



Department of  
Environmental  
Conservation

# New York State Mineral Resources

## 2020

Kathy Hochul, Governor | Basil Seggos, Commissioner



# Division of Mineral Resources 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 annual report is dedicated to the staff who provided faithful service to the Division of Mineral Resources but who are no longer with us.

This report was produced by the  
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# Executive Summary

Oil and gas production, underground gas storage, and solution salt mining occur in the western half of the state, including the Finger Lakes region, while conventional mining occurs in every region of the state except in Department of Environmental Conservation (DEC) Region 2. Due to the differences in legal reporting requirements, the types of statistics presented for the two Division of Mineral Resources (DMN) programs are not identical.

Due to social distancing requirements, as well as restrictions on travel and expenditures related to the COVID-19 pandemic, there was a decrease in field inspections for both programs in 2020.

## Oil, Gas, and Solution Mining

**Inspections** – Staff traveled 61,409 miles to perform 5,759 inspections.

### Permits and Completions

<b>Gas:</b>	Permits	0	Completions	0
<b>Oil:</b>	Permits	83	Completions	78
<b>Other:</b>	Permits	4	Completions	3
<b>Total:</b>	Permits	87	Completions	81

<b>Wells Plugged (All Types)</b>	184
<b>Wells Plugged by Operators</b>	112
<b>Wells Plugged by DMN</b>	68
<b>Wells Plugged by USEPA</b>	4
<b>Wells Reported (All Types)</b>	14,612
<b>Wells to Date (All Types)</b>	75,000

Majority pre-regulation (plugging status is unknown for most of these wells).

### Production and Market Value

<b>Gas</b>	9.6 bcf	Value down	≈13.5%
<b>Oil</b>	228,156 bbl	Value up	≈22%
<b>Total O&amp;G Market Value</b>			\$28.4 million

**State Leasing** – 76 total leases were in effect, covering 35,846 acres; 216 producing wells associated with 63 leases paying production royalties.

### Revenues from Oil and Gas

<b>State Revenues</b>	\$72,122
<b>Local Govt. Taxes (est.)</b>	\$0.9 million
<b>Landowner Royalties (est.)</b>	\$3.5 million

**Underground Natural Gas Storage** – 27 facilities were 78% full at year-end.

<b>Total Storage Capacity</b>	245	bcf
<b>Working Gas Capacity</b>	130.3	bcf
<b>Max. Deliverability</b>	2.76	bcf/day

**Solution Mining** – Five facilities produced 1.87 billion gallons of brine.

**Financial Security** – In 2020, New York held \$20.26 million to guarantee well plugging and site reclamation.

## Mined Land Reclamation

**Inspections** – Staff traveled 55,098 miles to perform 1,330 mine inspections.

### Permits Issued

<b>New Permits</b>	30
<b>Renewals and Modifications</b>	380
<b>Total Permits</b>	410

**Active Mines** 1,801

**Estimated Economic Impact** \$4.98 Billion

**Annual Regulatory Fees** \$4.16 Million

### Common Mine Types

<b>Sand and Gravel</b>	1,432
<b>Bluestone</b>	97
<b>Limestone</b>	88

### Owner Type

<b>Industry</b>	1,459
<b>Town</b>	307
<b>County</b>	28
<b>State</b>	7

**Net Affected Acreage** 50,201

**Life-of-Mine Acreage** 132,140

**Reclaimed Acreage, 2019** 911

**Reclaimed Since 1975** 439,605

**Financial Security** – In 2020, New York held \$315.2 million to guarantee mine site reclamation.

# Oil, Gas, and Solution Mining

## 2020 Summary and Trends

### Production, Market Value, and Economic Impact

New York State natural gas production in 2020 was 9.6 billion cubic feet (bcf), down approximately 13.5% from the previous year. Trenton-Black River production was down slightly from 2019 at 2.4 bcf, accounting for about 25% of 2020 total gas production. Gas production from the Medina Formation decreased by more than 18% to 4.5 bcf, accounting for nearly 47% of 2020 total gas production. Oil production increased approximately 22% from the previous year to 228,156 barrels (bbls) in 2020.

The oil and gas produced in New York State in 2020 is valued at an estimated \$28.4 million. Approximately \$0.9 million was generated in local government taxes and nearly \$3.5 million was generated in royalties for landowners.

