/14/2003
Tyre	Great Lakes Energy Partners	31099230430000	Smith-Griggs 4	6/16/2003	11/17/2003
Tyre	Great Lakes Energy Partners	31099230440000	Smith-Griggs 3	6/16/2003	
Steuben					
Bath	Kelly Oil and Gas, Inc.	31101230290000	Scudder 1	4/30/2003	5/11/2003
Campbell	Fortuna Energy, Inc.	31101230590000	Apenowich 1	8/21/2003	9/22/2003
Caton	Fortuna Energy, Inc.	31101229630200	Maxwell 1-B	3/25/2003	4/17/2003
Caton	Fortuna Energy, Inc.	31101230400000	Harndon 1	6/2/2003	6/23/2003
Corning	Fortuna Energy, Inc.	31101230380000	Andrews 1	6/23/2003	7/30/2003
Corning	Fortuna Energy, Inc.	31101230540000	Hakes 1	8/7/2003	9/18/2003
Corning	Fortuna Energy, Inc.	31101230550000	Reed 1	8/7/2003	10/7/2003
Howard	Columbia Natural Resources LLC	31101230390000	Miller 1	6/3/2003	8/20/2003
Troupsburg	Victory Energy Corp.	31101230160000	Fishel 1	1/8/2003	3/5/2003
Troupsburg	Victory Energy Corp.	31101230790000	Henninger 1	10/10/2003	11/16/2003
Troupsburg	Victory Energy Corp.	31101230800000	Snyder 1	10/10/2003	11/10/2003
West Union	Richardson Petroleum Corp.	31101230090000	Edwards II 12	1/8/2003	2/11/2003
West Union	Richardson Petroleum Corp.	31101230100000	Edwards II 13	1/8/2003	2/18/2003
West Union	Richardson Petroleum Corp.	31101230110000	Edwards II 14	1/8/2003	1/30/2003
West Union	Richardson Petroleum Corp.	31101230120000	Edwards II 18	1/8/2003	2/21/2003
West Union	Richardson Petroleum Corp.	31101230130000	Edwards II 19	1/8/2003	2/26/2003
West Union	Yahn & Yahn Inc.	31101230340000	Schultz 3A	5/16/2003	10/10/2003
West Union	Richardson Petroleum Corp.	31101230450000	Edwards II 20	6/24/2003	7/17/2003
West Union	Richardson Petroleum Corp.	31101230460000	Edwards II 21	6/24/2003	7/1/2003
West Union	Richardson Petroleum Corp.	31101230470000	Edwards II 15	6/24/2003	7/23/2003
West Union	Yahn & Yahn Inc.	31101230890000	Edlind 12	11/25/2003	12/5/2003
West Union	Richardson Petroleum Corp.	31101230920000	Edwards II 28	12/16/2003	12/22/2003
West Union	Richardson Petroleum Corp.	31101230930000	Edwards II 29	12/16/2003	12/30/2003
West Union	Richardson Petroleum Corp.	31101230940000	Edwards II 33	12/16/2003	1/8/2004
West Union	Richardson Petroleum Corp.	31101230950000	Edwards II 34	12/16/2003	1/19/2004
West Union	Richardson Petroleum Corp.	31101230960000	Edwards II 38	12/16/2003	1/23/2004
Tompkins					
Ithaca	Paleontological Research Institutio	31109230010000	Museum of the Earth A	2/13/2003	3/4/2003
Ithaca	Paleontological Research Institutio	31109230020000	Museum of the Earth B	2/13/2003	3/12/2003
Newfield	Columbia Natural Resources LLC	31109229970200	Albanese 1-B	2/27/2003	2/27/2003

Permits Issued During 2003

Town	Company	API Number	Well Name	Issue Date	Spud Date
Wayne					
Butler	Lenape Resources, Inc.	31117230140000	Everhart 1	1/17/2003	1/27/2003
Butler	Lenape Resources, Inc.	31117230150000	High 1	1/13/2003	1/16/2003
Butler	Lenape Resources, Inc.	31117230180000	K. High 1	2/25/2003	3/12/2003
Galen	Triana Energy, Inc.	31117230360000	Hughes 1	5/22/2003	
Galen	Columbia Natural Resources LLC	31117230370000	Harper 1	5/22/2003	10/30/2003
Galen	Columbia Natural Resources LLC	31117230810000	Hughes 2	10/16/2003	
Galen	Columbia Natural Resources LLC	31117230870000	Hughes 2	11/7/2003	11/11/2003
Wyoming					
Middlebury	Texas Brine Company, LLC	31121233540100	Texas Brine 76a	2/20/2003	7/2/2003
Middlebury	Occidental Chemical Corp	31121234230000	Hooker 134	5/6/2003	5/8/2003
Middlebury	Occidental Chemical Corp	31121234240000	Hooker 123	5/6/2003	5/13/2003
Middlebury	Texas Brine Company, LLC	31121235070000	Texas Brine 83	2/20/2003	4/15/2003
Middlebury	Texas Brine Company, LLC	31121235080000	Texas Brine 84	2/20/2003	4/23/2003
Middlebury	Texas Brine Company, LLC	31121235090000	Texas Brine 85	2/20/2003	4/29/2003
Middlebury	Occidental Chemical Corp	31121235140000	Hooker 152	5/19/2003	6/8/2003
Middlebury	Occidental Chemical Corp	31121235150000	Hooker 150	5/19/2003	5/20/2003
Middlebury	Occidental Chemical Corp	31121235160000	Hooker W-1	5/19/2003	6/2/2003

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Wells Completed During 2003

Town	Company	API Number	Well Name	TVD	Completion Date	Well Type	Field
Allegany							
Andover	Otis Eastern Service, Inc.	31003235240000	Joyce, H. 1	1,425	9/25/2003	OD	Fulmer Valley
Andover	Otis Eastern Service, Inc.	31003235250000	Wilbert, A. 2	1,300	9/23/2003	OD	Fulmer Valley
Andover	Otis Eastern Service, Inc.	31003235270000	Hess, J 2	1,300	9/18/2003	OD	Andover
Andover	Otis Eastern Service, Inc.	31003235280000	Rosebush 1A	2,050	10/1/2003	OD	Fulmer Valley
Independence	Plants & Goodwin, Inc.	31003233490000	Mervine 29	1,282	1/9/2003	OD	Beech Hill-Independence
Independence	Plants & Goodwin, Inc.	31003235000000	Bloss 3	1,870	3/12/2003	OD	Beech Hill-Independence
Independence	Plants & Goodwin, Inc.	31003235050000	Mervine 33	2,213	2/19/2003	OD	Beech Hill-Independence
Broome							
Kirkwood	Belden & Blake Corporation	31007230560000	Butkowsky 1	10,105	10/11/2003	DW	Not Applicable
Kirkwood	Fortuna Energy, Inc.	31007230560100	Butkowsky 1-A	10,104	10/18/2003	DW	Ballyhack Creek
Kirkwood	Belden & Blake Corporation	31007230830000	Gabriel 1	4,899	12/18/2003	DW	Not Applicable
Cattaraugus							
Allegany	Uhl, Stephen L.	31009235200000	Schnell 7	1,996	8/15/2003	OD	Bradford
Carrollton	McCracken, Carl A. III	31009235030000	McCray 117	1,345	3/14/2003	OD	Bradford
Carrollton	McCracken, Carl A. III	31009235040000	McCray 119	1,370	3/21/2003	OD	Bradford
Carrollton	R & C Oil Co.	31009235060000	Case 34	1,386	5/27/2003	OD	Bradford
Carrollton	Bouquin, Fred C. & Fred L.	31009235120000	Wahl 22	1,505	7/14/2003	OD	Bradford
Carrollton	Bouquin, Fred C. & Fred L.	31009235130000	Ruoff 8	1,441	8/28/2003	OD	Bradford
Carrollton	McCracken, Carl A. III	31009235170000	McCray 100	1,350	8/27/2003	OD	Bradford
Carrollton	McCracken, Carl A. III	31009235180000	Eakin Tract 3, Well 1	1,410	9/12/2003	OD	Bradford
Dayton	Texas Keystone, Inc.	31009234680000	Stone, C 3	3,446	8/28/2003	GD	Lakeshore
Farmersville	Fairmont Oil Co., Inc.	31009184650000	D-1 Damude	500	10/27/2003	OW	Farmersville
Freedom	A. J. Lease Account	31009235100000	Powell Et. Al. 2	2,822	7/14/2003	DH	Bixby Hill
Chautauqua							
Busti	Libra Petroleum Co.	31013234620000	Crandall, L. E.C.-16	690	7/17/2003	OD	Busti
Busti	Libra Petroleum Co.	31013234660000	Crandall, L. E.C.-20	689	6/27/2003	OD	Busti
Carroll	Desert Gas Exploration, Inc.	31013235190000	Peterson 1	4,375	12/20/2003	GD	Lakeshore
Clymer	Chautauqua Energy, Inc.	31013234420000	J. Hansen 1	3,322	2/3/2003	DH	Clymer
Clymer	Chautauqua Energy, Inc.	31013234420100	J.Hansen 1A	3,090	7/29/2003	OD	Clymer
Ellery	New York Gas & Oil Co, Inc.	31013225880000	Gorzycza 1	7,136	12/16/2003	DW	Not Applicable
Gerry	Cassadaga Valley Central School	31013234190000	Fee 2	3,670	1/3/2003	GD	Lakeshore
Hanover	Cross, Erwin R. and Karl E.	31013235210000	Cross 1	1,300	9/29/2003	GD	Not Applicable
Harmony	Nornew, Inc.	31013234100002	Senske 1	4,320	1/20/2003	GD	Lakeshore
North Harmony	Resource America, Inc.	31013233230002	Carr 5-BB	2,705	8/8/2003	DH	North Harmony
Chemung							
Southport	Fortuna Energy, Inc.	31015230760000	Curren 1	11,329	12/10/2003	GW	Seeley Creek

Wells Completed During 2003

Town	Company	API Number	Well Name	TVD	Completion Date	Well Type	Field
Chenango							
Otselic	Grasen Energy Inc	31017230060000	Beaver Meadow 1	2,023	7/25/2003	SG	Not Applicable
Preston	Grasen Energy Inc	31017230050000	Oxford 1	2,650	7/23/2003	SG	Not Applicable
Cortland							
Taylor	Belden & Blake Corporation	31023230510000	Frink 1	2,238	9/16/2003	DW	Not Applicable
Virgil	Phillips Production Co.	31023230350000	Sega 1	7,823	8/13/2003	DW	Not Applicable
Virgil	Columbia Natural Resources LLC	31023230350100	Sega 1-A	7,848	8/31/2003	DW	Not Applicable
Erie							
Collins	Seneca Resources Corp.	31029234890000	McCarthy 37546	1,498	7/15/2003	GW	Not Applicable
Concord	Cotton Well Drilling Co., Inc.	31029234980000	Orsini 1	413	8/18/2003	GD	Concord
Newstead	Subsea Oil & Gas, Inc.	31029235220000	Miles 3	1,030	8/28/2003	GD	Alden-Lancaster
Genesee							
Pembroke	Subsea Oil & Gas, Inc.	31037230220000	Kutter 3	1,101	9/12/2003	GD	Alden-Lancaster
Pembroke	Subsea Oil & Gas, Inc.	31037230820000	Parks 2	1,055	11/12/2003	GD	Alden-Lancaster
Madison							
Lebanon	Nornew, Inc.	31053230480000	SJGS 1	3,036	9/8/2003	GD	Bradley Brook
Lebanon	Nornew, Inc.	31053230490000	Mensche 1	3,058	9/15/2003	GD	Bradley Brook
Lebanon	Nornew, Inc.	31053230500000	Whitney 1	3,147	9/15/2003	GD	Bradley Brook
Lebanon	Nornew, Inc.	31053230520000	Swenson-Manning 1	3,279	8/29/2003	GW	Not Applicable
Lebanon	Nornew, Inc.	31053230600000	Symonds-Joseph 1	3,263	10/10/2003	GE	Bradley Brook
New York							
Manhattan	Amer. Institute of Architects (NY	31061210400000	534 LaGuardia Place AIA	1,250	5/16/2003	TH	Not Applicable
Manhattan	Amer. Institute of Architects (NY	31061210410000	534 LaGuardia Place AIA	1,250	5/5/2003	TH	Not Applicable
Manhattan	New York City Dept. of Environm	31061210420000	Baxter St. A	529	6/20/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210430000	Franklin St. - A		9/11/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210440000	Ericsson A	529	6/25/2003	SG	Not Applicable
Manhattan	Yarrow LLC	31061210450000	Seaport 1	1,500	6/2/2003	TH	Not Applicable
Manhattan	Octagon Development LLC	31061210460000	TG-2	1,500	8/28/2003	TH	Not Applicable
Manhattan	New York City Dept. of Environm	31061210510000	Grand St.-B		10/17/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210520000	Hester St.-A	548	10/17/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210530000	E. 30th St. - A	606	11/10/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210540000	W. 30th St. - A		11/14/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210560000	W. 65th St. - A	585	11/10/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210580000	E. 30th St. - B	595	11/11/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210590000	E. 33rd St. - A		11/13/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210640000	South St.-B	566	11/2/2003	SG	Not Applicable
Manhattan	New York City Dept. of Environm	31061210690000	W. 67th St. - A	571	11/26/2003	SG	Not Applicable
Ontario							
Bristol	Honeoye Storage Corp.	31069040400000	Lane 1	2,779	5/15/2003	ST	Honeoye

Wells Completed During 2003

Town	Company	API Number	Well Name	TVD	Completion Date	Well Type	Field
Ontario							
Gorham	Belden & Blake Corporation	31069229850100	Bay 1-A	5,279	2/22/2003	DW	Not Applicable
Gorham	Fortuna Energy, Inc.	31069229850200	Bay 1-B	5,360	8/18/2003	GW	West River
Richmond	Honeoye Storage Corp.	31069040050000	Allen 1	2,591	5/15/2003	ST	Honeoye
Orange							
Newburgh	New York City Dept. of Environm	31071210340000	RHB 1	722	3/9/2003	SG	Not Applicable
Schuyler							
Dix	Fortuna Energy, Inc.	31097230080000	Ganung 2	8,638	8/11/2003	GW	Moreland
Dix	EOG Resources, Inc	31097230530000	WGI 1	9,103	10/20/2003	DW	Not Applicable
Orange	New York State	31097032540000	NYS Lands-Monterey Bro	3,470	8/29/2003	DW	Not Applicable
Orange	New York State	31097039650000	State of NY 4	3,360	9/18/2003	DH	Monterey
Reading	US Salt LLC	31097214670000	Fee 58	2,642	10/14/2003	BR	International Salt
Reading	US Salt LLC	31097230330000	Well 60	2,850	6/22/2003	BR	International Salt
Seneca							
Covert	Eastern American Energy Corp.	31099229500100	Ziefle 1-A	7,468	6/23/2003	DW	Not Applicable
Fayette	Columbia Natural Resources LLC	31099229610000	Hartman 624309	2,300	6/24/2003	GD	Fayette-Waterloo
Fayette	Rasmussen, Ronnie O.	31099229900000	Rebecca 2	2,320	5/22/2003	GD	Fayette-Waterloo
Fayette	Columbia Natural Resources LLC	31099230270000	Martin 624308	2,350	6/24/2003	GD	Fayette-Waterloo
Fayette	Great Lakes Energy Partners	31099230740000	Wessig 1	2,061	10/22/2003	GD	Fayette-Waterloo
Seneca Falls	Great Lakes Energy Partners	31099230640000	Proper-Poorman 2	1,968	10/9/2003	GD	Fayette-Waterloo
Seneca Falls	Great Lakes Energy Partners	31099230650000	Wise-Bender 2	1,970	12/10/2003	GD	Fayette-Waterloo
Seneca Falls	Great Lakes Energy Partners	31099230750000	Proper-Poorman 1	2,065	10/22/2003	GD	Fayette-Waterloo
Tyre	Great Lakes Energy Partners	31099230410000	Smith-Griggs 2	1,660	11/5/2003	GE	Not Applicable
Tyre	Great Lakes Energy Partners	31099230420000	Smith-Griggs 1	1,663	11/5/2003	GW	Not Applicable
Steuben							
Bath	New York State	31101000930000	State of NY 10-B 2	3,330	8/11/2003	DW	Not Applicable
Caton	Belden & Blake Corporation	31101229630100	Maxwell 1-A	11,502	4/14/2003	DW	Not Applicable
Caton	Fortuna Energy, Inc.	31101229630200	Maxwell 1-B	11,280	10/2/2003	GE	Caton
Caton	Fortuna Energy, Inc.	31101230400000	Harndon 1	11,012	8/12/2003	GW	Whiskey Creek
Erwin	Fairman Drilling Co.	31101228610100	NYS GMA 2-A	10,043	2/6/2003	DW	Not Applicable
Hornby	New York State	31101038960000	State of NY 3	3,344	10/1/2003	GW	Monterey
Troupsburg	Victory Energy Corp.	31101230160000	Fishel 1	5,070	5/20/2003	DW	Not Applicable
Troupsburg	Victory Energy Corp.	31101230790000	Henninger 1	4,728	12/9/2003	DW	Not Applicable
West Union	Richardson Petroleum Corp.	31101230090000	Edwards II 12	1,750	2/27/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230100000	Edwards II 13	1,751	3/5/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230110000	Edwards II 14	1,775	3/12/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230120000	Edwards II 18	1,774	3/20/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230130000	Edwards II 19	1,775	3/18/2003	OD	Beech Hill-Independence
West Union	Yahn & Yahn Inc.	31101230340000	Schultz 3A	1,732	12/23/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230450000	Edwards II 20	1,773	9/8/2003	OD	Beech Hill-Independence

Wells Completed During 2003

Town	Company	API Number	Well Name	TVD	Completion Date	Well Type	Field
Steuben							
West Union	Richardson Petroleum Corp.	31101230460000	Edwards II 21	1,774	9/11/2003	OD	Beech Hill-Independence
West Union	Richardson Petroleum Corp.	31101230470000	Edwards II 15	1,774	9/15/2003	OD	Beech Hill-Independence
West Union	Yahn & Yahn Inc.	31101230890000	Edlind 12	1,798	12/18/2003	OD	Beech Hill-Independence
Tioga							
Owego	Central New York Oil & Gas Co.	31107214240000	Campbell 01	5,031	5/21/2003	MS	Stagecoach
Tompkins							
Enfield	Columbia Natural Resources LLC	31109229980200	Stevenson 1-B	7,987	1/7/2003	DW	Not Applicable
Ithaca	Paleontological Research Institutio	31109230010000	Museum of the Earth A	1,500	3/11/2003	TH	Not Applicable
Ithaca	Paleontological Research Institutio	31109230020000	Museum of the Earth B	1,500	3/17/2003	TH	Not Applicable
Newfield	Phillips Production Co.	31109229970100	Albanese 1-A	9,048	2/26/2003	DW	Not Applicable
Wayne							
Butler	Lenape Resources, Inc.	31117230140000	Everhart 1	3,089	3/17/2003	GW	Not Applicable
Butler	Lenape Resources, Inc.	31117230150000	High 1	3,960	3/13/2003	DW	Not Applicable
Galen	Columbia Natural Resources LLC	31117230370000	Harper 1	3,150	12/13/2003	GW	Pangburn
Wyoming							
Middlebury	Texas Brine Company, LLC	31121233540100	Texas Brine 76a	1,497	7/5/2003	BR	Wyoming
Middlebury	Occidental Chemical Corp	31121234230000	Hooker 134	1,510	8/6/2003	BR	Dale
Middlebury	Occidental Chemical Corp	31121234240000	Hooker 123	1,499	8/19/2003	BR	Dale
Middlebury	Texas Brine Company, LLC	31121235070000	Texas Brine 83	1,450	7/7/2003	BR	Wyoming
Middlebury	Texas Brine Company, LLC	31121235080000	Texas Brine 84	1,453	7/7/2003	BR	Wyoming
Middlebury	Texas Brine Company, LLC	31121235090000	Texas Brine 85	1,465	7/7/2003	BR	Wyoming
Middlebury	Occidental Chemical Corp	31121235140000	Hooker 152	1,265	9/22/2003	BR	Dale
Middlebury	Occidental Chemical Corp	31121235150000	Hooker 150	1,505	9/22/2003	BR	Dale
Middlebury	Occidental Chemical Corp	31121235160000	Hooker W-1	1,188	8/6/2003	BR	Dale
Yates							
Italy	Belden & Blake Corporation	31123227570100	NYS Reforestation Area 1	7,146	7/18/2003	DW	Not Applicable