### Wells

In 2020, New York well operators reported 14,612 wells (all regulated well types). Most of these wells were drilled to explore for and produce oil or natural gas. Other regulated well types reported in the 2020 total include underground gas storage, solution salt mining, geothermal, brine disposal, monitoring, and stratigraphic. The total number of completed wells decreased 45% from the previous year to 81.

In 2020, a total of 201 operators reported 2,858 wells with zero production for the entire year. This was in addition to more than 7,000 orphaned and unplugged wells in DEC's records.

At the end of 2020, New York held \$20.26 million in financial security to guarantee well plugging and site reclamation.

### Regulatory Activity

In 2020, DMN issued 87 drilling permits, and operators plugged 112 wells in accordance with DMN-issued plugging permits. In addition, 68 orphaned wells were plugged by DMN and 4 orphaned wells were plugged by the United States Environmental Protection Agency (EPA). Total drilled depth of all wells for the year was approximately 138,229 feet (i.e., over 26 miles).

No compulsory integration hearings were conducted in 2020.

DMN's Oil and Gas staff traveled 61,409 miles to perform 5,759 inspections in 2020. Staff inspect well sites:

- during the permit application review;
- during drilling and plugging work, with emphasis on cementing operations;
- to ensure regulatory requirements were followed and that violations, if any, were remedied;
- during production and prior to ownership transfers to ensure compliance;
- to score abandoned wells for assessment of relative threats to the environment and public safety in support of well-plugging initiatives;
- to ensure that reclamation meets requirements; and
- to investigate complaints.

## Permits, Completions, and Inspections

### Permits to Drill, Deepen, Plug Back, and Convert

DMN issued 87 permits, down nearly 54% from 2019:

- 83 oil,
- 3 brine,
- 1 stratigraphic,
- 79 oil well drilling permits for Cattaraugus County,
- 4 oil well drilling permits for Chautauqua County,
- 3 brine well permits for Wyoming County, and
- 1 stratigraphic well permit for Chenango County.

### Wells Spud and Completions

- The number of wells spud (started) in 2020 was 61.
- The total number of completions decreased more than 45% from 148 in 2019 to 81 in 2020.
- There were no gas wells completed in 2020.
- Oil well completions decreased 43%, from 137 in 2019 to 78 in 2020.
- Completions for other regulated well types in 2020 totaled 3.

### Inspections

- In 2020, Oil and Gas staff performed 5,759 inspections, down 1,831 from the previous year, which is approximately 24% less than 2019.