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Allegany County									
Alfred	0		0	1	1	0	0	0	0
Allen	2,363		52	1	0	0	0	0	0
Alma	7	3,720	694	27	8	166	99	10	45
Almond	1,377		1	1	0	0	0	0	0
Amity	31,480	55	469	2	1	4	0	0	0
Andover	14,590	3,092	387	2	0	102	44	0	0
Bolivar	0	4,340	270,700	0	8	279	337	16	125
Centerville	0		0	0	1	0	0	0	0
Clarksville	400		0	0	0	5	54	0	27
Friendship	10		0	1	0	0	1	0	0
Genesee	1,140	1,860	1,445	4	6	80	101	4	69
Independence	65,363	10,284	30,840	6	1	250	4	18	0
New Hudson	0		0	0	1	0	0	0	0
Rushford	0			3	1	0	0	0	0
Scio	6,174	95	723	3	3	39	136	0	20
Ward	210		0	3	0	0	24	0	6
Wellsville	2,283	2,682	116	0	2	65	38	0	11
Willing	419,152	129	0	4	3	15	37	0	0
Wirt	40	2,007	736	0	2	140	25	0	0
County Total	544,588	28,264	306,162	58	38	1,145	900	48	303
Broome County									
Colesville	0		0	0	1	0	0	0	0
Fenton				0	0	0	0	0	0
Kirkwood	254,382			1	0	0	0	0	0
Maine				0	0	0	0	0	0
Nanticoke				0	0	0	0	0	0
County Total	254,382		0	1	1	0	0	0	0
Cattaraugus County									
Allegany	477	27,570	345,477	7	1	624	293	137	149
Ashford	15,712	1,439		16	4	0	2	0	0
Carrollton	7,567	52,451	4,268	5	0	613	97	5	17
Cold Spring				0	5	0	0	0	0
Conewango	178,687		8	77	2	0	1	0	0
Dayton	166,733		40	41	18	0	0	0	0
East Otto	24,020		152	7	1	0	0	0	0
Ellicottville	3,957		0	9	4	0	0	0	0
Farmersville	170		75	2	0	4	0	0	0
Freedom	5,580	1,596		8	2	1	0	0	0
Great Valley				1	0	0	0	0	0
Hinsdale			33	0	0	4	0	0	0
Leon	277,756		0	81	5	0	0	0	0
Little Valley				2	0	0	0	0	0
Machias	0			1	1	0	0	0	0
Mansfield				1	0	0	0	0	0
Napoli	144			2	0	0	0	0	0
New Albion	16,416			5	12	0	0	0	0
Olean	82,862	3,728	147	6	0	152	89	0	5
Olean City	0			1	0	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Cattaraugus County									
Otto	89,817		101	25	42	0	0	0	0
Perrysburg	10,202		0	12	4	0	0	0	0
Persia	54,745		5	8	83	0	0	0	0
Portville		54		1	0	5	0	0	0
Randolph	98,347	635	115	82	3	1	0	0	0
South Valley	1,271		0	2	0	0	0	0	0
Yorkshire	16,644		7	19	2	0	0	0	0
County Total	1,051,107	87,473	350,428	421	189	1,404	482	142	171
Cayuga County									
Auburn City	5,000			1	0	0	0	0	0
Aurelius	449,512		3,921	145	1	0	0	0	0
Fleming	67,733		693	32	1	0	0	0	0
Ledyard	18			2	0	0	0	0	0
Owasco	0		0	2	1	0	0	0	0
Scipio				1	0	0	0	0	0
Sennett	1,103			2	3	0	0	0	0
Springport	325,226		945	112	6	0	0	0	0
Summerhill	0		0	0	1	0	0	0	0
Throop	6,475			9	0	0	0	0	0
County Total	855,067		5,558	306	13	0	0	0	0
Chautauqua County									
Arkwright	111,537		1,146	119	10	0	0	0	0
Busti	206,807	7,229	2,467	113	14	346	137	0	0
Carroll	131,235		147	50	9	0	3	0	0
Charlotte	95,422		2,077	98	9	0	1	0	0
Chautauqua	529,517		5,101	318	11	0	0	0	0
Cherry Creek	282,989		3,887	106	19	0	0	0	0
Clymer	214,593	2,975	5,932	108	17	3	1	0	0
Dunkirk	60,578		494	23	7	0	0	0	0
Dunkirk City	32,023		194	15	5	0	0	0	0
Ellery	212,225	1,021	3,477	105	15	9	6	0	0
Ellicott	148,048		150	54	0	0	0	0	0
Ellington	400,308		2,789	134	46	0	0	0	0
French Creek	40,978		1,218	49	17	0	0	0	0
Gerry	257,260	5,963	6,397	141	16	10	8	0	0
Hanover	103,068		483	62	21	0	0	0	0
Harmony	215,376		8,028	111	9	0	0	0	0
Jamestown	9,737		6	4	0	0	0	0	0
Kiantone	357,230		581	56	0	0	0	0	0
Mina	78,729		1,737	68	3	0	0	0	0
North Harmony	297,398	2,668	12,298	126	28	10	6	0	0
Poland	237,125	39	53	110	1	0	0	0	0
Pomfret	223,987		879	175	19	0	0	0	0
Portland	200,791		170	131	8	0	0	0	0
Ripley	236,642		494	177	11	0	0	0	0
Sheridan	151,923		627	85	11	0	0	0	0
Sherman	139,102		3,681	80	7	0	0	0	0
Stockton	125,576		380	102	13	0	0	0	0
Villanova	113,212		2,166	78	2	0	0	0	0
Westfield	457,319		1,062	251	16	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Chautauqua County									
County Total	5,670,734	19,895	68,121	3,049	344	378	162	0	0
Chemung County									
Big Flats	4,861,539		1,580	2	1	0	0	0	0
Catlin	6,720,675		6,790	8	1	0	0	0	0
Elmira				1	0	0	0	0	0
Erin	230,718		20,075	2	0	0	0	0	0
Southport	0		0	0	0	0	0	0	0
Van Etten	31,775		0	5	1	0	0	0	0
Veteran	1,400,713		2,498	5	0	0	0	0	0
County Total	13,245,420		30,943	23	3	0	0	0	0
Chenango County									
Otselic				0	0	0	0	0	0
Preston				0	0	0	0	0	0
Smyrna	0		0	0	1	0	0	0	0
County Total	0		0	0	1	0	0	0	0
Cortland County									
Lapeer				0	0	0	0	0	0
Taylor				0	0	0	0	0	0
Virgil	0			0	0	0	0	0	0
County Total	0			0	0	0	0	0	0
Delaware County									
Franklin				0	1	0	0	0	0
Hancock	0		0	0	1	0	0	0	0
County Total	0		0	0	2	0	0	0	0
Erie County									
Alden	60,463		1,014	56	7	0	0	0	0
Amherst	0		0	0	0	0	0	0	0
Aurora	81,304		2	41	17	0	0	0	0
Boston	15,031		110	29	4	0	0	0	0
Brant	153,909		2,048	99	6	0	0	0	0
Buffalo	1,124			2	0	0	0	0	0
Cheektowaga	9,797		6	11	1	0	0	0	0
Clarence	523		1	7	0	0	0	0	0
Colden	5,830		16	12	0	0	0	0	0
Collins	7,169		12	7	4	0	1	0	0
Concord	84,387		330	57	2	0	0	0	0
Eden	123,358		1,698	145	9	0	0	0	0
Elma	94,896		395	54	6	0	0	0	0
Evans	114,406		957	92	13	0	0	0	0
Hamburg	59,449		1	42	15	0	0	0	0
Holland	0		0	4	1	0	0	0	0
Lackawanna	473		0	2	1	0	0	0	0
Lancaster	57,977		39	28	0	0	0	0	0
Marilla	28,059		0	31	7	0	0	0	0
Newstead	83,559		75	53	11	0	0	0	0
North Collins	54,967		18	55	7	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Erie County									
Orchard Park	48,725	93	53	35	4	1	0	0	0
Sardinia	14,454		1	12	0	0	0	0	0
Tonawanda	0			0	1	0	0	0	0
Tonawanda City	0		0	1	1	0	0	0	0
Wales	5,065		50	5	8	0	0	0	0
West Seneca	39,457		0	4	0	0	0	0	0
County Total	1,144,382	93	6,825	884	125	1	1	0	0
Genesee County									
Alabama	18,498		165	21	1	0	0	0	0
Alexander	45,427		351	41	0	0	0	0	0
Batavia	24,637		500	19	1	0	0	0	0
Batavia City	17,201		180	21	0	0	0	0	0
Bergen	666			3	0	0	0	0	0
Bethany	21,070		800	30	1	0	0	0	0
Darien	298,387		12,105	197	12	0	0	0	0
Elba	998		0	3	0	0	0	0	0
Le Roy	29,077			7	3	0	0	0	0
Oakfield	11,026		150	12	0	0	0	0	0
Pavilion	20,587		115	21	3	0	0	0	0
Pembroke	212,268		895	121	0	0	0	0	0
Stafford	281			1	0	0	0	0	0
County Total	700,124		15,261	497	21	0	0	0	0
Livingston County									
Avon	10,392		70	14	2	0	0	0	0
Caledonia	41,843		90	47	2	0	0	0	0
Groveland	0			0	1	0	0	0	0
Leicester	32,963			21	7	0	0	0	0
Nunda	25			1	0	0	0	0	0
Ossian	0			0	1	0	0	0	0
Portage	665			2	0	0	0	0	0
Sparta	0			1	1	0	0	0	0
West Sparta	50			6	0	0	0	0	0
York	32,118		280	48	0	0	0	0	0
County Total	118,056		440	140	14	0	0	0	0
Madison County									
Brookfield				1	0	0	0	0	0
Eaton	10,069		1,820	4	0	0	0	0	0
Lebanon	244,606		7,573	15	5	0	0	0	0
Stockbridge				0	0	0	0	0	0
County Total	254,675		9,393	20	5	0	0	0	0
Montgomery County									
Root	0		0	0	0	0	0	0	0
County Total	0		0	0	0	0	0	0	0
Niagara County									
Lewiston	150			1	0	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Niagara County									
County Total	150			1	0	0	0	0	0
Oneida County									
Sangerfield	125		0	2	1	0	0	0	0
Vernon				0	0	0	0	0	0
County Total	125		0	2	1	0	0	0	0
Onondaga County									
Lysander	0		0	1	1	0	0	0	0
Marcellus	0			0	0	0	0	0	0
County Total	0		0	1	1	0	0	0	0
Ontario County									
Bristol	6,269		12	4	0	0	0	0	0
Canandaigua				1	0	0	0	0	0
East Bloomfield	47,122		30	11	2	0	0	0	0
Geneva	0			0	2	0	0	0	0
Geneva City	0			0	1	0	0	0	0
Gorham	0		0	0	1	0	0	0	0
Hopewell	0			0	0	0	0	0	0
Phelps	0			0	1	0	0	0	0
Richmond	505		16	2	0	0	0	0	0
West Bloomfield	4		0	2	0	0	0	0	0
County Total	53,900		57	20	7	0	0	0	0
Oswego County									
Palermo				0	0	0	0	0	0
Richland	1		0	3	3	0	0	0	0
Schroeppel				0	0	0	0	0	0
West Monroe				1	0	0	0	0	0
Williamstown	0			1	1	0	0	0	0
County Total	1		0	5	4	0	0	0	0
Schuyler County									
Catharine				0	0	0	0	0	0
Dix	278,084		197	1	1	0	0	0	0
Montour	0			0	1	0	0	0	0
Orange	707,091		241	1	2	0	0	0	0
Reading	0			0	1	0	0	0	0
County Total	985,175		438	2	5	0	0	0	0
Seneca County									
Fayette	450,236		4,740	108	2	0	0	0	0
Junius				1	0	0	0	0	0
Lodi	0			0	0	0	0	0	0
Seneca Falls	473		0	1	0	0	0	0	0
Tyre	0		0	0	0	0	0	0	0
Varick	155,755		1,077	44	0	0	0	0	0
Waterloo	0		0	0	1	0	0	0	0
County Total	606,464		5,817	154	3	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Steuben County									
Addison	0		0	0	0	0	0	0	0
Avoca	1,860			2	0	0	0	0	0
Bath	13,812		2	2	0	0	0	0	0
Cameron	0		0	1	1	0	0	0	0
Campbell				0	0	0	0	0	0
Canisteo	0			0	2	0	0	0	0
Caton	44,738		35	2	0	0	0	0	0
Cohocton	92,180			3	1	0	0	0	0
Corning	4,888,436		2,262	3	1	0	0	0	0
Dansville	14,033		10	1	0	0	0	0	0
Erwin	3,853		0	1	1	0	0	0	0
Greenwood	120	99	101	2	0	4	0	0	0
Hartsville	0		0	1	1	0	0	0	0
Hornby	3,270,454		2,177	5	2	0	0	0	0
Howard	50			2	0	0	0	0	0
Jasper	35,266		0	2	5	0	0	0	0
Prattsburg	254,979		983	5	1	0	0	0	0
Pulteney	1,397,571		999	11	1	0	0	0	0
Troupsburg	0		0	0	2	0	0	0	0
Wayne	0			0	1	0	0	0	0
West Union	73,053	21,489	57,225	4	1	185	2	19	0
Woodhull	0		0	0	0	0	0	0	0
County Total	10,090,405	21,588	63,794	47	20	189	2	19	0
Tioga County									
Nichols	54,395		45	5	0	0	0	0	0
Owego	482		0	1	0	0	0	0	0
Tioga	0			0	0	0	0	0	0
County Total	54,877		45	6	0	0	0	0	0
Tompkins County									
Dryden	0			0	1	0	0	0	0
Enfield	0			0	0	0	0	0	0
Newfield	0			0	0	0	0	0	0
County Total	0			0	1	0	0	0	0
Wayne County									
Butler	600			1	2	0	0	0	0
Galen	0			0	0	0	0	0	0
County Total	600			1	2	0	0	0	0
Wyoming County									
Arcade	59,855		130	39	0	0	0	0	0
Attica	1,441			2	2	0	0	0	0
Bennington	107,713		930	86	3	0	0	0	0
Castile	9,650			4	0	0	0	0	0
Covington	36,870		0	21	4	0	0	0	0
Gainesville	0			0	1	0	0	0	0
Genesee Falls				0	1	0	0	0	0
Java	5,741		60	22	1	0	0	0	0
Middlebury	0			0	0	0	0	0	0

Oil and Gas Production by Town in Each County, 2003

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Wyoming County									
Perry	45,633		265	44	4	0	0	0	0
Pike	250			1	0	0	0	0	0
Sheldon	43,478		660	38	0	0	0	0	0
Warsaw	1,184			6	0	0	0	0	0
County Total	311,815		2,045	263	16	0	0	0	0
Yates County									
Barrington	0			0	2	0	0	0	0
Benton	250			3	9	0	0	0	0
Italy	0		0	0	0	0	0	0	0
Jerusalem	81,841			1	2	0	0	0	0
Milo	1,251			1	0	0	0	0	0
Potter	0			0	1	0	0	0	0
Starkey	0			0	1	0	0	0	0
Torrey	0			0	1	0	0	0	0
County Total	83,342		0	5	16	0	0	0	0
State Total	36,025,388	157,313	865,327	5,906	832	3,117	1,547	209	474

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Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Allegany County									
Alfred	210			4	0	0	0	0	0
Allen	2,363		52	1	0	0	0	0	0
Andover	2,816	685	31	0	0	13	1	0	0
Beech Hill-Independence	64,340	10,764	30,580	9	1	248	6	18	0
Browning	0	0	0	0	0	0	64	0	0
Ceres	10	910	6,320	2	2	15	0	0	0
Clarksville	400	0	0	0	0	5	16	0	0
Farmersville	0	0		0	1	0	0	0	0
Ford's Brook	1	39	4	0	2	47	71	0	32
Friendship	10		0	1	0	0	0	0	0
Fulmer Valley	14,867	6,166	731	0	0	169	94	0	11
Gordon Brook	37,654		1,192	5	4	0	0	0	0
Karr Valley	1,377		1	1	0	0	0	0	0
Nile	10	14	140	0	0	14	1	0	0
Not Applicable	212	11	0	0	4	2	38	0	27
Richburg	1,160	10,937	267,111	3	12	628	585	30	227
Rushford	0	0	0	3	1	0	0	0	0
Scio	0	55	0	0	0	4	24	0	6
Sharon	5			26	0	0	0	0	0
Sherry Hill	0	0		0	1	0	0	0	0
State Line	419,152			3	10	0	0	0	0
County Total	544,588	29,582	306,162	58	38	1,145	900	48	303
Broome County									
Ballyhack Creek	254,382			1	0	0	0	0	0
Not Applicable	0	0	0	0	1	0	0	0	0
County Total	254,382	0	0	1	1	0	0	0	0
Cattaraugus County									
Ashford	15,712			15	4	0	0	0	0
Bixby Hill	4,771	1,601		0	0	1	0	0	0
Bradford	89,602	51,874	299,839	2	0	548	243	5	121
Chaffee-Arcade	17,453		7	21	2	0	0	0	0
Chipmunk	1,302	23,226	49,712	9	0	586	110	137	45
Clarksville				1	0	0	0	0	0
Connoisarauley Creek				1	0	0	0	0	0
Dayton	18,423	0	0	6	2	0	0	0	0
Dublin Hollow				1	0	0	0	0	0
Dutch Hill				0	0	0	2	0	0
East Otto	17,239		80	2	0	0	0	0	0
Ellicotville	3,957	0	0	9	4	0	0	0	0
Farmersville		62	75	0	0	4	0	0	0
Five Mile	0	3,379	150	2	0	147	77	0	5
Four Mile	0	3,050	224	0	0	109	49	0	0
Great Valley				1	0	0	0	0	0
Hog Hollow	170			3	1	0	0	0	0
Hotchkiss Hollow				0	5	0	0	0	0
Indian Creek				1	0	0	0	0	0
Jersey Hollow				1	0	0	0	0	0
Lakeshore	858,511	0	209	322	164	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Cattaraugus County									
Little Valley				1	0	0	0	0	0
Mud Creek	1,932	528		0	0	1	0	0	0
Not Applicable	0	0	0	0	6	0	1	0	0
Olean	3	0	0	6	0	8	0	0	0
Pigeon Hill	0	0		5	1	0	0	0	0
Sardinia				1	0	0	0	0	0
Snyders Corners Pool				1	0	0	0	0	0
Utley Brook	22,033	0	132	10	0	0	0	0	0
County Total	1,051,107	83,721	350,428	421	189	1,404	482	142	171
Cayuga County									
Ashland Farms				1	0	0	0	0	0
Auburn	3,444	0	0	4	4	0	0	0	0
Auburn Geothermal	5,000			1	0	0	0	0	0
Not Applicable	0			0	1	0	0	0	0
Summerhill	0	0	0	0	1	0	0	0	0
Wells College	18			1	0	0	0	0	0
West Auburn	846,605	0	5,558	299	7	0	0	0	0
County Total	855,067	0	5,558	306	13	0	0	0	0
Chautauqua County									
Big Inlet Pool	3,268	0	40	1	0	0	0	0	0
Burr Bear Pool	0			0	1	0	0	0	0
Busti	0	6,197	394	4	0	346	137	0	0
Carroll	0	0	0	0	1	0	3	0	0
Cassadaga Creek	2,617	0	0	2	1	0	0	0	0
Clymer	1,899	2,977	1,375	3	0	2	0	0	0
Clymer Hill	0	0	0	0	0	0	1	0	0
Conewango Creek				1	0	0	0	0	0
Ellery	7,166	1,024	1,230	8	3	9	6	0	0
Folsom Creek	686			0	0	1	0	0	0
Fredonia	1			1	0	0	0	0	0
Gerry-Charlotte	50,367	3,741	4,399	15	9	8	8	0	0
Harmony	834	0	505	1	0	1	0	0	0
Kelly Hill	4,573			1	0	0	0	0	0
Lakeshore	5,521,389	20	54,733	2997	320	1	0	0	0
Mud Creek	8			1	0	0	0	0	0
North Harmony	40,921	2,514	3,785	10	7	10	6	0	0
Not Applicable	20	0	1,630	0	2	0	1	0	0
Sprague Hill	36,985	0	30	4	0	0	0	0	0
County Total	5,670,734	16,473	68,121	3,049	344	378	162	0	0
Chemung County									
County Line	244,133		90	2	0	0	0	0	0
Doolittle Hill				1	0	0	0	0	0
Elmira				1	0	0	0	0	0
Langdon Hill	230,718		20,075	2	0	0	0	0	0
Not Applicable	0		0	0	1	0	0	0	0
Quackenbush Hill	5,921,344		2,218	3	1	0	0	0	0
Seeley Creek	0	0	0	0	0	0	0	0	0
Terry Hill South	1,400,713		2,498	5	1	0	0	0	0
Van Etten	31,775			4	0	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Chemung County									
Wilson Hollow	5,416,737		6,062	5	0	0	0	0	0
County Total	13,245,420	0	30,943	23	3	0	0	0	0
Chenango County									
Not Applicable	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	1	0	0	0	0
Cortland County									
Not Applicable	0	0		0	0	0	0	0	0
County Total	0	0		0	0	0	0	0	0
Delaware County									
Not Applicable	0	0	0	0	2	0	0	0	0
County Total	0	0	0	0	2	0	0	0	0
Erie County									
Akron	27,472	0	50	23	5	0	0	0	0
Alden-Lancaster	180,651	0	1,085	130	14	0	0	0	0
Bockhahn				0	0	0	0	0	0
Brant-Eden	322,433	0	4,210	299	16	0	0	0	0
Buffalo	6,441	0	0	11	4	0	0	0	0
Buffalo Creek	27,338	0	0	27	4	0	0	0	0
Central Wales				0	7	0	0	0	0
Chaffee-Arcade	1,592		1	1	0	0	0	0	0
Chestnut Ridge	200			1	0	0	0	0	0
Clarence	31			1	1	0	0	0	0
Concord	71,144	0	185	50	1	0	0	0	0
Concord-Onondaga	0			0	1	0	0	0	0
Cowlesville	7,361	0	0	9	3	0	0	0	0
East Aurora	76,736	0	2	41	14	0	0	0	0
Elma	100,732	0	395	48	6	0	0	0	0
Glenwood	4,953	0	16	10	1	0	0	0	0
Lakeshore	835			4	0	0	0	0	0
Lakeview	97,415	0	603	86	27	0	0	0	0
North Collins	67,801	0	176	58	7	0	1	0	0
Not Applicable	1	0	0	1	3	0	0	0	0
Orchard Park-Hamburg	81,656	1,822	54	55	6	0	0	0	0
Sardinia	20,054	0	0	16	0	0	0	0	0
South Wales				1	0	0	0	0	0
Travers		93		0	0	1	0	0	0
Wales	4,215	0	50	2	2	0	0	0	0
West Seneca	45,321	0	0	10	3	0	0	0	0
County Total	1,144,382	1,915	6,825	884	125	1	1	0	0
Genesee County									
Akron	200			1	0	0	0	0	0
Alden-Lancaster	267,697	0	11,676	148	7	0	0	0	0
Alexander	9,568	0	26	7	0	0	0	0	0
Bergen	666			3	0	0	0	0	0
Bethany	21,070	0	800	29	1	0	0	0	0
Danley Corners	33,804	0	115	25	2	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Genesee County									
Ellicott Creek	0			0	2	0	0	0	0
Huron Creek	236,385	0	1,695	172	1	0	0	0	0
Indian Falls	80,788	0	835	80	2	0	0	0	0
Not Applicable				2	0	0	0	0	0
Pavilion	5			6	1	0	0	0	0
Roanoke	7,021	0	10	3	0	0	0	0	0
Uhley Corners-Caledonia	42,919	0	105	21	5	0	0	0	0
County Total	700,124	0	15,261	497	21	0	0	0	0
Livingston County									
Avon	10,392	0	70	14	2	0	0	0	0
Dansville	50			7	0	0	0	0	0
Finnegan Hill	12,806	0	0	10	0	0	0	0	0
Groveland	0			0	1	0	0	0	0
Hunt Hollow	690			3	1	0	0	0	0
Leicester	7,341			12	5	0	0	0	0
Not Applicable	0	0		0	0	0	0	0	0
Silver Lake	25,639			10	2	0	0	0	0
Sparta	0			0	1	0	0	0	0
Uhley Corners-Caledonia	61,138	0	370	84	2	0	0	0	0
County Total	118,056	0	440	140	14	0	0	0	0
Madison County									
Bradley Brook	224,435	0	9,293	17	1	0	0	0	0
Lebanon	30,240	0	100	2	2	0	0	0	0
Not Applicable	0	0	0	0	2	0	0	0	0
Sangerfield				1	0	0	0	0	0
County Total	254,675	0	9,393	20	5	0	0	0	0
Montgomery County									
Not Applicable	0	0	0	0	0	0	0	0	0
County Total	0	0	0	0	0	0	0	0	0
Niagara County									
Sanborn	150			1	0	0	0	0	0
County Total	150			1	0	0	0	0	0
Oneida County									
Not Applicable	0	0	0	0	1	0	0	0	0
Sangerfield	125			2	0	0	0	0	0
County Total	125	0	0	2	1	0	0	0	0
Onondaga County									
Baldwinsville				1	0	0	0	0	0
Cross Lake	0	0	0	0	1	0	0	0	0
Not Applicable	0			0	0	0	0	0	0
County Total	0	0	0	1	1	0	0	0	0
Ontario County									
Benton Run	0			0	2	0	0	0	0
East Bloomfield	47,122	0	30	12	2	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Ontario County									
Melvin Hill	0			0	1	0	0	0	0
Not Applicable	0	0	0	0	2	0	0	0	0
Vincent				2	0	0	0	0	0
West Bloomfield	6,694	0	12	5	0	0	0	0	0
West River	0	0	0	0	0	0	0	0	0
Whetstone Brook	84		16	1	0	0	0	0	0
County Total	53,900	0	57	20	7	0	0	0	0
Oswego County									
Bass Lake				1	0	0	0	0	0
Kasoag	0	0		0	1	0	0	0	0
Little France				1	0	0	0	0	0
Not Applicable				0	0	0	0	0	0
Pulaski	1	0	0	3	3	0	0	0	0
County Total	1	0	0	5	4	0	0	0	0
Schuyler County									
County Line	278,084		197	1	0	0	0	0	0
Moreland				0	1	0	0	0	0
Not Applicable	0	0		0	3	0	0	0	0
Sexton Hollow	0			0	1	0	0	0	0
Sugar Hill	707,091		241	1	0	0	0	0	0
County Total	985,175	0	438	2	5	0	0	0	0
Seneca County									
Fayette-Waterloo	598,897	0	5,817	149	1	0	0	0	0
Geneva	0	0	0	0	1	0	0	0	0
Neilson Road Pool	4,493			1	0	0	0	0	0
Not Applicable	0	0	0	0	1	0	0	0	0
Reeder Creek	2,401			1	0	0	0	0	0
Rose Hill	200			1	0	0	0	0	0
Seneca Falls	473			1	0	0	0	0	0
Whiskey Hill				1	0	0	0	0	0
County Total	606,464	0	5,817	154	3	0	0	0	0
Steuben County									
Andover		502	101	1	0	4	0	0	0
Avoca	1,860			2	0	0	0	0	0
Beech Hill-Independence	69,053	24,872	57,155	3	0	184	2	19	0
Caton	21,451	0	0	1	0	0	0	0	0
Colonel Bills Creek	0			0	1	0	0	0	0
Coopers Plains	0		0	0	1	0	0	0	0
County Line	0			0	1	0	0	0	0
Crosby Creek	0		0	0	1	0	0	0	0
Cutler Creek	672,927		622	1	0	0	0	0	0
East Harrison				0	1	0	0	0	0
Glodes Corners Road	615,157		759	12	1	0	0	0	0
Howard	50			1	0	0	0	0	0
Hungry Hollow				1	0	0	0	0	0
Jackson Hill	120			1	0	0	0	0	0
Jasper	0			1	1	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Steuben County									
Milwaukee Creek	0	0		0	1	0	0	0	0
Muck Farm	1,037,393		1,223	4	0	0	0	0	0
Northwest Harrison				1	0	0	0	0	0
Not Applicable	4,000	576	70	0	5	1	0	0	0
Painted Post	0		0	0	1	0	0	0	0
Pine Hill	92,180			3	1	0	0	0	0
Purdy Creek				1	0	0	0	0	0
Quackenbush Hill	4,215,509		1,640	2	0	0	0	0	0
Rathbone	0	0	0	0	1	0	0	0	0
Riverside	0			0	1	0	0	0	0
Stone Hill	14,033	18	10	1	0	0	0	0	0
Sullivan Park	3,853			1	0	0	0	0	0
Thomas Corners	13,812		2	2	0	0	0	0	0
Whiskey Creek	23,287	0	35	1	0	0	0	0	0
Wilson Hollow	3,270,454		2,177	5	0	0	0	0	0
Woodhull	0	0	0	0	0	0	0	0	0
Wyckoff	35,266	0	0	2	3	0	0	0	0
County Total	10,090,405	25,968	63,794	47	20	189	2	19	0
Tioga County									
Not Applicable	0			0	0	0	0	0	0
Stagecoach	54,877	0	45	6	0	0	0	0	0
County Total	54,877	0	45	6	0	0	0	0	0
Tompkins County									
Not Applicable	0	0		0	1	0	0	0	0
County Total	0	0		0	1	0	0	0	0
Wayne County									
Butler Creek	600			1	0	0	0	0	0
Not Applicable	0	0		0	2	0	0	0	0
Pangburn	0			0	0	0	0	0	0
County Total	600	0		1	2	0	0	0	0
Wyoming County									
Alden-Lancaster	15,982	0	5	7	0	0	0	0	0
Attica	1,241			1	2	0	0	0	0
Cascade Brook	0			0	1	0	0	0	0
Castile	5,210			2	1	0	0	0	0
Chaffee-Arcade	33,931		55	32	0	0	0	0	0
Cowlesville	704			1	0	0	0	0	0
Danley Corners	91,227	0	925	79	3	0	0	0	0
Dutch Hollow	200			1	0	0	0	0	0
Java	5,940	0		25	1	0	0	0	0
Leicester	69,316	0	265	59	4	0	0	0	0
Northwoods	24,604	0	75	2	0	0	0	0	0
Not Applicable	0			0	1	0	0	0	0
Pike Corners	250			1	0	0	0	0	0
Sheldon	41,857	0	720	37	0	0	0	0	0
Silver Lake	18,730	0	0	12	3	0	0	0	0
Tozier's Corners	2,542	0	0	2	0	0	0	0	0

Oil and Gas Production by Field in Each County, 2003

Field	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Wyoming County									
Wyoming	81	0		2	0	0	0	0	0
County Total	311,815	0	2,045	263	16	0	0	0	0
Yates County									
Guyanoga Valley	81,841			1	0	0	0	0	0
North Penn Yan	250	0		3	9	0	0	0	0
Not Applicable	0	0	0	0	5	0	0	0	0
South Penn Yan	1,251			1	1	0	0	0	0
Sugar Creek	0			0	1	0	0	0	0
County Total	83,342	0	0	5	16	0	0	0	0
State Total	36,025,388	157,659	865,327	5,906	832	3,117	1,547	209	474

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Oil and Gas Production by Formation in Each County, 2003

Formation	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Allegany County									
Bradford		100	1,000	0	0	1	0	0	0
Clarksville	160	0	0	0	0	2	13	0	0
Fulmer Valley	76,050	16,136	30,896	6	0	383	86	18	9
Marcellus	1,377		1	2	0	0	0	0	0
Medina	2,373		52	4	0	0	0	0	0
None Specified	362	94	6	0	2	4	46	0	27
Not Applicable	0	0	1	0	0	0	1	0	2
Onondaga	0	0	0	0	3	0	0	0	0
Oriskany	456,806		1,192	8	15	0	0	0	0
Penny	578	268	78	1	2	19	4	0	0
Penny & Fulmer Valley	4,843	886	259	2	1	22	0	0	0
Richburg	1,186	11,608	272,144	4	13	686	556	30	181
Richburg-Waugh & Porter		65	96	0	0	2	0	0	0
Scio	0	55	0	0	0	4	88	0	6
Upper Devonian	617	223	147	28	2	4	0	0	0
Upper Devonian Shale				1	0	0	0	0	0
Waugh & Porter	235	147	291	2	0	18	106	0	78
County Total	544,588	29,582	306,162	58	38	1,145	900	48	303
Broome County									
Black River	254,382			1	0	0	0	0	0
None Specified	0	0	0	0	1	0	0	0	0
Not Applicable	0	0	0	0	0	0	0	0	0
County Total	254,382	0	0	1	1	0	0	0	0
Cattaraugus County									
Akron	75			2	1	0	0	0	0
Bass Island	7,006			1	1	0	0	0	0
Bradford	576	12,457	52,601	4	0	382	218	0	25
Bradford & Chipmunk	260	9,172	359	0	0	63	0	0	8
Bradford 1st & 2nd		0	0	0	0	0	4	0	0
Bradford 1st & Chipmunk	0	579	1	0	0	6	0	0	0
Bradford 2nd & 3rd	200	200	420	0	0	7	0	2	0
Bradford Second	161	7,760	261	0	0	12	9	0	0
Bradford Third	1	6,813	403	0	0	118	47	0	4
Chipmunk	4,191	17,270	3,574	4	0	407	92	10	25
Chipmunk & Bradford 2nd	496	6,946	46,863	0	0	221	6	127	17
Chipmunk & Bradford 3rd	0	156	9	1	0	8	1	0	0
Chipmunk & Harrisburg			4,654	0	0	0	0	0	2
Chipmunk, Bradford 1st &	51	5,979	0	0	0	59	0	0	0
Chipmunk, Bradford 2nd	1,315	12,359	240,542	0	0	100	90	3	90
Grimsby	51,073	0	30	3	4	0	0	0	0
Harrisburg		199		0	0	0	2	0	0
Medina	871,436	291	421	383	172	1	0	0	0
None Specified	20	179	20	3	3	6	10	0	0
Not Applicable		123	12	0	0	1	0	0	0
Onondaga	102,180	2,689	0	7	2	2	2	0	0
Onondaga-Bass Island	584	0	0	1	0	0	0	0	0
Oriskany	700	96		8	0	0	0	0	0
Theresa				1	0	0	0	0	0

Oil and Gas Production by Formation in Each County, 2003

Formation	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Cattaraugus County									
Upper Devonian	201	454	257	1	5	11	1	0	0
Upper Devonian Shale				0	1	0	0	0	0
Whirlpool	10,581			2	0	0	0	0	0
County Total	1,051,107	83,721	350,428	421	189	1,404	482	142	171
Cayuga County									
Black River	5,000			1	0	0	0	0	0
None Specified	0			0	3	0	0	0	0
Not Applicable	0			0	1	0	0	0	0
Onondaga	0			0	1	0	0	0	0
Oriskany	0	0	0	0	1	0	0	0	0
Queenston	850,067	0	5,558	305	7	0	0	0	0
County Total	855,067	0	5,558	306	13	0	0	0	0
Chautauqua County									
Akron	0	12	0	0	1	1	0	0	0
Bass Island	86,216	5,738	11,004	27	12	23	19	0	0
Bass Island/Medina	1,478	0	0	0	0	1	0	0	0
Devonian Shale	28,009	114	180	21	4	1	0	0	0
Glade	0	5,939	392	4	0	340	128	0	0
Grimsby	109,988	0	710	24	2	0	0	0	0
Lockport	2,762	0	0	2	0	0	0	0	0
Medina	5,348,981	20	53,583	2938	315	0	0	0	0
None Specified	0	258	2	1	3	6	12	0	0
Not Applicable	0	0	0	0	0	0	0	0	0
Onondaga	52,046	4,392	320	13	4	6	1	0	0
Perrysburg	0	0	1,630	0	0	0	1	0	0
Syracuse	0	0	0	0	0	0	1	0	0
Theresa	0			0	1	0	0	0	0
Tully	22,798	0	230	8	0	0	0	0	0
Upper Devonian	2,823	0	0	6	1	0	0	0	0
Whirlpool	15,633	0	70	5	1	0	0	0	0
County Total	5,670,733	16,473	68,121	3,049	344	378	162	0	0
Chemung County									
Black River	13,213,650	0	30,943	17	2	0	0	0	0
Marcellus				1	0	0	0	0	0
None Specified	0		0	0	1	0	0	0	0
Not Applicable	0			0	0	0	0	0	0
Oriskany	31,775			5	0	0	0	0	0
County Total	13,245,420	0	30,943	23	3	0	0	0	0
Chenango County									
None Specified	0	0	0	0	1	0	0	0	0
Not Applicable				0	0	0	0	0	0
County Total	0	0	0	0	1	0	0	0	0
Cortland County									
Not Applicable	0	0		0	0	0	0	0	0
Tully				0	0	0	0	0	0