## Drilling Permits, Well Completions and Well Inspections, 2011–2020



Figure 1 – Drilling Permits, Well Completions, and Well Inspections, 2011–2020

## Oil and Gas Production

### New York State Oil and Gas Production 2011–2020

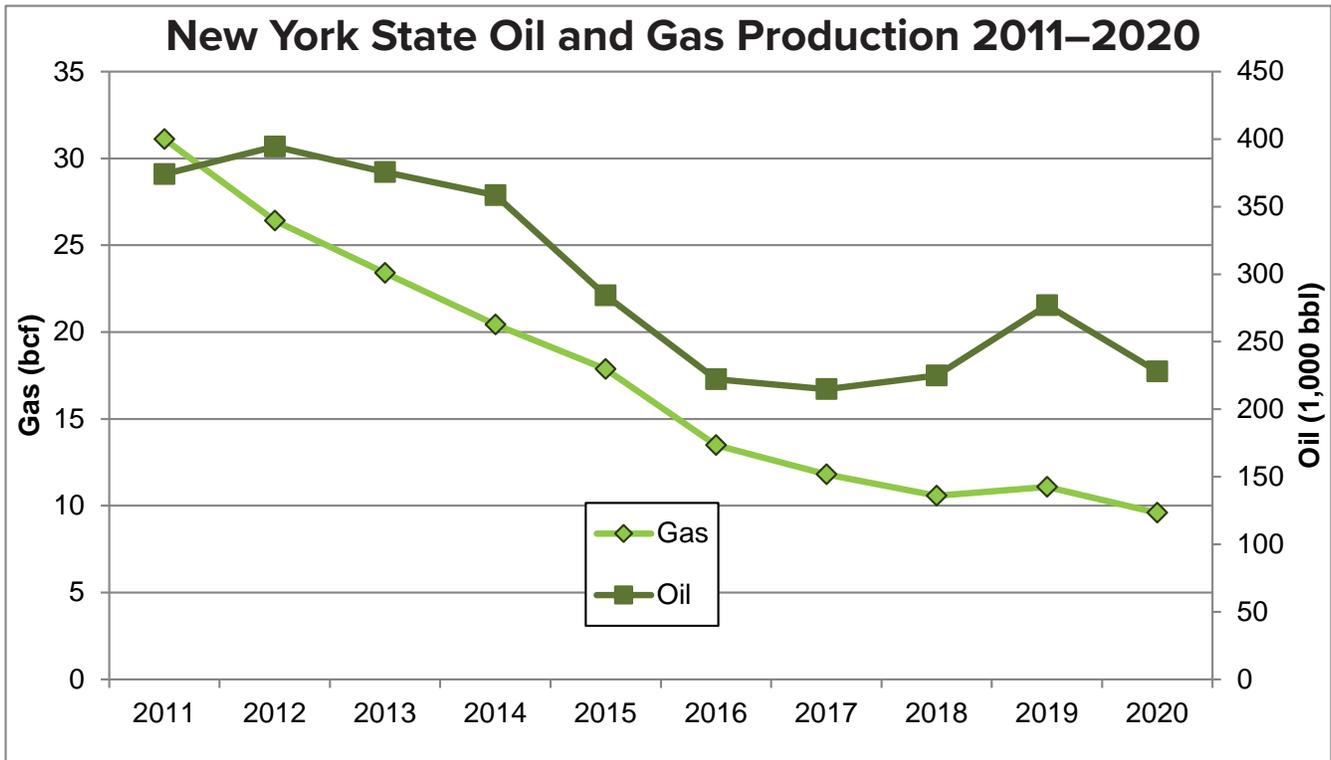


Figure 2 – New York State Oil and Gas Production, 2011–2020

## Producing Formation for NY Natural Gas, 2015–2020

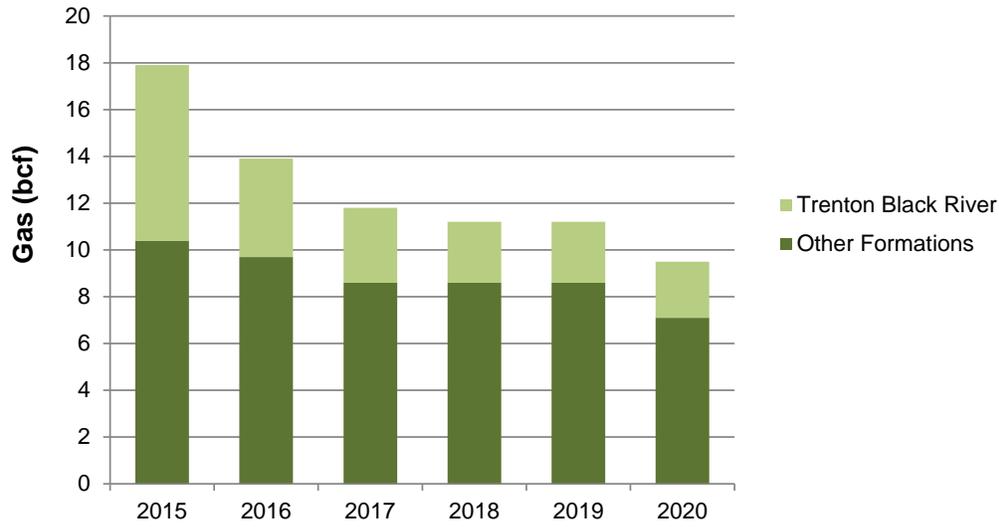


Figure 3 – Producing Formations for New York Natural Gas, 2015–2020

## New York State Well Types and Locations

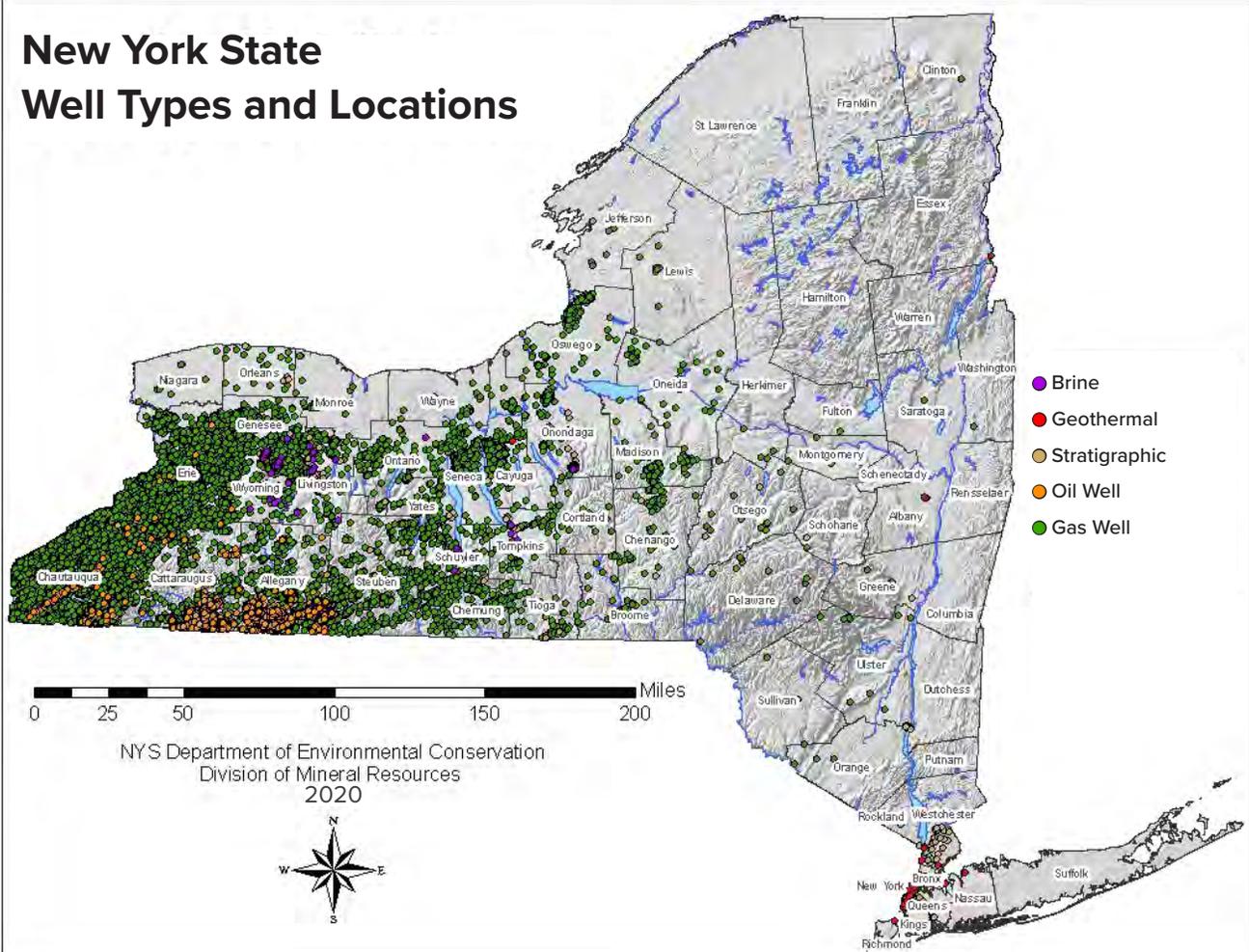


Figure 4 – Map of Well Types and Locations

# State Land Oil and Gas Leasing

## Overview

In 2020, DMN administered 76 leases on 35,846 acres of New York State-owned land in Allegany, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Erie, Ontario, Schuyler, Seneca, and Steuben counties. Sixty-three of the 76 leases were production leases, with 216 wells located on or unitized with state land paying production royalties. The remaining 13 were gas-storage leases paying storage rental fees.

## Production Leasing

Revenues from the state's 63 oil and gas production leases on state lands totaled \$45,541 in 2020, a decrease of almost \$8,000 from 2019. The decrease in production lease revenue paid to the state from the previous year is attributed primarily to delinquent lease

payments, decreases in oil and gas production volumes, lower market prices, and modifications to internal accounting practices.

Although nearly 59,000 acres of state land have been leased for production since 1999, only 37 (0.06%) of these acres have been disturbed by well drilling, and access road and pipeline construction.

## Storage Leasing

DMN currently manages 13 gas storage leases incorporating state lands. Revenues from these storage leases totaled \$66,581 in 2020, an increase of \$1,758 from 2019. The minor increase was due primarily to inflation adjustments associated with one lease.