Oil and Gas Production by Formation in Each County, 2003

Formation	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Cortland County									
County Total	0	0		0	0	0	0	0	0
Delaware County									
None Specified	0	0	0	0	1	0	0	0	0
Not Applicable				0	1	0	0	0	0
County Total	0	0	0	0	2	0	0	0	0
Erie County									
Akron	12,220	0	150	18	2	0	1	0	0
Medina	1,106,103	1,822	6,657	847	111	0	0	0	0
None Specified	200	0	0	0	0	0	0	0	0
Not Applicable				0	0	0	0	0	0
Onondaga	25,858	93	18	18	9	1	0	0	0
Upper Devonian	1		0	1	0	0	0	0	0
Upper Devonian Shale				0	3	0	0	0	0
County Total	1,144,382	1,915	6,825	884	125	1	1	0	0
Genesee County									
Medina	700,124	0	15,261	497	19	0	0	0	0
Not Applicable				0	0	0	0	0	0
Onondaga	0			0	2	0	0	0	0
County Total	700,124	0	15,261	497	21	0	0	0	0
Livingston County									
Hamilton				3	0	0	0	0	0
Marcellus	50			3	0	0	0	0	0
Medina	118,006	0	440	134	14	0	0	0	0
None Specified	0	0		0	0	0	0	0	0
County Total	118,056	0	440	140	14	0	0	0	0
Madison County									
Herkimer	51,319	0	261	3	0	0	0	0	0
Herkimer-Oneida	30,240	0	100	2	1	0	0	0	0
None Specified	0	0	0	0	1	0	0	0	0
Not Applicable				0	0	0	0	0	0
Oneida	6,328	0	133	2	2	0	0	0	0
Oneida-Oswego	160,804	0	8,436	11	0	0	0	0	0
Onondaga	0	0	0	0	1	0	0	0	0
Tully	5,984	0	463	2	0	0	0	0	0
County Total	254,675	0	9,393	20	5	0	0	0	0
Montgomery County									
None Specified	0	0	0	0	0	0	0	0	0
County Total	0	0	0	0	0	0	0	0	0
Niagara County									
Medina	150			1	0	0	0	0	0
County Total	150			1	0	0	0	0	0

Oil and Gas Production by Formation in Each County, 2003

Formation	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Oneida County									
Herkimer	125	0	0	2	1	0	0	0	0
Not Applicable				0	0	0	0	0	0
County Total	125	0	0	2	1	0	0	0	0
Onondaga County									
Not Applicable	0			0	0	0	0	0	0
Queenston				1	0	0	0	0	0
Trenton	0	0	0	0	1	0	0	0	0
County Total	0	0	0	1	1	0	0	0	0
Ontario County									
Black River	0	0	0	0	1	0	0	0	0
Medina	53,900	0	57	20	2	0	0	0	0
Not Applicable	0	0	0	0	0	0	0	0	0
Queenston	0			0	4	0	0	0	0
County Total	53,900	0	57	20	7	0	0	0	0
Oswego County									
Not Applicable				0	0	0	0	0	0
Trenton	1	0	0	5	4	0	0	0	0
County Total	1	0	0	5	4	0	0	0	0
Schuyler County									
Black River	985,175		438	2	3	0	0	0	0
None Specified	0			0	1	0	0	0	0
Not Applicable	0	0		0	1	0	0	0	0
County Total	985,175	0	438	2	5	0	0	0	0
Seneca County									
Niagara	0	0	0	0	1	0	0	0	0
None Specified	0	0		0	1	0	0	0	0
Not Applicable	0	0	0	0	0	0	0	0	0
Queenston	599,570	0	5,817	152	1	0	0	0	0
Rochester Shale	2,401			1	0	0	0	0	0
Sodus Shale	4,493			1	0	0	0	0	0
County Total	606,464	0	5,817	154	3	0	0	0	0
Steuben County									
Black River	9,948,358	0	6,456	29	5	0	0	0	0
Fulmer Valley	71,447	25,089	57,207	4	1	185	2	19	0
Marcellus	1,860			2	0	0	0	0	0
None Specified	0			0	1	0	0	0	0
Not Applicable	1,606	459	44	0	1	1	0	0	0
Onondaga	66,964	18	12	6	1	0	0	0	0
Oriskany	50	0	0	4	8	0	0	0	0
Oswego	0			0	1	0	0	0	0
Penny	120			1	0	0	0	0	0
Penny & Fulmer Valley		402	75	0	0	3	0	0	0
Rhinestreet	0	0	0	0	1	0	0	0	0
Tully	0			1	0	0	0	0	0
Upper Devonian	0			0	1	0	0	0	0

Oil and Gas Production by Formation in Each County, 2003

Formation	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Steuben County									
County Total	10,090,405	25,968	63,794	47	20	189	2	19	0
Tioga County									
Helderberg	50,025	0	30	5	0	0	0	0	0
None Specified	0			0	0	0	0	0	0
Not Applicable	0			0	0	0	0	0	0
Oriskany	4,852	0	15	1	0	0	0	0	0
County Total	54,877	0	45	6	0	0	0	0	0
Tompkins County									
None Specified	0			0	1	0	0	0	0
Not Applicable	0	0		0	0	0	0	0	0
County Total	0	0		0	1	0	0	0	0
Wayne County									
Not Applicable	0	0		0	1	0	0	0	0
Trenton	600			1	1	0	0	0	0
County Total	600	0		1	2	0	0	0	0
Wyoming County									
Akron	2,542	0	0	2	0	0	0	0	0
Devonian Shale	250			1	0	0	0	0	0
Grimsby	2,479			1	0	0	0	0	0
Little Falls	17,955	0	75	1	0	0	0	0	0
Medina	281,740	0	1,970	256	14	0	0	0	0
Theresa	6,649	0	0	1	1	0	0	0	0
Upper Devonian	200			1	0	0	0	0	0
Whirlpool				0	1	0	0	0	0
County Total	311,815	0	2,045	263	16	0	0	0	0
Yates County									
Black River	81,841			1	2	0	0	0	0
Medina	0			0	2	0	0	0	0
Medina-Queenston	0			0	1	0	0	0	0
None Specified	0	0	0	0	1	0	0	0	0
Not Applicable	0	0	0	0	0	0	0	0	0
Queenston	1,501	0		4	10	0	0	0	0
County Total	83,342	0	0	5	16	0	0	0	0
State Total	36,025,388	157,659	865,327	5,906	832	3,117	1,547	209	474

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Mined Land Reclamation Appendices

Mining Permits Issued During 2003 ^{1,2}	103
Mines with Final Reclamation Completed During 2003 ^{1,2}	121
Mine Commodities, 2003 ^{1,2}	

- 1 The word “Part” under the “Town” column means the mine is located in more than one town.
- 2 Some mines do not have a formal name to list under the “Mine Name” column.

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Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Albany						
Berne	Heldeberg Bluestone & Marble Inc	40806	Grippy Quarry	08/13/03	New	30
Bethlehem	Bethlehem, Town of	40023	Rupert Road Pit	05/12/03	Renewal	9
Bethlehem	Callanan Industries Inc	40312	Rupert Road Pit	12/03/03	Renewal	10
Bethlehem	James H Maloy Inc	40035	Rupert Road Pit	08/13/03	Renewal	5
Coeymans	Lafarge North America Cement	40032	Ravena Quarry	08/20/03	Renewal	759
Cohoes	Norlite Corp	40002	Norlite-Cohoes Shale/Clay Pit	07/10/03	Renewal	78
Colonie	Constantine Construction & Farm I	40420	Constantine Construction	03/31/03	Renewal	4
Colonie	James H Maloy Inc	40036	Dennis Pit	09/12/03	Renewal	9
Guilderland	Pustolka, Thomas Jr	40315	Pustolka Pit	09/05/03	Renewal	10
Allegany						
Alfred	Buffalo Crushed Stone Inc	90004	Alfred Sand And Gravel	03/27/03	Renewal	114
Alfred	Buffalo Crushed Stone Inc	90051	Alfred Station Sand And Gravel Plant	02/21/03	Renewal	32
Almond	Allegany County DPW	90003	Almond Pit	12/17/03	Renewal	20
Almond	Birdsall, Town of	90295	Wyant Pit	06/20/03	Modification	4
Almond	Hornellsville, Town of	90131	Milliken Gravel Pit	11/19/03	Renewal	6
Almond	Skuba, Kenneth P	90517	Skuba Construction Materials Mine	10/02/03	Renewal	45
Amity	Amity, Town of	90914	Winterhalter Gravel Bar	11/03/03	New	1
Angelica	Angelica, Town of	90624	Angelica Creek - West	01/10/03	Renewal	3
Belfast	Belfast Gravel Products Inc	90679	Belfast Road Site	07/31/03	Modification	28
Belfast	Belfast, Town of	90688	Genesee River Bar Mine	02/24/03	Renewal	7
Clarksville	Clarksville, Town of	90033	Town Gravel Pit	09/03/03	Renewal	16
Clarksville	Rondor Construction Products Inc	90194	Wolf Creek Rondor Pit	02/24/03	Renewal	4
Hume	Allegany County DPW	90590	Fillmore/Genesee River	11/10/03	Renewal	18
Hume	Hume, Town of	90039	Hume Town Pit #2	12/10/03	Renewal	5
Hume	Parmenter, Timothy	90365	Parmenter Mine	12/16/03	Modification	4
Rushford	Rushford, Town of	90379	Town Of Rushford Gravel Pit	03/06/03	Renewal	14
Ward	Borer, John	90714	Belmont Gravel Pit	10/10/03	Modification	1
Wellsville	Otis Eastern Service Inc	90911	Trapping Brook	03/25/03	New	4
Broome						
Dickinson	Tri-City Highway Products, Inc.	70121	Broad Street Industrial Park	04/21/03	Modification	11
Fenton	Southern Tier Stone Products LLC	70639	Rte 369 Pit	06/04/03	Renewal	40
Fenton	Tri-City Highway Products, Inc.	70503	Yary's Quarry, Rt. 369	04/21/03	Modification	29
Kirkwood	Alfred Gorick Co Inc	70694	Route 11 Pit - South Of Rt. 11 By Chur	05/29/03	Modification	17

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Broome						
Kirkwood	Gorick Construction Co., Inc.	70429	Klepfer Elkay Mine - Track Drive	01/06/03	Modification	15
Lisle	Donenko Stone & Gravel	70050	Howland Farm Mine	02/14/03	Modification	15
Lisle	F S Lopke Contracting Inc	70441	Johnson Gravel Mine - 475 High Street	04/09/03	Renewal	4
Lisle	Fletcher Gravel Co Inc	70724	Lisle Gravel Mine - NYS Route 11	04/17/03	Modification	20
Sanford	Devonian Stone Of New York Inc	70830	Amendola Bluestone Quarry	04/11/03	Modification	5
Sanford	Indian Country Inc	70783	Frank Kamp Quarry - Boskett Road	11/26/03	Renewal	15
Sanford	Schaeffer Enterprises Of Deposit, I	70838	McClure Pit	01/23/03	New	5
Windsor	Damascus 535 Quarry & Stone Pro	70016	Broome County Quarry, Ostrander Hill	12/17/03	Renewal	24
Windsor	Durso, Kalman S.	70833	Stonemakers Quarry - Kent Street	05/12/03	New	3
Windsor	Indian Country Inc	70846	Frank Kamp Town Line Quarry	01/06/03	New	5
Cattaraugus						
Allegany	I A Construction Corp	90019	Lippert Gravel Pit	06/25/03	Renewal	94
Allegany	Kinley Corp. DbA Kinley Sand & G	90725	Rasey Gravel	05/16/03	Modification	1
Allegany	Ungermann Excavating Inc	90064	Birch Run Pit	06/23/03	Renewal	28
Dayton	Country Side Sand & Gravel Inc	90044	Country Side Site	04/10/03	Renewal	220
Dayton	Hanson Aggregates New York Inc	90002	South Dayton - Wesley	04/28/03	Renewal	5
East Otto	East Otto, Town of	90681	Thompson Road Gravel Pit	06/23/03	Renewal	9
Farmersville	Buffalo Crushed Stone Inc	90569	Lake Chenango	10/23/03	Renewal	15
Freedom	Lafarge North America Inc	90028	Freedom Pit	04/01/03	Renewal	149
Great Valley	Gernatt Asphalt Products Inc	90547	Nannen Gravel Mine	08/12/03	Renewal	12
Little Valley	Little Valley Sand & Gravel	90905	NYS Route 353 Pit	05/05/03	New	5
Little Valley	Pease, Robert	90448	Pease Gravel Mine	08/11/03	Renewal	5
Mansfield	Little Valley Sand & Gravel	90220	Shale Mine	04/14/03	Renewal	3
Napoli	Little Valley Sand & Gravel	90080	Rickert Pit	10/02/03	Renewal	6
New Albion	Little Valley Sand & Gravel	90098	Little Valley Sand And Gravel Mine	05/09/03	Modification	28
Otto	Otto, Town of	90376	Town Mine	01/08/03	Renewal	5
Persia	Gernatt Asphalt Products Inc	90061	Point Peter Road Pit	05/09/03	Renewal	19
Portville	I A Construction Corp	90120	Portville Sand And Gravel	04/07/03	Renewal	131
Yorkshire	Yorkshire Materials, Inc.	90556	Yorkshire Materials Mine	01/10/03	Renewal	9
Cayuga						
Locke	Lewbro Ready Mix Inc	70738	Mine 2 - NYS Route 38	03/04/03	Renewal	21
Moravia	Suit-Kote Corp	70530	Moravia Mine - Route 38-A	04/21/03	Renewal	19
Sennett	Robinson Concrete Inc	70006	Franklin St Pit - Franklin St. Road	07/08/03	Renewal	14

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Cayuga						
Sennett	Still Meadow Nursery Inc	70805	Scholte Mine #3 - Depot Road	04/24/03	Renewal	2
Springport	Hanson Aggregates New York Inc	70025	Oakwood Quarry	07/16/03	Renewal	74
Summerhill	Summerhill, Town of	70661	Reynolds Pit - NYS Route 41-A	03/13/03	Renewal	8
Chautauqua						
Carroll	Carroll, Town of	90411	Cameron Mine	11/19/03	Renewal	10
Carroll	Maple Grove Farms	90325	Maple Grove Farms Mine	10/03/03	Renewal	4
Charlotte	Lebaron, Teddy & Beverly	90720	Snobelt Farms Gravel Mine	11/12/03	New	2
Charlotte	Tri-James Services Inc	90635	Merle Goot Gravel Mine	05/13/03	Modification	9
Chautauqua	Bittinger, Joseph Jr	90683	Bittinger Pit #1	05/22/03	Renewal	2
Clymer	Clymer, Town of	90211	Bakerink Pit	04/08/03	Renewal	10
Clymer	Tewinkle, Tracy	90510	Tewinkle Pit	08/11/03	Renewal	7
Ellery	Chautauqua County DPW	90505	Ellery Earth Borrow Mine	09/22/03	Renewal	17
Ellington	Desborough, Philip A	90217	Ellington Gravel Products	10/10/03	Renewal	2
French Creek	Peek'n Peak Recreation Inc	90404	Legters Gravel Pit	10/02/03	Renewal	9
Gerry	Tri-James Services Inc	90262	Maloy Farm Gravel Mine	02/19/03	Modification	46
Kiantone	Kingsview Enterprises Inc	90128	Riverside Gravel Pit	11/10/03	Modification	22
Kiantone	Tri-James Services Inc	90112	Kiantone Gravel Pit	11/05/03	Modification	12
Mina	Beckerink, Matthew R	90580	Beckerink Gravel Pit	05/13/03	Renewal	3
Pomfret	Chautauqua County	90204	Morse Mine	07/03/03	Renewal	10
Pomfret	Dunkirk Power LLC	90552	Dunkirk SWMF Borrow Site	01/08/03	Renewal	46
Pomfret	Gernatt Asphalt Products Inc	90315	Hubbard Pit	09/02/03	Modification	6
Stockton	Masiker, Emery R	90493	Masiker Sand & Gravel Mine	07/17/03	Renewal	10
Villanova	Pacos, David J	90407	Rock Ridge Mine	10/23/03	Renewal	9
Villanova	Taylor, Warren L	90919	Warren Taylor Gravel Pit	09/15/03	New	2
Chemung						
Big Flats	Bowers, David	80712	Bowers Topsoil Pit	08/13/03	Renewal	25
Big Flats	Cold Spring Construction Co	80806	Stewart Borrow Pit	04/07/03	New	5
Big Flats	Vanderhoff, Larry	80662	Big Flats Pit	07/17/03	Modification	8
Catlin	A L Blades & Sons Inc	80212	Benedict Gravel Mine	06/25/03	Modification	16
Catlin	A L Blades & Sons Inc	80807	Easling Mine	06/16/03	New	5
Chemung	Porter's Concrete Service Inc	80647	Chemung Mine	08/04/03	Renewal	22
Erin	Chemung County DPW	80357	Chemung Co, Farm	07/25/03	Renewal	9

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Chenango						
Afton	Indian Country Inc	70698	Hall Rd. Mine	01/06/03	Renewal	8
Afton	Southern Tier Stone Products LLC	70739	NYS Route 7 Pit	05/01/03	Modification	4
Afton	Warren, Lloyd	70674	Warren's Pit, Algerine Street	04/29/03	Renewal	33
Bainbridge	Clark Companies	70505	Kelly Pit - State Route 8	07/31/03	Renewal	13
Greene	Alfred Gorick Co Inc	70431	Country View Mine - River Road/Hogs	01/29/03	Modification	14
Greene	Tri-City Highway Products, Inc.	70395	Brisben Pit - Co Route 32	04/21/03	Renewal	7
New Berlin	Orzeck, Andrew and Joseph	70483	Orzeck Pit - NYS Route 8	01/28/03	Modification	3
North Norwich	Chenango County Department of P	70046	Stackhouse Pit - NYS Route 12	09/01/03	Renewal	33
Norwich	Burton F Clark Inc	70108	Hymer's Gravel Pit - NYS Route 12	07/10/03	Renewal	17
Norwich	Diversified Gravel Mine LLC	70199	Diversified Gravel Mine	11/24/03	Modification	13
Clinton						
Altona	Deyo, Todd	50948	Deyo Mine-Altona	07/10/03	New	5
Ausable	Ausable, Town of	50945	Dry Bridge Road Pit	05/02/03	New	3
Ausable	Jay, Town of	50299	Harkness Pit	05/09/03	Renewal	5
Ausable	Steven E Fuller Excavating Inc	50057	Grasshopper Farm Pit	02/06/03	Renewal	12
Beekmantown	Lake City Gravel Inc	50702	Davis Pit	03/18/03	Renewal	10
Champlain	R Deso Inc	50759	Prospect Hill Quarry	02/26/03	Renewal	5
Chazy	Champlain, Town of	50389		07/17/03	Renewal	41
Mooers	Beeman, Roswell	50673	Mooers Pit	03/05/03	Modification	10
Mooers	Graymont Materials (NY) Inc	50822	Mooers Stone Products Quarry 2	01/16/03	Renewal	5
Mooers	Leonard & Pearl Lashway Living T	50844	Lashway Sand Mine	05/09/03	Renewal	7
Peru	Phillip A. Green, Sr.	50953		02/11/03	New	10
Plattsburgh	Graymont Materials (NY) Inc	50062	Plattsburgh Quarry	05/07/03	Renewal	102
Plattsburgh	Graymont Materials (NY) Inc	50452	Gratto Pit	05/01/03	Renewal	31
Schuyler Falls	Gonyo, Clayetta C	50376	Rock Pit	04/16/03	Renewal	16
Schuyler Falls	Graymont Materials (NY) Inc	50026	Morrisonville Pit	12/02/03	Modification	135
Columbia						
Ancram	Cross Corp	40423	Old Barton Pit	06/24/03	Renewal	28
Claverack	North Claverack Development Gro	40719	9H/ Rt.66 Pit	06/12/03	Renewal	17
Claverack	Wright, Samuel III	40673	Co Rte 11 Pit	09/26/03	Renewal	9
Gallatin	Vaill, Lloyd	40544	Vaill Mine	01/14/03	Renewal	11
Greenport	A Colarusso & Son Inc	40020	Colarusso Quarry - Newman Rd.	08/13/03	Renewal	76
Greenport	A Delaurentis & Sons Inc	40595	Bryant Farms Pit	08/21/03	Renewal	17