In 2020, at the request of Columbia Gas Transmission, LLC (Columbia), DMN agreed to negotiate a three-year lease for its Greenwood/North Greenwood facility to replace the two-year interim lease that was scheduled to expire on its own terms on March 31, 2021. The facility



Figure 5 – Total Leasing Revenues, 2016–2020<sup>1</sup>

<sup>1</sup> The Total Leasing Revenue reported for 2019 in Figure 5 was misreported last year as \$161,535 and has subsequently been corrected to \$78,255, as DMN no longer tracks or reports on revenue generated from National Fuel Gas Supply Corporation's Allegany State Park lease within the limestone storage field.

encompasses 1,492.3 acres of state lands in Rock Creek and Greenwood State Forests and uses 9 existing wells to store natural gas in the Oriskany Formation. The new three-year lease, which has an expiration date of March 31, 2024, provides increased annual revenue to the state. It also addresses provisions of the Climate Leadership and Community Protection Act, notably the requirement that Columbia must perform periodic monitoring of facility elements (e.g., wells, pipelines) for methane leaks and quickly remediate any leaks identified.

### State Acreage under Lease at Year-End 2020

- DEC State Forests – 32,383 acres
- DEC Wildlife Management Areas– 1,031 acres
- Other New York State agencies – 2,432 acres

## Underground Gas Storage

Natural gas and liquefied petroleum gas (LPG) are stored underground to help meet seasonal and peak demand for gas while providing a relatively stable market for produced gas. Generally, gas is injected into wells when consumer demand is low and withdrawn when demand increases during times of peak usage over days or seasons. Natural gas is stored in New York State in depleted gas reservoirs and salt caverns, while LPG is stored in salt caverns and a mined underground cavern.

### 2020

There are 27 natural gas storage facilities and 3 LPG storage facilities in New York State, concentrated in the central and western regions of the state, near both gas production fields and gas transmission facilities.

### Natural Gas Storage

- Natural gas injection/withdrawal and monitoring/observation wells: 940
- Total storage capacity: 245.0 bcf
- Utilization: 73.23 bcf injected, 69.05 bcf withdrawn
- Maximum daily deliverability: 2.76 bcf
- Working gas capacity: 130.3 bcf
- Storage at year-end: 191.3 bcf
- Storage capacity in use at year-end: 78%

Seven different companies operate the 27 underground natural gas storage fields in New York State, with more than half of the storage fields operated by National Fuel Gas Supply Corporation. Depleted natural gas reservoirs in the Onondaga, Oriskany, and Medina Formations are used by 26 of the facilities, and 1 facility uses a solution-mined cavern in the Syracuse Formation. These formations range in depth from 1,500 to 5,000 feet below the earth's surface.

### Liquefied Petroleum Gas Storage

- LPG injection/withdrawal wells: 13
- Total storage capacity: 186.0 million gallons
- Utilization: 250.5 million gallons injected; 221.6 million gallons withdrawn

New York State's three LPG underground storage facilities are located in Cortland, Steuben, and Schuyler counties. Finger Lakes LPG Storage, LLC, is the operator of the facility in Steuben County, and Enterprise Products Operating, LLC, is the operator of the facilities in Cortland and Schuyler counties.

## Solution Salt Mining

Approximately 8,500 square miles of New York State are underlain by bedded rock salt of potential commercial thickness. The state's salt deposits occur layered with shale, dolomite, and anhydrite in the lower part of the Silurian Salina Group. Salt is mined in the state via two methods: underground rock salt mining and solution mining. New York State typically ranks third in total salt mined among the salt-producing states in the United States.

### Solution Mining – 2020

Solution mining operations for salt recovery, in the form of brine, currently take place at two fields in Schuyler County and three fields in Wyoming County.