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Columbia						
Greenport	St Lawrence Cement Co LLC	40081	Hudson Quarry	12/12/03	Renewal	281
Kinderhook	Miner Excavating Co	40089	Garrigan Road Pit	03/15/03	Renewal	6
Kinderhook	Troy Sand & Gravel Co Inc	40776	Kinderhook Sand & Gravel Bank	03/12/03	Modification	14
Livingston	F H Stickles & Son Inc	40025	F.H. Stickles Mine	01/08/03	Renewal	85
Livingston	Shapiro, Robert	40414	Elizaville Pit	11/06/03	Renewal	26
Livingston	V R Saulpaugh And Sons	40274	Pleasant Vale Road Pit	01/15/03	Renewal	12
New Lebanon	Amlaw, Francis	40541	Amlaw Pit	09/30/03	Renewal	9
New Lebanon	Valley Materials, Inc.	40725	Valley Materials Sand & Gravel	01/15/03	Renewal	9
Cortland						
Cincinnatus	Cortland County Highway Dept	70764	Dirig Mine - Cincinatus Road	06/04/03	Renewal	16
Homer	Suit-Kote Corp	70400	South Homer Mine -Nys Rt 11	05/01/03	Renewal	37
Truxton	Suit-Kote Corp	70575	Truxton Mine - NYS Route 13	12/12/03	Renewal	19
Virgil	Ottenschot Construction Co Inc	70494	Carpenter's Pit - Sherman Road	09/08/03	Modification	11
Willet	Donnelly, Timothy J & Jacqueline	70590	Donnelly's Communities -D.C. Vi (Will	08/12/03	Renewal	8
Delaware						
Colchester	Johnston & Rhodes Bluestone Co	40817	Profidio Quarry	12/03/03	New	5
Davenport	Burton F Clark Inc	40231	Hillis Gravel Bank	02/17/03	Renewal	47
Hamden	Burton F Clark Inc	40749	Ploutz Gravel Mine	09/17/03	Modification	30
Hamden	Johnston & Rhodes Bluestone Co	40789	Davis Quarry	04/01/03	New	5
Hancock	Johnston & Rhodes Bluestone Co	40724	Molderhauer Quarry	07/22/03	Modification	15
Hancock	Johnston & Rhodes Bluestone Co	40724	Molderhauer Quarry	05/08/03	Renewal	15
Masonville	American Bluestone LLC / Brown,	40733	Masonville Quarry	09/22/03	Modification	9
Masonville	American Bluestone LLC / Brown,	40733	Masonville Quarry	11/01/03	Renewal	9
Masonville	Barnes, David	40743	Masonville Quarry	07/09/03	Modification	18
Masonville	Kilmer, Theodore	40728	Savino Quarry	10/24/03	Renewal	12
Middletown	Josh Construction, Inc.	40794	Josh Construction Sand & Gravel Bank	08/11/03	New	5
Part	Banker, Arnold L	40603	Banker Gravel Bank	01/31/03	Renewal	11
Walton	Johnston & Rhodes Bluestone Co	40785	Doc Smith #2	01/24/03	New	2
Walton	Johnston & Rhodes Bluestone Co	40786	Doc Smith #1	01/24/03	New	2
Walton	Walton, Town of	40246	Pinesville Mine Site	06/25/03	Renewal	12
Dutchess						
Amenia	Amenia Sand & Gravel Inc	30074	Bank B, C, And D	12/05/03	Modification	90
Amenia	Cahill Industries Corp	30001	Wassaic Mine	10/29/03	Modification	67

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Dutchess						
Fishkill	O'Neill, Francis E	30142		08/15/03	Modification	12
Hyde Park	Crum Elbow Sportsman's Associati	30632		07/23/03	New	1
La Grange	Red Wing Properties Inc	30044	Billings Site	10/20/03	Renewal	89
La Grange	Red Wing Properties Inc	30396	Velie Rd. Mine	07/10/03	Modification	98
Pawling	Shaw, Fred	30622	Frebar Mine	08/01/03	New	2
Pine Plains	1133 Building Corp	30114		02/24/03	Modification	7
Pine Plains	Stissing Valley Farms Inc.	30541	Stissing Valley Farms Mine	03/11/03	Renewal	7
Pleasant Valley	Dutchess Quarry & Supply Co Inc	30027	Pleasant Valley Quarry	05/12/03	Renewal	95
Red Hook	Coon, A W & Sons	30524	A.W. Coon Mine	01/27/03	Renewal	4
Rhinebeck	Kinlan, Vincent P	30393	White School House Rd. Mine	07/10/03	Modification	23
Union Vale	Aakjar, Frederick H	30379		08/22/03	Renewal	10
Union Vale	Clove Valley Rod & Gun Club	30621	Bass Pond Mine	06/13/03	Modification	9
Erie						
Boston	Mitscher, Donald P.	90926	Route 219 Fill	11/26/03	Exemption	0
Cheektowaga	Buffalo Crushed Stone Inc	90052	Cheektowaga Stone Plant #21	02/21/03	Renewal	142
Clarence	10,001 Grand Corp	90032	Shisler Road Pit	09/09/03	Renewal	6
Clarence	Emeritus Holdings Corp	90558	Wehrle Drive Gravel Pit	09/19/03	Renewal	58
Colden	Kaefer, Alfred F	90188	Kaefer Gravel Pit	01/08/03	Renewal	9
Collins	Dan Gernatt Asphalt Products Inc	90062	Strickland Deposit	03/27/03	Renewal	4
Collins	Dan Gernatt Gravel Products Inc	90042	Feltz Gravel Pit	05/12/03	Renewal	45
Collins	Hill, George C	90008	Vail Road Pit	04/10/03	Renewal	15
Concord	Lafarge North America Inc	90540	Springville Site	04/28/03	Renewal	32
Concord	Zylinski, Raymond, Jr.	90511	Zylinski Clay Mine	10/15/03	Renewal	22
Eden	Brenner, Norman	90513	Brenner Shale Mine	10/10/03	Renewal	4
Grand Island	Walck Bros Agricultural Services, I	90639	Montanari Pond	04/02/03	Renewal	5
Grand Island	Weaver, Christine M	90678	Anchor Marine	07/28/03	Modification	4
Grand Island	Weaver, Christine M	90678	Anchor Marine	11/19/03	Renewal	4
Lancaster	Buffalo Crushed Stone Inc	90031	Barton Road Plant	05/05/03	Renewal	150
Newstead	County Line Stone Co Inc	90093	Akron Quarry	03/02/03	Renewal	165
Orchard Park	Orchard Park, Town of	90067	Yard Waste Reclamation Center	10/01/03	Renewal	32
Sardinia	Woodruff, Charles David	90500	Woodruff Chaffee Gravel Pit	11/12/03	Renewal	6
Essex						
Crown Point	Adirondack Sand & Gravel	50113	Adirondack Sand And Gravel Pit	03/14/03	Renewal	8

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Essex						
Essex	Lewis, S B	50869	Lewis Mine	09/17/03	Renewal	5
Jay	Jay, Town of	50108	Straight Pit	07/17/03	Renewal	7
Lewis	Graymont Materials (NY) Inc	50056	Lewis Quarry	10/04/03	Modification	50
Lewis	NYCO Minerals Inc	50111	Lewis Mine	10/28/03	Modification	90
Lewis	NYCO Minerals Inc	50803	Oak Hill Mine Site	10/24/03	Renewal	127
North Elba	Lake Placid Village Inc	50448	Village Sand Pit	12/31/03	Renewal	5
Ticonderoga	Armstrong, Patrick	50946	North Ti Sand & Gravel Mine	03/17/03	New	8
Ticonderoga	Huestis, Gerald L	50008	Upper Pit And Gibbs Pit	12/04/03	Renewal	45
Westport	Barber Sand & Gravel	50611	Barber Sand And Gravel Pit	10/07/03	Renewal	6
Franklin						
Bellmont	Adirondack Quarry Inc	50415		01/14/03	Renewal	6
Bellmont	Carter, Gilberta	50954	Carter Pit West	04/23/03	New	3
Brandon	Graymont Materials (NY) Inc	50303	Malone Quarry	09/16/03	Renewal	67
Brandon	Moir, Town of	50425	Tuttle Pit	08/04/03	Renewal	19
Dickinson	Dickinson, Moira, & Waverly, Tow	50631	Martin Pit	08/24/03	Renewal	7
Dickinson	Harris, James	50955	Harris Sand Pit	06/11/03	New	3
Fort Covington	Fort Covington, Town of	50477	Fort Covington Gravel Pit	12/02/03	Renewal	7
Waverly	Waverly, Town of	50683	South River Road Pit	11/18/03	Renewal	4
Waverly	Waverly, Town of	50706	Dexter Rd Pit	11/26/03	Renewal	4
Westville	Stark, Judy	50620	Stark's Gravel Pit	06/20/03	Renewal	50
Fulton						
Ephratah	Gray, Bruce And Sara	50122	Grays Sand & Gravel	08/13/03	Renewal	4
Johnstown	Callanan Industries Inc	50004	Gloversville Mine	04/15/03	Renewal	5
Johnstown	Fulmont Ready Mix Co	50019	Fulmont Ready Mix Sand	12/02/03	Renewal	27
Johnstown	Johnstown, Town of	50842		02/21/03	Renewal	3
Mayfield	Herba, Edward F Jr	50157		02/12/03	Renewal	23
Mayfield	Mayfield, Town of	50552	Mayfield Sand Bank	02/26/03	Renewal	4
Northampton	Ginter, Bruce E	50285	Dimick Sand Pit	09/16/03	Renewal	3
Oppenheim	George Tiedman & Sons Inc DbA A	50796	Nat. Resource Utilization & Mgt.	06/12/03	Renewal	4
Genesee						
Alexander	Frey Concrete Inc	80061	Frey S & G	05/14/03	Modification	260
Batavia	Hanson Aggregates New York Inc	80095	St. John's Pit	11/05/03	Modification	79
Le Roy	Hanson Aggregates New York Inc	80073	Leroy Mine	11/07/03	Renewal	211

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Genesee						
Le Roy	Hanson Aggregates New York Inc	80073	Leroy Mine	05/16/03	Modification	211
Stafford	Hanson Aggregates New York Inc	80075	Stafford Mine	05/16/03	Modification	123
Greene						
Ashland	Ashland Sand & Gravel Inc	40162	Ashland Sand & Gravel	12/02/03	Modification	38
Athens	Country Horizons Inc	40381	Valley Road Pit	12/12/03	Modification	7
Catskill	Peckham Materials Corp.	40055	Catskill Quarry	07/30/03	Modification	84
Catskill	Peckham Materials Corp.	40055	Catskill Quarry	10/15/03	Renewal	84
Catskill	St. Lawrence Cement Company	40028	Catskill Quarry	11/05/03	Renewal	318
Coxsackie	Manley Hillicoss Excavating Inc	40349	Hillicoss Shale Pit	02/24/03	Modification	15
Coxsackie	Manley Hillicoss Excavating Inc	40349	Hillicoss Shale Pit	04/18/03	Modification	15
Coxsackie	Matter Contracting Co Inc	40319	High Hill Shale Pit	01/10/03	Renewal	18
Hunter	Burton F Clark Inc	40507	Kallman Pit	01/01/03	Renewal	28
Lexington	Rappleyea, Greg K.	40810	Beech Ridge Road Pit	05/29/03	New	3
New Baltimore	Matter Contracting Co Inc	40320	Scheller Park Rd Pit	01/17/03	Renewal	11
Part	Cobleskill Stone Products Inc	40447	Falke's Quarry	04/03/03	Modification	14
Hamilton						
Arietta	Rhodes Construction Co Inc	50035	Knapp Pit	04/02/03	Renewal	12
Indian Lake	Ovitt, Ned	50537	Perini Pit	06/18/03	Renewal	5
Inlet	Murdock, Patricia	50251	Murdock Trucking Pit	05/20/03	Renewal	5
Lake Pleasant	Lake Pleasant, Town of	50080	Town Of Lake Pleasant Pit	10/23/03	Renewal	2
Long Lake	Buck Mountain Contractors	50713	Jim Farr Pit #1	06/23/03	Renewal	4
Herkimer						
Fairfield	Hanson Aggregates New York Inc	60042	Middleville Quarry	03/24/03	Renewal	37
Frankfort	Leitz, John E	60497	Leitz Gravel Pit	10/28/03	Renewal	23
Herkimer	Talarico, Cheryl	60938	Talarico Sand & Gravel Mine	12/16/03	Renewal	46
Litchfield	Barrett Paving Materials Inc	60049	Litchfield Quarry	04/07/03	Renewal	120
Newport	PSG Realty, LLC	60729	Poland Pit	03/07/03	Renewal	39
Norway	Clifford, Charles Jr	60097	Clifford Sand & Gravel Pit	01/15/03	Renewal	8
Norway	Folnsbee, Earl	60815	Hurricane Road Pit	08/27/03	Renewal	11
Russia	Bell Construction Co Inc	60720	Bell Pit	11/25/03	Renewal	5
Russia	Hanson Aggregates New York Inc	60040	Gravesville	03/21/03	Renewal	105
Russia	Hanson Aggregates New York Inc	60196	Bienick Pit	02/27/03	Renewal	50
Russia	Russia, Town of	60744	Hinkley Road Pit	03/21/03	Renewal	4

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Herkimer						
Webb	Adirondack League Club	60704	Bisby Road Bridge Pit	12/01/03	Renewal	5
Webb	Heroux Construction Co Inc	60547	Heroux Sand & Gravel Mine	12/02/03	Renewal	20
Webb	J Claude Lecours Inc	60504	Gravel Site	11/07/03	Renewal	11
Webb	Webb, Town of	61012	Big Moose Road Pit	06/10/03	New	4
Winfield	Burton F Clark Inc	60495	Boss Mine	07/09/03	Renewal	19
Jefferson						
Alexandria	Newberry, Royce dba Newberry Co	60853	Newberry Mine	12/23/03	Renewal	7
Champion	Lewis County Highway Dept	60031	Martin Street Road	07/23/03	Renewal	13
Champion	Rutland, Town of	60948	Eddy Road Mine	10/21/03	Renewal	14
Clayton	Bach Plumbing & Heating Co Of C	60981	Topsoil Mine	07/07/03	Modification	33
Ellisburg	Ellisburg, Town of	60753	Parsons Gravel	05/21/03	Modification	15
Ellisburg	Nohle, Charles J	61014	Nohle's Sand & Gravel	02/25/03	New	6
Ellisburg	Rural Hill Sand & Gravel	60002	Gravel Pit	08/13/03	Renewal	39
Leray	Daniel W. Burritt	60061	Route 342 Pit	03/03/03	Renewal	6
Leray	G & J Trucking	60996	Meeks Pit	10/06/03	Modification	14
Orleans	Johnson's Sand And Gravel, Inc.	60072	Flick Mine	02/19/03	Renewal	29
Pamelia	Barrett Paving Materials Inc	60517	Pamelia Quarry	06/16/03	Renewal	101
Watertown	Ives Construction Co	60523	Rices Road	03/21/03	Renewal	5
Watertown	Watertown Sand & Gravel, Inc.	60055	Watertown Sand & Gravel	04/07/03	Renewal	47
Wilna	Wilna, Town of	60062	Forsythe Pit	05/12/03	Renewal	8
Wilna	Wilna, Town of	60250		05/12/03	Renewal	5
Lewis						
Diana	Gouverneur Talc Co Inc	60140	No. 4 Mine	02/06/03	Renewal	54
Greig	Greig, Town of	60009	Fish Creek Road Mine	03/27/03	Renewal	32
Harrisburg	Harrisburg, Town of	60449	Woodbattle Pit	05/28/03	Renewal	3
Lewis	Lewis, Town of	60900	Parsons Mine	11/12/03	Modification	7
Lowville	Lowville, Town of	60021	Lowville Quarry	06/04/03	Renewal	3
Montague	Montague, Town of	60603	Burker Pit	06/18/03	Renewal	5
Osceola	Myslivecek, Dale	61010	Dale's Excavating Gravel Pit	05/12/03	New	3
Turin	Lewis County Highway Dept	60855	Johnson Mine	06/13/03	Renewal	11
Watson	V S Virkler & Son Inc	60082	V S Virkler & Sons Inc.	07/14/03	Renewal	58
Livingston						
Caledonia	Elam Sand & Gravel Corp	80241	Scottsville Mine	12/19/03	Renewal	40

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Livingston						
Caledonia	Hanson Aggregates New York Inc	80093	Halpin Mine	03/06/03	Modification	23
Caledonia	Hanson Aggregates New York Inc	80099	Caledonia	03/06/03	Modification	200
Conesus	Errigo, Joseph A	80673	Errigo Sand And Gravel Mine	05/21/03	Renewal	5
Madison						
Eaton	Madison County Hwy Dept	70513	Melvins Gravel Bed - Brown Road	03/04/03	Renewal	19
Hamilton	Carhart, Edward	70729	White Eagle Sand And Stone Pooleville	11/03/03	New	14
Stockbridge	Otis Marshall Farms Inc	70614	Pratts Road	09/19/03	Renewal	14
Stockbridge	Snyder Construction Co Inc	70106	Munnsville Gravel Bed - Pratts Road	09/19/03	Renewal	19
Sullivan	Callanan Industries Inc	70045	Worlock Quarry, Quarry Road	01/22/03	Modification	79
Sullivan	Crouse Construction, Inc.	70527	Crouse Gravel Bed - NYS Route 173	10/03/03	Renewal	12
Sullivan	Madison Highway Products LLC	70045	Worlock Quarry, Quarry Road	01/22/03	Modification	79
Monroe						
Gates	Dolomite Products Company Inc	80020	Gates Quarry	06/25/03	Renewal	90
Mendon	Hanson Aggregates New York Inc	80051	Treat Mine	11/15/03	Renewal	44
Penfield	Dolomite Products Company Inc	80021	Penfield Quarry	03/17/03	Modification	130
Niagara						
Lewiston	Mawhiney Trucking, Inc.	90906	Helmich Site	10/15/03	New	10
Lockport	Redland Quarries NY Inc	90017	Lockport Quarry	04/10/03	Renewal	225
Royalton	Redland Quarries NY Inc	90016	Gasport Plant	07/21/03	Renewal	124
Oneida						
Annsville	Matt, Leo E	60659	Taberg Site	12/04/03	Renewal	19
Boonville	Hanson Aggregates New York Inc	60039	Boonville Pit	07/31/03	Renewal	96
Florence	Bartell, Mike	60491	Florence Sand & Gravel	11/24/03	Renewal	6
Floyd	Harvey, Gary	60944	Floyd Mine	10/15/03	Modification	7
Forestport	Horan Trust, Peter	60861	Woodgate Mine	12/02/03	Renewal	10
Lee	Lee Sand & Gravel	60286	Brookfield Road Mine	10/27/03	Renewal	36
Marcy	Burrows, Frederick R	60774	Double K Farms	02/04/03	Renewal	4
Marshall	Hanson Aggregates New York Inc	60041	Oriskany Falls Quarry	06/11/03	Modification	264
Marshall	Peck, Gary R	60710	Maxwell Road Gravel Pit	06/24/03	Renewal	5
Paris	Ludlow, G Kevin	60073	Ludlow Sand & Gravel	04/23/03	Renewal	28
Part	Posson, Richard	60995	Sanger Hill Rd Pit	04/23/03	New	5
Rome	Aikens Construction Of Rome Inc	60200	Gifford Road Pit	04/09/03	Expired	49
Rome	Aikens Construction Of Rome Inc	60200	Gifford Road Pit	04/09/03	FS Expired	49