- Plugged wells at current facilities: 323
- Unplugged wells at current facilities: 151
- Volume injected: 1.94 billion gallons
- Volume withdrawn: 1.91 billion gallons

### How the Salt Is Used

Brine is brought to the surface for evaporation or chemical manufacturing. Salt mined in New York State is used for chlorine and soda ash production, as well as for food products and for a wide range of market segments, including agricultural, water conditioning, industrial

# Underground Gas Storage and Solution Salt Mining Fields

## Well Type

- Solution Mining
- ▲ LPG Storage
- Natural Gas Storage

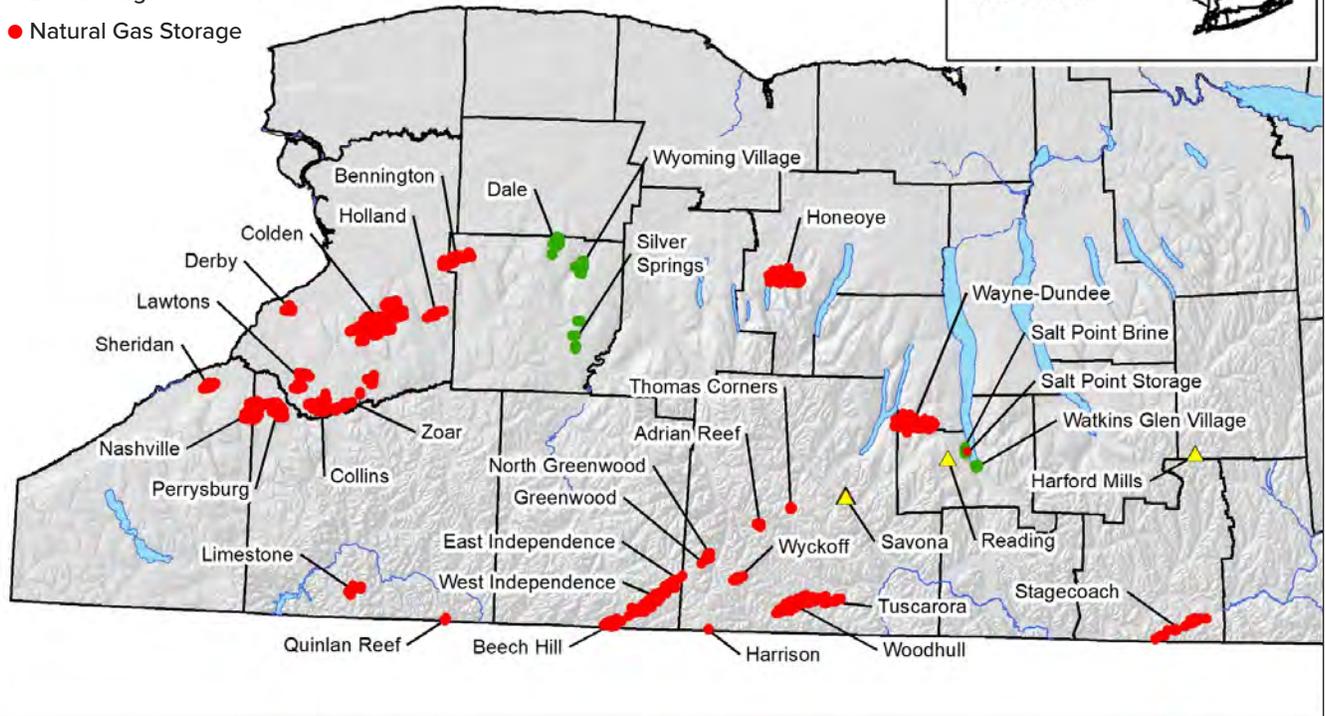
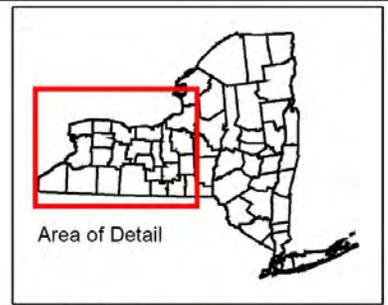


Figure 6 – Map of Underground Gas Storage and Solution Mining Fields

and chemical, and packaged ice control. Customers range from home improvement, hardware, grocery, and convenience store retailers to food makers/processors, water conditioning dealers, and food service and general wholesale distributors.

DEC estimates that the annual value of salt production from solution mining in New York State is approximately \$275 million.

## Well Plugging

At the end of their economic lives, wells must be plugged in accordance with statutory and regulatory requirements. To ensure the sufficiency of funds for well plugging, DMN holds financial security in amounts based on an operator's number of wells and their depths. At year-end 2020, DMN held \$20.26 million in financial security to guarantee well plugging and well site reclamation.