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Oneida						
Trenton	Harvey, Gary	60680	Krebs Pit	02/05/03	Renewal	10
Whitestown	Burrows, Frederick R	60160	Route 69 Pit	04/14/03	Renewal	22
Onondaga						
Elbridge	Cayuga County Soil & Water Cons	70768	Seymore Lofft Park - Sandbank Road	03/10/03	Renewal	1
Manlius	T H Kinsella Inc	70077	Kinsella Quarry - NYS Route 5	06/23/03	Modification	55
Marcellus	Marcellus Products Inc	70487	Marcellus Products - Masters Road	10/21/03	Renewal	5
Onondaga	Onondaga, Town of	70277	Bett's Gravel Mine - County Route 151	07/01/03	Renewal	10
Onondaga	W F Saunders & Sons Inc	70840	South Onondaga (Haendle) Mine	11/24/03	New	19
Skaneateles	Hanson Aggregates New York Inc	70024	Skaneateles Quarry	08/13/03	Renewal	270
Ontario						
Hopewell	Willow Bend Farm LLC	80811	Yates Clay Mine	09/17/03	New	4
Manchester	Willow Bend Farm LLC	80810	Willow Bend Mine	07/10/03	New	4
Phelps	Dendis Sand & Gravel Inc	80518	Boyde Pit	12/22/03	Renewal	35
Phelps	Hanson Aggregates New York Inc	80009	Phelps Mine	03/06/03	Modification	238
Phelps	Phelps Sand & Gravel Inc	80734		04/01/03	Renewal	11
Phelps	Syracuse Sand & Gravel LLC	80634	Lake Road Pit	02/13/03	Modification	58
Victor	Genesee Sand & Gravel, LLC	80105	Genesee S & G	11/26/03	Modification	16
Victor	Hanson Aggregates New York Inc	80050	Victor Mine	02/27/03	Renewal	150
West Bloomfield	Elam Sand & Gravel Corp	80428	West Bloomfield Mine	06/05/03	Renewal	71
West Bloomfield	Parrish, Wayne N	80246	Olmstead Pit	12/03/03	Renewal	22
Orange						
Chester	Gangemi Salerno & Fini	30490	Gateway Hill Professional Park	10/23/03	Renewal	9
Crawford	Tamira Amelia Farm LLC	30377	Dejong Property	04/24/03	Renewal	11
Goshen	Persoon, Peter & Alida	30573	Persoon Sand & Gravel Mine	12/23/03	Renewal	6
Minisink	Rossi, Robert	30501	Ford Road Mine Site	07/09/03	Renewal	7
Montgomery	Crist Brothers Orchards Inc	30499	Crist Bros. Mine	01/30/03	Renewal	21
Mount Hope	Mount Hope, Town of	30372	Shoddy Hollow Rd	07/29/03	Renewal	7
New Windsor	Bonura, Joseph	30512		01/30/03	Renewal	7
Newburgh	Profex Inc	30586	Profex Mine	04/07/03	Renewal	5
Wallkill	Carroll Manufacturing & Develop	30493		01/29/03	Renewal	3
Wawayanda	E Tetz & Sons Inc	30545	Pine Lane Mine	10/23/03	Modification	56
Wawayanda	Ward Pavements Inc	30561	Garten Mine	08/11/03	Renewal	16
Orleans						

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Orleans						
Barre	Carter Sand & Gravel Inc	80171	Carter Sand And Gravel, Inc.	07/14/03	Renewal	70
Clarendon	Hanson Aggregates New York Inc	80079	Clarendon Quarry	05/16/03	Modification	76
Murray	Hanson Aggregates New York Inc	80072	Hulberton Quarry	11/17/03	Modification	68
Oswego						
Amboy	Amboy, Town of	70324	Allen Lasalle Mine - Finnerty Road	07/14/03	Renewal	20
Amboy	Syracuse Sand & Gravel LLC	70781	Birmingham Gravel Pit	05/13/03	Modification	9
Constantia	Hildreth, Allen	70619	Grannis Pit - South Side Grannis Road	02/04/03	Renewal	9
Constantia	North Country Concrete & Block I	70353	Constantia Center Mine - Co. Rt. 17	10/21/03	Modification	112
Granby	Granby, Town of	70551	Granby Pit	08/07/03	Renewal	3
Hannibal	Hannibal, Town of	70775	Phillips Mine - Co. Rt. 85	11/18/03	Renewal	4
Hannibal	Ken Malone Excavating	70776	D & A Stock Mine	07/15/03	Renewal	4
Hannibal	Simmons, William	70645	Simmons Pit - Mill Street	06/26/03	Renewal	4
Hastings	A J Montclair Inc	70559	Hogsback Rd. Mine - Cornell Rd.	02/05/03	Renewal	8
Mexico	Earl Becker Construction Inc	70325	Peterson Mine - NYS Route 69	03/18/03	Modification	23
Mexico	Mexico, Town of	70239	Mexico - Tubbs Road	04/02/03	Modification	67
Mexico	Reed, Terry Jr	70855	Spicer-Reed Gravel Pit	12/12/03	New	16
Palermo	North Country Concrete & Block I	70306	Stephen Geer Gravel Bed	03/11/03	Modification	17
Palermo	Oswego County DPW	70666	Pitcher Pit	12/31/03	Renewal	7
Parish	Earl Becker Construction Inc	70330	Henderson's Mine - Red Mill Road	05/12/03	Modification	16
Richland	Coffin, Robert E	70587	Coffin Farm Pit #2 - Co. Rt. 48	08/21/03	Renewal	9
Sandy Creek	Hanson Aggregates New York Inc	70020	Lacona - North	09/02/03	Renewal	408
Schroepfel	Brown, Connie	70381	Gilbert Mills Road Facility	03/20/03	Renewal	4
Schroepfel	Gabor, Donald J	70568	Gabor Mine - Oswego Co. Route 12	05/08/03	Renewal	4
Scriba	Northern Aggregates Inc	70760	Virgo Mine	01/03/03	Renewal	12
Scriba	Scriba, Town of	70135	Bough Pit	06/06/03	Renewal	34
Volney	Bonnoffski, Raymond D.	70835	Raymond Bonoffski Gravel Mine	09/05/03	New	5
Volney	Northern Aggregates Inc	70409	Baldwin Road - Ives	01/02/03	Renewal	46
Volney	Vickery Construction, Inc.	70851	McDougall Road Gravel Pit	09/22/03	New	5
Volney	Vickery Construction, Inc.	70852	Whitaker Road Topsoil Mine	10/14/03	New	5
Williamstown	Williamstown, Town of	70586	Kasoag Mine	07/15/03	Renewal	15
Otsego						
Burlington	Burlington, Town of	40707	Norton Road Pit	01/28/03	Renewal	15
Butternuts	Ackley, Robert	40648	1009 County Highway 18	09/17/03	Renewal	6

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Otsego						
Butternuts	Butternuts, Town of	40313	Co.Rt.18 / Bank # 2 Pit	09/05/03	Renewal	13
Edmeston	Fred Burrows Trucking & Excavati	40771	Burrows- Hawes Gravel Pit	12/10/03	New	7
Maryland	J & J Tauzel	40395	J&J Tauzel Mine	09/05/03	Renewal	14
Maryland	Seward Sand & Gravel Inc	40800	Ross Pit	06/25/03	New	11
Middlefield	Middlefield, Town of	40646	Middlefield Sand & Gravel	01/20/03	Renewal	8
Milford	Beisler, David	40046	Seward Sand & Gravel	01/06/03	Renewal	37
Milford	Williams, Kenneth	40658	Rte 28 Goodyear Lake Pit	07/23/03	Renewal	4
Unadilla	Waste Recovery Enterprises LLC	40798	Earl Road Gravel Mine	01/06/03	New	9
Putnam						
Philipstown	WTP Supply Co.,Inc	30602		10/31/03	Renewal	2
Rensselaer						
East Greenbush	James H Maloy Inc	40413	Hayes Road Clay Pit	06/26/03	Renewal	4
Petersburg	O'donovan, Brian	40521	Church Hollow Rd. Bank	09/17/03	Renewal	9
Petersburg	Valente Materials Group LP	40223	Bentley Pit	02/26/03	Renewal	16
Pittstown	Bulson, Kenneth	40226	Bulson Mine	09/22/03	Renewal	10
Pittstown	Gallivan, Sean M	40758	Otter Creek Farm Gravel Mine	04/09/03	New	5
Poestenkill	Rifenburg Construction Inc	40524	Dzembo Farm Pit	12/04/03	Renewal	6
Sand Lake	Cooper, James F	40807	Cooper Property Mine	11/28/03	New	6
Sand Lake	James H Maloy Inc	40039	Wicks Bank	11/05/03	Renewal	17
Sand Lake	Rifenburg Construction Inc	40137	Hoffay Farm Pit	09/11/03	Modification	50
Sand Lake	Troy Sand & Gravel Co Inc	40701	Reichards Lake Pit	08/31/03	Renewal	1
Schaghticoke	Brickyard Associates Ltd	40570	Rt. 67/ Spaulding Pit	06/20/03	Renewal	57
Schaghticoke	Warren W Fane Inc	40289	Hemstreet Park Pit	08/31/03	Renewal	101
Schaghticoke	Warren W Fane Inc	40566	Dyer Lease Pit	06/10/03	Renewal	8
Stephentown	Valley Materials, Inc.	40590	Goodermote Farm Pit	02/27/03	Modification	19
Saratoga						
Corinth	Pompa Bros Inc	50264	Wells Rd Pit	04/02/03	Renewal	9
Corinth	Saratoga County DPW	50549		09/25/03	Renewal	3
Galway	Sherman, George A.	50130		01/27/03	Modification	5
Galway	Sherman, George A.	50130		12/15/03	Renewal	5
Greenfield	Pompa Bros Inc	50263	Coy Rd Pit	11/25/03	Renewal	102
Hadley	Hadley, Town of	50007		04/02/03	Renewal	5
Halfmoon	F J Zeronda Inc	50714	Bailey Farm Pit	08/06/03	Renewal	20

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Saratoga						
Halfmoon	James H Maloy Inc	50632	Halfmoon Clay Bank	10/24/03	Renewal	5
Halfmoon	R J Valente Gravel Inc	50690	R. J. Valente Bank #7	10/30/03	Renewal	55
Halfmoon	William M Larned & Sons Inc	50476	Lower Newtown Road Site	04/02/03	Renewal	56
Moreau	Barden, Peter M	50607	Barden Topsoil Mining	06/13/03	Renewal	5
Moreau	Cranesville Aggregate Companies I	50039	Moreau	05/05/03	Renewal	65
Moreau	D A Collins Construction Co Inc	50455	Robert Shaw Pit	05/09/03	Renewal	12
Moreau	Pallette Stone Corp	50420	Abbey Mine	03/03/03	Modification	6
Providence	Milton, Galway & Providence, Tow	50120	Tri-Town Gravel Pit	06/26/03	Renewal	29
Providence	Van Hall, Layla	50818		01/27/03	Modification	10
Providence	Van Hall, Layla	50818		09/22/03	Modification	10
Providence	W. M. Shultz Construction Inc.	50187	Providence Mining Pit	01/23/03	Renewal	8
Saratoga	Clute, John F	50465		10/30/03	Renewal	7
Schenectady						
Glenville	Cranesville Aggregate Companies I	40093	Van Buren Bank	09/23/03	Renewal	65
Glenville	William M Larned & Sons Inc	40784	Vley Road Site	06/06/03	New	4
Rotterdam	Fessenden Construction Co	40469	Fessenden Pit	03/31/03	Renewal	6
Schoharie						
Cobleskill	Cobleskill Stone Products Inc	40209	Howes Cave Quarry	04/03/03	Renewal	104
Gilboa	Hallock, Carlton G	40481	Platterkill Gravel Mine	01/21/03	Renewal	17
Richmondville	Veley, James M	40629	Rte 7 Richmondville Pit	06/10/03	Renewal	5
Schuyler						
Dix	It's Greener Now, Inc	80244	Padua Mine	12/03/03	Modification	14
Hector	Hanson Aggregates New York Inc	80222	Burdett	08/13/03	Renewal	98
Hector	Schamel Bros Contractors Inc	80610	Schamel Bros.	12/22/03	Renewal	2
Tyrone	Tyrone, Town of	80775	Bocek Gravel Pit	07/31/03	Modification	27
Seneca						
Waterloo	Seneca Meadows Inc	80737	Smi Surface Mine	07/06/03	Renewal	92
St. Lawrence						
Brasher	NYS DEC	60918	Brasher State Forest Mine	10/21/03	Renewal	3
Canton	Hermon, Town of	60921	Crusher Road Mine	01/02/03	Renewal	7
Clare	Clare, Town of	60631	Sharpstone Pit	11/24/03	Renewal	3
Clare	Clare, Town of	60632	Warren Pit	12/02/03	Modification	4
Clifton	Newstech NY - St. Lawrence Divis	60447	Crane Pond	07/25/03	Modification	11

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
St. Lawrence						
Clifton	Newstech NY - St. Lawrence Divis	60608	Waste Rock Pit	07/25/03	Modification	5
Clifton	Newstech NY - St. Lawrence Divis	60609	Sand Pit	07/25/03	Modification	3
Colton	Graymont Materials (NY) Inc	60057	Cold Brook Pit	04/24/03	Renewal	7
Colton	NYS DEC	60840	Bog River Flow Pit	10/01/03	Renewal	1
Colton	NYS DEC	60841	Otter Brook Pit	10/01/03	Renewal	1
Edwards	French, Wayne	60233	Barraford Pit	09/02/03	Renewal	16
Edwards	Harmer, Harry	60728	Bullock Pit	09/09/03	Modification	15
Edwards	Mackin, Franklin	60384	Bullock Pit	03/11/03	Renewal	7
Fine	NYS DEC	60839	Schuler Pit	10/01/03	Renewal	2
Gouverneur	Imerys Marble Inc.	60003	Seavey Road Quarry	05/30/03	Renewal	84
Hammond	Greystone Quarries, Inc	61015	North Country Mine	12/01/03	New	5
Lisbon	Curran Logging Inc	60867	Lisbon Topsoil Mine	10/06/03	Modification	57
Lisbon	Lisbon, Town of	60306	Diamond National Pit	12/09/03	Renewal	5
Lisbon	R.B. Enterprises / Ronald Blair	60838	Parmeter Mine	02/27/03	Renewal	5
Madrid	Van Patten, Steven	61016	Braddy Road Gravel Pit	11/17/03	New	5
Madrid	Waddington, Town of	60800	Gero Mine	01/23/03	Renewal	4
Morristown	Stout's Ready Mix Ltd.	60230	Stout Mine	04/07/03	Modification	66
Norfolk	Barrett Paving Materials Inc	60047	Norwood Quarry	09/10/03	Renewal	144
Norfolk	Barrett Paving Materials Inc	60832	Norfolk Quarry # 2	07/17/03	Renewal	40
Oswegatchie	Howes Excavating	60163		05/21/03	Renewal	8
Parishville	Graymont Materials (NY) Inc	60054	Chapel Hill Road Mine	07/16/03	Modification	50
Pierrepont	Canton, Village of	60126	Beech Plains Gravel Pit	04/07/03	Renewal	16
Pitcairn	Pitcairn, Town of	61017	Green Wood Pit	10/27/03	New	3
Russell	Russell, Town of	60696	Town Of Russell Gravel Pit	02/25/03	Renewal	11
Waddington	Waddington, Town of	60076	Hunter Pit	01/14/03	Renewal	5
Steuben						
Bath	Hanson Aggregates New York Inc	80033	Bath Mine	05/21/03	Modification	134
Bath	Hanson Aggregates New York Inc	80033	Bath Mine	11/05/03	Renewal	134
Bath	Hanson Aggregates New York Inc	80567	Kanona Mine	03/06/03	Modification	81
Bradford	Machuga, Edward J	80039	Machuga Mine	03/11/03	Modification	23
Cameron	Buck Excavation & Gravel, LLC	80717	Buck Excavation & Gravel Pit	09/23/03	Modification	4
Campbell	Dalrymple Gravel & Contracting C	80034	Coopers Plains Mine	02/03/03	Modification	104
Canisteo	Canisteo, Town of	80482	Campbell Pit	11/06/03	Renewal	4

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Steuben						
Caton	Duell, William	80740	West Caton Road	08/27/03	Renewal	4
Cohocton	Elam Sand & Gravel Corp	80003	Cohocton Sand & Gravel Pits	06/17/03	Modification	64
Cohocton	S & D Farms Inc	80090	Crouch Pit	02/26/03	Renewal	6
Erwin	Erwin, Town of	80302	Erwin Mine	11/12/03	Renewal	16
Erwin	Erwin, Town of	80730	Town Of Erwin Gravel Pit	11/06/03	Renewal	12
Erwin	Glenn O Hawbaker Inc	80750	Minles Farm Mine	04/02/03	Modification	27
Fremont	Dansville, Town of	80739	Eisman Road #1 Mine	07/31/03	Renewal	6
Howard	Blades Construction Products Corp	80203	Howard Operation	07/17/03	Renewal	117
Lindley	Austin Construction LLC	80743	Primizzi Road Pit	09/17/03	Renewal	5
Wayland	Fremont, Town of	80733	Town Of Fremont Gravel Pit/ Church R	06/26/03	Renewal	47
Wayland	Wayland, Town of	80141	Johnson Bros. Pit	12/01/03	Renewal	17
Woodhull	Woodhull, Town of	80744	Hartman-Carl Gravel Mine	07/30/03	Renewal	5
Suffolk						
Brookhaven	AvalonBay Communities Inc	10110	The Village Of The Fairways	01/22/03	New	5
Brookhaven	Frog Hollow Industries	10079	Frog Hollow Industries	10/07/03	Renewal	18
Riverhead	Island Water Park Inc	10107	Island Water Park	01/06/03	New	19
Riverhead	T S Haulers Inc	10101	T S Haulers	02/24/03	Renewal	47
Smithtown	Napoho Associates Inc	10056	Napoho Associates	05/31/03	Renewal	12
Smithtown	Pomaro Industries Inc	10059	Pomaro Industries	04/30/03	Renewal	9
Southampton	Sand Land Corp	10033	Sand Land Mining	10/09/03	Renewal	32
Southampton	Wainscott Properties Inc	10041	Wainscott Properties Flanders Site	05/06/03	Renewal	3
Southold	Southold, Town of	10113	Town of Southold (New)	03/24/03	New	12
Sullivan						
Bethel	Gala Sand & Gravel Inc	30046	Gail Rd	07/24/03	Renewal	29
Callicoon	Callicoon, Town of	30075	Youngsville	07/16/03	Renewal	5
Callicoon	TSR Materials Corp	30282	Hauser Gravel Bank	07/14/03	Modification	14
Tusten	Tusten, Town of	30591		02/04/03	Renewal	4
Tioga						
Barton	Austin Excavating & Paving Inc	70766	Austin Sand & Gravel Mine-NYS Rte.	11/03/03	Renewal	15
Barton	State Line Auto Auction Inc	70656	State Line Mine - Chapel Road	05/01/03	Renewal	4
Barton	Tom Simonds & Son Inc	70657	Hubish Mine - Milltown, Pa.	04/01/03	Renewal	10
Candor	Candor, Town of	70593	Candor Gravel Pit -Nys Route 96	07/07/03	Renewal	10
Candor	H L Robinson Sand & Gravel Inc	70473	Robinson Sand And Gravel - NYS Rout	03/26/03	Renewal	22

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Tioga						
Nichols	F S Lopke Contracting Inc	70167	River Drive Mine - East River Drive	07/14/03	Renewal	80
Owego	Gregory & Sons Inc	70195	Leo Spencer Mine - Route 38	07/14/03	Renewal	16
Richford	Richford, Town of - Highway Depa	70067	Harrington Mine- NYS Route 79 East	03/19/03	Renewal	3
Spencer	Landstrom Gravel Co Inc	70011	Spencer Pits #1 And #2 NYS Route 34/	01/29/03	Renewal	90
Tioga	Tioga, Town of	70662	Highway Mine	07/31/03	Renewal	12
Tompkins						
Dryden	Finger Lakes Stone Co Inc	70107	Finger Lakes Quarry	06/06/03	Renewal	12
Dryden	RMS Gravel Inc	70748	South Mine	07/16/03	Renewal	46
Ithaca	John Rancich	70849	Marshall Pit - NYS Route 79	09/22/03	New	5
Newfield	Economy Paving Co Inc	70219	Taber Pit	05/12/03	Renewal	8
Ulster						
Lloyd	Magliato Brothers Inc	30310		07/11/03	Modification	12
Plattekill	Modena Sand And Gravel	30537	Lembo Apple Mine	04/25/03	Renewal	10
Rochester	Rochester, Town of	30077	Airport Rd.	01/27/03	Renewal	18
Rochester	Rochester, Town of	30311	Krum Rd.	01/24/03	Renewal	14
Saugerties	Parr, William C	30154		11/12/03	Renewal	9
Wawarsing	209 Sand & Gravel Inc	30124		04/22/03	Modification	20
Wawarsing	Feinberg, Jay	30511	Quince Glen Mine	01/31/03	Renewal	8
Warren						
Chester	Peckham Materials Corp.	50031	Chestertown Site	05/08/03	Renewal	97
Chester	W. J. Bokus Industries Inc.	50457	High Peaks Asphalt Pit	10/13/03	Renewal	5
Johnsburg	Barton Mines Co LLC	50483	Ruby Mt. Quarry	06/16/03	Renewal	107
Queensbury	O' Connor Realty, Inc.	50037	O'Connor's Gravel Pit	05/08/03	Renewal	38
Stony Creek	Stony Creek, Town of	50438	Town Sand & Gravel Pit	08/28/03	Renewal	7
Washington						
Easton	Peckham Industries Inc	50034	Middle Falls Quarry	05/05/03	Renewal	7
Easton	Tracy Materials Inc	50297	Windy Hill Bank	09/02/03	Renewal	141
Fort Ann	Delaware & Hudson Railway Co In	50867		12/01/03	Modification	16
Fort Ann	Finch Pruyn & Co Inc	50504	Washington County Mine	05/05/03	Renewal	29
Fort Ann	Jointa Galusha LLC	50159	Fort Ann Bank	12/22/03	Renewal	43
Fort Ann	Kingsbury, Town of	50071	Tripoli Pit	06/12/03	Renewal	9
Fort Ann	Schermerhorn, Rich (Schermerhor	50572	Yole Sand Pit	02/18/03	Modification	6
Fort Ann	Stiles, Daniel	50121		06/13/03	Renewal	16

Mined Land Permits Issued During 2003

Town	Company	MineID	Mine Name	Issue Date	Type	Acres Affected
Washington						
Fort Ann	Washington Co. Dept. Of Public W	50002	Tripoli Sand & Gravel Pit	06/16/03	Renewal	41
Granville	Crouse, Daniel	50703	Hidden Meadow Sand And Gravel	04/15/03	Modification	12
Greenwich	B J Farms Inc	50917		09/15/03	Modification	10
Jackson	Arnold Builders Corp	50150	Rte. 313 Gravel Mine	07/30/03	Renewal	11
Jackson	Belton Farms LLC	50846		07/30/03	Renewal	5
Jackson	Rifenburg Construction Inc	50385	Carlton Farm Pit	04/15/03	Renewal	16
Kingsbury	Yolam Construction Inc	50467	Rich Clay Pit	06/13/03	Renewal	42
Salem	Peckham Industries Inc	50328	E. Perry Bank	08/05/03	Renewal	8
Salem	Winslow, Richard	50458		10/20/03	Renewal	5
Salem	Winslow, Richard	50458		04/11/03	Modification	5
Wayne						
Arcadia	Scheer, David A	80726	Duvall And Scheers Sand & Gravel	08/26/03	Modification	25
Butler	Butler, Town of - Highway Dept	80396	T Hwy Pit	03/10/03	Modification	20
Butler	Hanson Aggregates New York Inc	80248	Red Creek	11/12/03	Renewal	38
Butler	Hanson Aggregates New York Inc	80248	Red Creek	03/06/03	Modification	38
Butler	Hanson Aggregates New York Inc	80606	Butler Plant	11/07/03	Renewal	48
Huron	Wayne County Highway Dept	80686	Lummisville Road, C.R.155	03/10/03	Modification	10
Macedon	Eastern Sand & Gravel Inc	80729	Daansen And Macedon Center Roads	08/19/03	Renewal	23
Macedon	Morrison Excavating Inc	80732	Niven-Harrison Materials	09/05/03	Renewal	12
Macedon	Syracuse Sand & Gravel LLC	80569	Daansen Road Pit	11/17/03	Renewal	22
Palmyra	Marion, Town of	80128	Lyon Gravel Mine	06/11/03	Renewal	15
Wolcott	J M J Sand & Gravel Inc	80736	Red Creek Road Sand & Gravel Faciliti	09/29/03	Renewal	6
Wyoming						
Eagle	Youngers, Carl	90468	Carl Younger's Gravel Pit	02/05/03	Modification	7
Gainesville	Broughton, Randy	90903	Broughton Mine	04/28/03	New	8
Gainesville	Hulme, Edward	90686	Johnson Gravel Pit	03/28/03	Renewal	6
Orangeville	Ball, Norman D	90601	Trademark Sand And Gravel Pit	01/02/03	Renewal	5
Orangeville	Orangeville, Town of	90535	Wright Pit	04/18/03	Renewal	8
Pike	Walkley, Lincoln	90172	Westwind Aggregates Mine	01/27/03	Renewal	28
Wethersfield	Lafarge North America Inc	90283	Wethersfield Gravel Pit	11/04/03	Renewal	9

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Albany						
Bethlehem	Callanan Industries Inc	40384	Rupert Road Pit	Sand and Gravel	11/19/03	20
Bethlehem	Hillman, Robert J	40128		Topsoil	11/26/03	22
Guilderland	James H Maloy Inc	40037	Oliver Karmo Pit	Sand and Gravel	11/25/03	39
Guilderland	Wagner, Frederick L	40327		Sand and Gravel	02/14/03	7
Allegany						
Willing	Allegany County DPW	90891	Mapes Road Gravel Mine - Antes Proper	Sand and Gravel	09/09/03	2
Broome						
Binghamton	Monahan, Joseph	70847	Hawleyton Road Mine	Bluestone	06/04/03	2
Fenton	Casey Construction Inc	70143	Bob Casey Mine	Sand and Gravel	05/20/03	3
Lisle	Pendell, Orrin	70540	Route 79	Sand and Gravel	05/20/03	6
Union	Roger Steen Inc	70553	Country Club Subdivision - Watson Blv	Clay	08/01/03	6
Cattaraugus						
Franklinville	Ischua, Town of	90600	Diehl Gravel Pit	Sand and Gravel	07/31/03	2
Otto	Otto, Town of	90376	Town Mine	Sand and Gravel	11/03/03	5
Cayuga						
Summerhill	Summerhill, Town of	70336	Ripley's Pit - NYS Route 41-A	Sand and Gravel	10/15/03	3
Chautauqua						
Ellington	Lecceardone, Richard	90316	Lecceardone Pit	Sand and Gravel	05/01/03	3
Chemung						
Veteran	Veteran, Town of	80660	Thomas Road Pit	Sand and Gravel	12/03/03	5
Chenango						
Smyrna	Lebanon, Town of - Highway Departme	70414	Drexlers Sand Bed - East River Road	Sand and Gravel	07/21/03	12
Smyrna	Smyrna, Town of	70728	Sacchieri Mine - Flatiron Road	Sand and Gravel	07/21/03	10
Clinton						
Mooers	G Everleth Construction Co Inc	50534		Sand and Gravel	09/25/03	3
Mooers	Gonyo, Arnold	50828	Arnold Gonyo Gravel Mine	Sand and Gravel	07/22/03	11
Peru	Renadette, Clifford	50943	Topsoil Mine #2	Topsoil	10/27/03	8
Schuyler Falls	Curtis, Eugene L	50433	Curtis Gravel Pit	Sand and Gravel	10/21/03	3

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Columbia						
Hudson	Hudson, City of	40642	Hudson Clay Mine	Clay	04/23/03	12
Kinderhook	Hewig, Authur & Lori	40585	Hewig Mine	Sand and Gravel	01/24/03	5
Kinderhook	Miner Excavating Co	40089	Garrigan Road Pit	Sand and Gravel	05/23/03	6
Cortland						
Cortlandville	Cortlandville, Town of	70096	Summerville Mine - South Hill Road	Sand and Gravel	07/17/03	1
Delaware						
Franklin	Franklin, Town of	40374	Federal Gravel Bank	Sand and Gravel	06/12/03	3
Hancock	Cobleskill Stone Products Inc	40704	Vetrone/Tar Hollow Rd. Pit	Sand and Gravel	06/17/03	5
Middletown	Middletown, Town of	40351	Margaretville Pit	Sand and Gravel	09/15/03	5
Walton	Delaware County DPW	40705	Chase Brook Borrow Pit	Sand and Gravel	05/28/03	2
Dutchess						
East Fishkill	Knapp, Thomas	30566		Sand and Gravel	08/21/03	6
Erie						
Grand Island	R W Weaver Corporation	90632	Morgan Farms Clay Mine	Clay	09/09/03	6
Essex						
Lewis	Essex, Town of - Highway Dept	50594	Town Of Essex Hwy. Dept. Pit	Sand and Gravel	08/06/03	3
Schroon	Schroon Lake, Town of	50255	Pit #1	Sand and Gravel	06/12/03	12
Franklin						
Chateaugay	Godding, Leonard	50606	Chateaugay Sand And Gravel Pit	Sand and Gravel	08/21/03	4
Dickinson	Dimick, Charles J	50481		Sand and Gravel	10/14/03	4
Greene						
Catskill	Down To Earth Mining - Roger Vincent	40683	Old Kings Road Pit	Sand and Gravel	09/15/03	12
New Baltimore	Matter Contracting Co Inc	40320	Scheller Park Rd Pit	Sand and Gravel	06/26/03	11
Herkimer						
Frankfort	Waste Management Of North America,	60578	Mohawk Valley Landfill Pit	Clay	11/19/03	13
Ohio	Satterley, Clifford	60686	Satterley Gravel Pit	Sand and Gravel	05/01/03	2
Schuyler	Ritter, Michael J	60676	Windfall Road Site	Clay	04/14/03	4
Webb	Webb, Town of	60364	Adirondack Woodcraft Pit	Sand and Gravel	11/20/03	5

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Jefferson						
Alexandria	Wells Island Realty Corp	60345	Westminster Park Gravel	Sand and Gravel	08/29/03	4
Champion	Champion, Town of	60796	Thomas Mine	Sand and Gravel	06/05/03	12
Champion	R G King General Construction Inc	60507	Eddy Road Pit	Sand and Gravel	01/29/03	8
Ellisburg	Eastman, John	60927	Eastman Mine	Sand and Gravel	01/29/03	23
Lorraine	Lorraine, Town of	60913	Loomis Mine	Sand and Gravel	06/18/03	2
Pamelia	Pala Wood Services Co Inc	60975	Mine 1	Topsoil	07/25/03	51
Lewis						
Lewis	Lewis County Highway Dept	60972	Goodhines Mine	Sand and Gravel	06/04/03	3
Martinsburg	Martinsburg, Town of	60941	Damuth Mine	Sand and Gravel	09/15/03	3
Turin	Lewis County Highway Dept	60873	Duncan Site	Sand and Gravel	08/29/03	7
Turin	Turin, Town of	60452		Sand and Gravel	11/14/03	11
West Turin	West Turin, Town of	60015	Kraeger Site	Sand and Gravel	06/05/03	5
Montgomery						
Amsterdam	T H S Industries Inc	40478	Cassibury Tribes Hill Limestone Quarry	Limestone	03/05/03	7
Niagara						
Newfane	Haseley Trucking Co Inc	90478	Dean Pond	Sand and Gravel	08/21/03	18
Oneida						
Boonville	Marcy Excavation Co Inc	60953	Marcy Mine	Sand and Gravel	08/27/03	5
Floyd	Mierek, Frank	60664	Mierek Mine	Sand and Gravel	06/10/03	9
Lee	Alliance Paving Materials Inc	60513	Podunk Road Site	Sand and Gravel	07/14/03	15
Trenton	Oneida County DPW	60183	Rt 365 Sand & Gravel Pit	Sand and Gravel	08/07/03	2
Onondaga						
Van Buren	The Hull Corporation	70356	Van Buren Pit - Van Buren Road	Glacial Till	10/01/03	6
Ontario						
Farmington	Sebastian, John	80376		Sand and Gravel	09/08/03	10
Naples	Kula, Steve J	80082	Gravel Pit	Sand and Gravel	07/15/03	1
West Bloomfield	Connors Sand & Gravel Inc	80089	Connors S & G	Sand and Gravel	08/25/03	12
West Bloomfield	Crupi Gravel Products Inc	80247	Ionia Pit	Sand and Gravel	06/25/03	12

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Orange						
Crawford	Tamira Amelia Farm LLC	30377	Dejong Property	Sand and Gravel	10/28/03	11
Wallkill	Marlborough Sand & Gravel Inc	30519	Stony Ford Farm Mine	Sand and Gravel	11/17/03	40
Oswego						
Palermo	Lar-Ben Corporation	70628	Goodfellow Mine - Goodfellow Road	Sand and Gravel	10/16/03	8
Otsego						
Hartwick	Hartwick, Town of	40581	Clifford Hull Gravel Mine	Sand and Gravel	10/21/03	9
Putnam						
Carmel	Shultz, Lee	30355	Glenedia Rail Mine	Sand and Gravel	06/19/03	3
Rensselaer						
Brunswick	Rifenburg Construction Inc	40637	Brunswick Operation	Clay	10/29/03	4
Hoosick	Hg Properties Inc	40500	Gibson-Honig Mechanic St. Ext. Pit	Sand and Gravel	07/01/03	12
Hoosick	Troy Sand & Gravel Co Inc	40553	Calhoun Pit	Sand and Gravel	09/05/03	5
Petersburg	Petersburg, Town of	40618	Babcock Clay Mine	Clay	03/10/03	4
Schaghticoke	James H Maloy Inc	40429	Giroux Pit	Sand and Gravel	05/23/03	1
Schaghticoke	Schaghticoke, Town of	40464	Seymour Sand Pit	Sand and Gravel	04/30/03	12
Saratoga						
Clifton Park	Federal Development Corp	50279		Sand and Gravel	06/15/03	4
Halfmoon	John Lucarelli & Sons Inc	50089	Parazynski Pit	Sand and Gravel	09/05/03	10
Schenectady						
Glenville	William M Larned & Sons Inc	40609	Rt. 5 Glenville Site	Sand and Gravel	05/06/03	8
Schoharie						
Conesville	Conesville, Town of	40587	South Mountain Road Gravel Bank	Sand and Gravel	07/28/03	5
Conesville	Conesville, Town of	40588	Robinson Mine	Sand and Gravel	07/28/03	6
St. Lawrence						
Clifton	Harmer, Harry J / Harmer Construction	60901	Vader Mine	Sand and Gravel	08/14/03	5
Fine	Fine, Town of	60625		Sand and Gravel	06/12/03	2
Lawrence	Lawrence, Town of	60999	Town Of Lawrence Sand Mine	Sand and Gravel	07/25/03	5
Lisbon	L & M Enterprises, LLC.	61007		Topsoil	11/26/03	3
Lisbon	Lisbon, Town of	60018	Rupp Pit, Brown Road	Sand and Gravel	10/20/03	6

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
St. Lawrence						
Lisbon	Lisbon, Town of	60303	Spearance Pit	Sand and Gravel	10/20/03	5
Madrid	Green Island Construction Co Inc	60989	Stone Pit	Sand and Gravel	07/11/03	4
Madrid	Green Island Construction Co Inc	60992	Thrana Mine	Sand and Gravel	07/16/03	9
Madrid	Green Island Construction Co Inc	60994	Gordon Mine	Sand and Gravel	07/16/03	3
Massena	J E Sheehan Contracting Corp	60912	South Raquette Mine	Clay	08/12/03	54
Norfolk	Curran Logging Inc	60879	Norfolk Mine	Sand and Gravel	07/10/03	20
Norfolk	Fiacco & Riley Construction Inc	60670	Zagrobely Pit	Clay	07/02/03	11
Pierrepont	Spellacy, Shawn	60721	Spellacy Gravel Pit	Sand and Gravel	08/28/03	6
Pierrepont	St. Lawrence Zinc Company, LLC	60263	Pierrepont Mine	Zinc	02/13/03	36
Potsdam	Frank Randall & Sons Inc	60336	Bannister Sand Pit	Sand and Gravel	06/16/03	3
Russell	Russell, Town of	60735	S. Russell Gravel Pit	Sand and Gravel	06/12/03	2
Stockholm	Green Island Construction Co Inc	60959	Rutley Route 11	Sand and Gravel	08/13/03	6
Steuben						
Wayland	Steuben County DPW	80488	Sauerbier Pit	Sand and Gravel	12/09/03	11.4
Suffolk						
Brookhaven	Vara Enterprises Inc	10049	Vara Enterprises	Sand and Gravel	04/03/03	16
Sullivan						
Bethel	Gala Sand & Gravel Inc	30531	Ballard Rd Mine	Sand and Gravel	08/22/03	15
Tompkins						
Enfield	Hoover, Kenneth And Nancy	70056	Bailey Pit - NYS Route 327	Sand and Gravel	06/29/03	14
Lansing	Reeves Brothers Trucking	70707	Salmon Creek Mine, Salmon Creek Roa	Sand and Gravel	01/23/03	7
Newfield	Laine, Edward	70618	Edward Laine Farm Pit, Taggert Rd.	Sand and Gravel	09/23/03	2
Ulster						
Gardiner	Majestic Underground Inc	30583		Sand and Gravel	10/30/03	2
New Paltz	K K G Realty Corp	30554	Hickory Ridge Site	Shale	08/20/03	2
Part	Palisades Interstate Park Commission	30574	Wolfs Jaw Shale Bank	Shale	06/09/03	1
Wawarsing	Dutchess Quarry & Supply Co Inc	30029	Wawarsing Quarry	Sand and Gravel	08/25/03	21
Warren						
Chester	Perkins, Floyd & Ardell	50179	Perkins Pit	Sand and Gravel	05/13/03	3

Mines With Final Reclamation During 2003

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Washington						
Greenwich	Greenwich Ready Mix Inc	50023	Greenwich Ready Mix-Main Bank	Sand and Gravel	07/09/03	29
Wayne						
Arcadia	Pecoy, Edward	80801	Pecoy Property	Topsoil	06/13/03	0.5
Wyoming						
Gainesville	Gainesville, Town of	90533	Shearing Gravel Pit	Sand and Gravel	09/10/03	11.4
Perry	Perry, Town of	90055	Town Gravel Pit	Sand and Gravel	09/09/03	44

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Albany						
Bluestone	1	0	86	40	0	40
Clay	2	3	111	49	8	41
Limestone	2	0	1,116	764	0	764
Sand and Gravel	12	20	704	549	250	300
Shale	2	2	103	104	21	83
Topsoil	0	1	22	22	22	0
County Totals	19	26	2,143	1,528	301	1,228
Allegany						
Bluestone	0	0	27	0	0	0
Clay	1	1	19	7	4	3
Glacial Till	0	2	3	2	2	0
Sand and Gravel	52	32	1,392	725	149	576
Sandstone	1	0	13	4	0	4
Shale	0	0	3	3	3	0
Stone	0	0	0	1	0	1
Topsoil	1	0	11	5	0	5
County Totals	55	35	1,468	747	158	589
Broome						
Bluestone	14	2	223	171	12	159
Clay	0	2	34	6	6	0
Glacial Till	0	3	19	19	19	0
Sand and Gravel	25	25	1,656	1,441	497	944
Sandstone	0	0	4	4	0	4
Shale	1	0	25	19	7	12
Topsoil	0	1	3	3	3	0
County Totals	40	33	1,964	1,664	544	1,120
Cattaraugus						
Clay	0	2	42	16	16	0
Glacial Till	0	2	14	8	8	0
Peat	1	0	10	3	0	3
Sand and Gravel	72	38	4,649	2,168	560	1,600
Shale	1	3	21	21	15	6
Topsoil	0	1	16	17	15	2
County Totals	74	46	4,752	2,233	614	1,611
Cayuga						
Clay	1	2	88	22	17	5
Glacial Till	1	1	26	26	6	20
Limestone	1	0	225	74	0	74
Sand and Gravel	27	31	805	540	221	319
Shale	0	1	0	0	0	0
Topsoil	0	0	56	56	0	56
County Totals	30	35	1,200	718	244	474
Chautauqua						
Clay	1	2	82	73	44	29
Glacial Till	0	2	35	28	28	0

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Chautauqua						
Peat	0	0	7	0	0	0
Sand and Gravel	58	69	1,797	1,031	518	505
Sandstone	1	0	28	12	0	12
Topsoil	0	3	30	33	31	2
County Totals	60	76	1,979	1,177	621	548
Chemung						
Clay	0	1	4	4	4	0
Glacial Till	0	1	0	6	6	0
Sand and Gravel	27	18	737	619	130	489
Topsoil	2	0	34	30	0	30
County Totals	29	20	775	659	140	519
Chenango						
Bluestone	4	0	36	27	2	25
Clay	0	1	13	1	1	0
Sand and Gravel	36	40	1,309	887	222	665
Shale	4	3	16	22	9	13
Topsoil	0	1	9	0	0	0
County Totals	44	45	1,383	937	234	703
Clinton						
Clay	0	2	2	4	4	0
Granite	2	0	156	23	0	23
Limestone	1	1	16	8	3	5
Sand and Gravel	54	40	1,879	978	275	703
Stone	1	0	164	102	0	102
Topsoil	1	3	25	37	27	10
County Totals	59	46	2,242	1,153	309	844
Columbia						
Clay	0	6	48	111	111	0
Limestone	2	0	1,299	357	0	357
Peat	2	8	77	72	39	33
Sand and Gravel	36	20	1,212	880	230	650
Shale	0	1	3	3	3	0
County Totals	40	35	2,639	1,423	383	1,040
Cortland						
Glacial Till	0	3	9	24	24	0
Sand and Gravel	20	28	989	670	359	311
Shale	0	1	1	1	1	0
Topsoil	0	0	20	20	0	20
County Totals	20	32	1,019	715	384	331
Delaware						
Bluestone	40	1	366	296	12	284
Clay	1	0	5	4	0	4
Sand and Gravel	35	30	742	561	190	372
Sandstone	1	0	128	123	0	123

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Delaware						
County Totals	77	31	1,242	984	202	783
Dutchess						
Clay	0	0	0	0	0	0
Dolostone	1	0	682	682	0	682
Glacial Till	0	1	0	0	0	0
Granite	0	0	0	0	0	0
Limestone	1	0	95	95	0	95
Marble	1	0	2	2	0	2
Sand and Gravel	58	53	2,912	2,287	1,096	1,191
Stone	0	1	70	70	70	0
Topsoil	0	0	0	0	0	0
County Totals	61	55	3,761	3,136	1,166	1,970
Erie						
Clay	5	10	475	247	189	57
Glacial Till	0	3	93	66	65	1
Gypsum	0	0	17	0	0	0
Limestone	4	0	1,181	511	0	511
Sand and Gravel	42	26	2,916	1,665	659	1,006
Shale	1	0	44	4	0	4
Topsoil	1	2	248	143	138	5
County Totals	53	41	4,974	2,636	1,051	1,584
Essex						
Clay	0	1	3	3	3	0
Granite	2	0	100	49	1	48
Iron Ore	0	1	138	138	138	0
Limestone	1	2	7	9	4	5
Sand and Gravel	44	19	995	495	126	369
Stone	1	0	256	36	0	36
Topsoil	0	1	0	10	10	0
Wollastonite	3	0	226	221	0	221
County Totals	51	24	1,725	961	282	679
Franklin						
Clay	1	0	5	5	0	5
Granite	1	0	108	67	0	67
Sand and Gravel	67	31	1,024	694	143	551
Sandstone	2	0	53	18	0	18
Topsoil	0	1	8	8	8	0
County Totals	71	32	1,198	792	151	641
Fulton						
Glacial Till	0	1	0	2	2	0
Sand and Gravel	27	22	870	508	175	333
Topsoil	0	1	8	7	7	0
County Totals	27	24	878	517	184	333

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Genesee						
Clay	1	1	17	13	8	5
Gypsum	1	0	15	11	0	11
Limestone	6	0	1,156	849	0	849
Marl	1	1	29	29	23	7
Sand and Gravel	18	11	1,513	705	275	431
County Totals	27	13	2,729	1,607	305	1,302
Greene						
Clay	0	1	12	12	12	0
Limestone	3	0	2,948	692	0	692
Sand and Gravel	12	10	263	221	66	155
Sandstone	1	1	129	18	4	14
Shale	6	3	279	192	21	171
Topsoil	0	1	8	8	8	0
County Totals	22	16	3,639	1,143	111	1,032
Hamilton						
Sand and Gravel	21	17	249	204	82	122
County Totals	21	17	249	204	82	122
Herkimer						
Clay	0	8	66	66	66	0
Dolostone	1	0	50	37	0	37
Limestone	2	0	170	125	0	125
Sand and Gravel	49	54	1,908	1,309	247	1,062
Topsoil	1	1	17	9	3	6
County Totals	53	63	2,211	1,546	316	1,230
Jefferson						
Clay	1	8	98	133	132	1
Granite	1	0	15	9	0	9
Limestone	15	5	904	643	13	630
Peat	1	1	23	14	5	9
Sand and Gravel	64	97	2,243	1,758	775	983
Shale	1	0	2	2	0	2
Topsoil	3	8	181	181	166	16
County Totals	86	119	3,465	2,740	1,091	1,649
Lewis						
Clay	0	3	6	6	6	0
Limestone	1	0	20	3	0	3
Sand and Gravel	41	62	875	720	272	448
Shale	4	3	27	27	18	9
Topsoil	0	1	0	3	3	0
Wollastonite	1	0	54	54	5	49
County Totals	47	69	982	812	303	509
Livingston						
Limestone	1	0	429	285	0	285
Salt	2	0	9,055	727	30	697

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Livingston						
Sand and Gravel	23	11	1,186	937	117	820
County Totals	26	11	10,670	1,949	147	1,802
Madison						
Clay	0	1	10	1	1	0
Glacial Till	0	1	18	18	18	0
Limestone	3	0	447	200	0	200
Peat	0	1	70	5	5	0
Sand and Gravel	22	16	836	490	181	309
Topsoil	0	1	49	0	0	0
County Totals	25	20	1,430	714	205	509
Monroe						
Dolostone	2	0	247	220	0	220
Glacial Till	0	1	25	25	25	0
Limestone	1	0	298	242	0	242
Sand and Gravel	11	10	1,176	765	447	319
County Totals	14	11	1,745	1,252	472	780
Montgomery						
Clay	1	0	4	4	0	4
Dolostone	2	0	382	320	0	320
Limestone	0	1	7	7	7	0
Sand and Gravel	6	2	233	170	21	149
Stone	1	0	112	73	0	73
County Totals	10	3	738	574	28	546
Multicounty						
Limestone	1	0	155	141	0	141
County Totals	1	0	155	141	0	141
Multi-Region						
Salt	1	0	13,417	9,260	0	9,260
Sand and Gravel	0	0	1	0	0	0
Shale	0	0	0	0	0	0
County Totals	1	0	13,418	9,260	0	9,260
Nassau						
Sand and Gravel	0	1	273	273	273	0
County Totals	0	1	273	273	273	0
Niagara						
Clay	12	6	961	393	71	322
Glacial Till	0	1	10	33	10	23
Limestone	3	0	1,058	538	49	489
Sand and Gravel	3	13	290	191	159	32
Topsoil	1	0	13	15	0	15
County Totals	19	20	2,332	1,170	289	881

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Oneida						
Clay	0	3	20	25	25	0
Granite	1	0	100	100	0	100
Industrial Sand	3	0	634	102	0	102
Limestone	1	0	342	264	0	264
Sand and Gravel	58	73	2,383	1,414	626	788
Shale	0	2	6	6	6	0
Topsoil	1	1	12	12	8	4
County Totals	64	79	3,497	1,922	665	1,258
Onondaga						
Clay	3	1	41	30	8	22
Glacial Till	2	14	214	199	189	10
Limestone	7	0	1,886	1,507	100	1,407
Sand and Gravel	30	23	1,520	1,140	519	621
Shale	0	4	80	18	18	0
Topsoil	3	3	179	150	95	55
County Totals	45	45	3,920	3,044	929	2,115
Ontario						
Clay	2	2	51	51	14	37
Glacial Till	1	0	96	71	0	71
Limestone	2	0	540	347	0	347
Sand and Gravel	40	16	2,593	1,802	703	1,099
County Totals	45	18	3,280	2,271	718	1,553
Orange						
Clay	0	0	0	5	0	5
Dolostone	2	0	80	80	0	80
Glacial Till	0	1	3	2	2	0
Limestone	0	0	0	30	0	30
Sand and Gravel	44	32	1,534	1,325	596	729
Shale	5	0	178	71	0	71
County Totals	51	33	1,795	1,513	598	915
Orleans						
Clay	0	4	64	60	60	0
Limestone	2	0	404	260	0	260
Sand and Gravel	14	6	684	267	65	202
Sandstone	4	0	185	176	0	176
County Totals	20	10	1,337	763	125	638
Oswego						
Clay	0	0	5	0	0	0
Glacial Till	1	4	82	73	33	40
Industrial Sand	0	1	8	5	2	3
Sand and Gravel	100	58	4,617	2,766	1,243	1,511
Sandstone	1	0	7	4	0	4
Topsoil	3	2	134	109	32	77
County Totals	105	65	4,853	2,957	1,310	1,635

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Otsego						
Bluestone	0	0	5	5	0	5
Clay	0	3	7	10	10	0
Sand and Gravel	32	14	884	645	170	476
Shale	1	1	5	1	0	1
County Totals	33	18	901	661	180	482
Putnam						
Glacial Till	0	0	0	0	0	0
Granite	0	0	8	8	0	8
Limestone	1	0	38	38	0	38
Sand and Gravel	3	2	39	47	26	21
County Totals	4	2	85	93	26	67
Rensselaer						
Clay	2	3	80	77	16	61
Limestone	1	0	71	29	0	29
Sand and Gravel	47	34	2,173	1,632	269	1,363
Sandstone	3	0	482	119	0	119
Shale	0	1	6	6	6	0
County Totals	53	38	2,813	1,863	291	1,572
Rockland						
Dolostone	1	0	184	145	0	145
Granite	0	0	225	0	0	0
Trap Rock	3	0	407	348	0	348
County Totals	4	0	816	493	0	493
Saratoga						
Clay	4	3	57	44	20	24
Dolostone	1	0	71	67	0	67
Industrial Sand	0	1	0	5	5	0
Limestone	1	0	83	79	0	79
Sand and Gravel	55	40	2,523	1,434	309	1,125
Shale	1	1	12	6	1	5
Topsoil	2	1	36	35	24	11
County Totals	64	46	2,782	1,670	359	1,310
Schenectady						
Clay	0	1	15	15	15	0
Limestone	1	0	3	3	0	3
Peat	0	0	0	15	0	15
Sand and Gravel	6	6	321	290	78	212
Sandstone	0	0	4	4	0	4
Shale	1	1	26	11	6	5
County Totals	8	8	369	338	99	239
Schoharie						
Limestone	4	0	525	366	0	366
Sand and Gravel	10	9	183	137	47	90
Sandstone	0	0	15	15	0	15

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Schoharie						
Shale	3	3	27	22	6	16
County Totals	17	12	750	540	53	487
Schuyler						
Sand and Gravel	12	9	477	361	45	316
Topsoil	0	1	2	2	2	0
County Totals	12	10	479	363	47	316
Seneca						
Clay	2	0	102	102	0	102
Limestone	1	0	424	173	0	173
Sand and Gravel	3	3	162	122	31	91
Shale	0	1	2	2	2	0
County Totals	6	4	689	398	33	365
St. Lawrence						
Clay	2	8	202	195	147	48
Dolostone	4	0	586	394	5	389
Granite	1	0	4	4	0	4
Limestone	1	0	24	24	0	24
Marble	1	0	173	84	2	82
Sand and Gravel	100	110	2,569	1,889	869	1,020
Sandstone	2	0	34	9	0	9
Talc	2	0	194	214	40	174
Topsoil	4	14	317	279	211	68
Zinc	1	3	1,441	881	449	432
County Totals	118	135	5,543	3,972	1,723	2,249
Statewide						
Bluestone	0	1	0	1	1	0
Clay	0	2	26	46	46	0
Emery	0	1	10	10	10	0
Glacial Till	0	30	18	196	196	0
Industrial Sand	0	1	90	90	90	0
Limestone	0	1	0	6	6	0
Peat	0	4	3	149	149	0
Salt	0	1	0	50	50	0
Sand and Gravel	0	301	557	1,887	1,630	257
Sandstone	0	1	0	0	0	0
Shale	0	9	14	29	29	0
Stone	0	1	0	4	4	0
Topsoil	0	4	10	53	53	0
County Totals	0	357	728	2,521	2,264	257
Steuben						
Clay	0	1	0	25	25	0
Glacial Till	0	2	11	13	13	0
Sand and Gravel	77	35	2,716	2,090	306	1,784
Sandstone	1	0	64	55	0	55
Topsoil	0	2	32	32	13	19

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Steuben						
County Totals	78	40	2,823	2,215	357	1,858
Suffolk						
Sand and Gravel	45	14	1,628	1,473	360	1,127
County Totals	45	14	1,628	1,473	360	1,127
Sullivan						
Clay	1	0	5	5	0	5
Sand and Gravel	26	29	1,263	780	303	477
Sandstone	2	0	620	428	0	428
Shale	2	2	14	10	4	6
County Totals	31	31	1,902	1,223	307	915
Tioga						
Glacial Till	0	2	3	5	5	0
Sand and Gravel	35	27	2,198	1,463	506	956
Topsoil	0	1	14	14	14	0
County Totals	35	30	2,215	1,482	525	956
Tompkins						
Clay	0	1	4	4	4	0
Glacial Till	1	3	25	28	11	17
Limestone	1	0	126	126	103	23
Sand and Gravel	12	20	521	342	145	197
Sandstone	1	0	20	12	0	12
Topsoil	0	2	2	5	5	0
County Totals	15	26	698	517	268	249
Ulster						
Bluestone	3	0	56	26	0	26
Clay	3	3	53	53	36	17
Dolostone	1	0	397	11	0	11
Limestone	3	0	361	193	0	193
Sand and Gravel	27	31	949	637	317	320
Sandstone	1	1	15	15	4	11
Shale	14	14	278	202	79	123
County Totals	52	49	2,109	1,137	436	701
Warren						
Garnet	1	1	180	162	55	107
Limestone	2	0	252	97	0	97
Sand and Gravel	35	15	904	528	78	450
County Totals	38	16	1,336	787	133	654
Washington						
Clay	1	2	52	52	47	5
Dolostone	1	0	197	64	0	64
Granite	4	0	143	53	0	53
Limestone	2	0	160	115	0	115
Sand and Gravel	42	34	1,240	761	277	484

Mine Commodities, 2003*

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Washington						
Sandstone	2	1	19	15	1	14
Shale	2	1	18	10	4	6
Stone	1	0	72	36	0	36
Topsoil	1	2	82	41	20	22
County Totals	56	40	1,982	1,146	348	798
Wayne						
Clay	0	1	28	28	28	0
Dolostone	1	0	167	135	0	135
Glacial Till	0	4	25	25	25	0
Limestone	1	0	134	110	0	110
Sand and Gravel	46	34	2,273	1,399	561	839
Topsoil	0	1	65	1	1	0
County Totals	48	40	2,692	1,698	614	1,084
Westchester						
Emery	0	1	5	5	5	0
Sand and Gravel	0	3	21	18	18	0
Shale	1	0	4	4	0	4
Trap Rock	0	0	2	0	0	0
County Totals	1	4	32	27	23	4
Wyoming						
Clay	0	1	8	12	8	4
Sand and Gravel	28	20	916	403	205	198
Topsoil	0	1	21	21	15	6
County Totals	28	22	945	436	228	208
Yates						
Clay	1	1	35	33	18	15
Glacial Till	1	0	24	8	0	8
Sand and Gravel	11	5	311	222	79	143
County Totals	13	6	370	263	97	166
State Totals	2,251	2,197	132,744	83,150	23,702	59,431