## Plugging Permits

In 2020, operators plugged 112 wells in accordance with requirements in DMN-issued plugging permits. Of the 112 wells plugged in 2020:

- 77 (69%) of the plugged wells were oil wells in western New York,
- 27 (24%) were comprised of a mix of other regulated well types (storage, brine, etc.), and
- 8 (7%) were gas wells.

Plugging occurred in 9 counties, with 54% of the plugging jobs in Cattaraugus County, 16% in Schuyler County, 8% in Allegany County, 8% in Steuben County, 6% in Wyoming County, and the remaining 8% in other counties.

## Plugging of Orphaned and Abandoned Wells

Abandoned wells are unplugged wells (primarily oil or gas wells) that have not been operated and maintained in accordance with statute and regulation. Many abandoned wells have fallen into advanced states of disrepair.

Orphaned wells are a subset of abandoned wells; they are unplugged wells that have been abandoned by their original owners or operators, and no legally responsible owner or operator can be identified. These wells exist in all oil and gas producing regions in the United States, including New York State, and they represent a significant part of the nation's legacy of energy production. There are records for more than 7,000 confirmed orphaned and abandoned wells in New York State in DEC's oil and gas database. Most of these wells were drilled prior to the existence of a regulatory framework in New York.

Orphaned wells may present significant public health and environmental hazards. If left unplugged, abandoned wells can provide conduits for oil, gas, and other fluids to migrate between different geologic formations, into aquifers, and to the land surface. Unplugged abandoned wells can also provide a potential route for subsurface methane to escape into the atmosphere, thereby contributing to, and increasing, levels of greenhouse gases. To address these threats, a well plugging program has been developed, consisting of multiple projects extending from the eastern shore of Lake Ontario, through central New York, and along the Southern Tier. In 2020, 72 orphaned wells were plugged by DMN or EPA, the majority of which were oil wells and secondary recovery wells (injection) in Allegany County.

The 72 plugged abandoned wells were distributed over 4 counties:

- Allegany (65 oil and secondary recovery wells plugged; 90% of total);
- Cattaraugus (4 oil wells plugged; 6% of total);
- Erie (2 gas wells plugged; 3% of total); and
- Cayuga (1 gas well plugged; 1% of total).

Of the 72 abandoned wells plugged by DMN or EPA in 2020:

- 68 were plugged by DMN:
  - 65 (96%) were oil and secondary recovery wells in Allegany County,
  - 3 (4%) were gas wells in Erie and Cayuga counties;
- 4 were plugged by EPA:
  - 4 (100%) were oil wells in Cattaraugus County.

### EPA Well Plugging

In 2020, DMN staff continued working with the EPA to plug oil wells with federal funding administered by the United States Coast Guard as authorized under the Oil Pollution Act of 1990 (OPA 90). OPA 90 funding is used to address leaking oil wells that pose imminent threats to navigable waterways. As a direct result of DMN staff efforts, EPA has undertaken numerous plugging projects in New York State since 2005. In 2020, EPA plugged four oil wells in the Town of Carrollton in Cattaraugus County. In conjunction with the well plugging efforts, the well sites were reclaimed.

### Oil and Gas Account

Since 1981, when the New York State Legislature established the Oil and Gas Account (previously the Oil and Gas Fund) to address orphaned oil and gas wells, the state has made significant strides in plugging such wells. The account receives \$100 from every ECL Article 23 Permit to Drill issued by DMN. At year-end 2020, the account held \$40,819.

### New York Works Well Plugging Initiative

New York State's fiscal budget for the 2020–2021 fiscal year (FY) included \$1.75 million for the plugging of orphaned oil and gas wells. This multiyear funding, termed the New York Works Well Plugging Initiative (NYWWPI), has provided significant opportunities to address these legacy oil and gas wells, some of which represent significant threats to public safety and the environment.

To prioritize wells for inclusion in NYWWPI well-plugging projects, DEC uses a scoring rubric that assigns numeric values to various aspects of each well (e.g., location, construction, proximity to sensitive receptors), and then sums the individual values to establish a total score for each well. Higher-scoring wells represent greater potential threats, and those wells are given higher priority for plugging with NYWWPI funding. Consistent with DEC's practice for all well-plugging operations, the land surface around each well is reclaimed to match adjacent areas after plugging. Building on successes from previous years, 68 wells were plugged in 2020 under 4 DEC-initiated NYWWPI well plugging projects.

## Lancaster Well Plugging Project

### **Town of Lancaster, Erie County 1 Gas Well**

The project included the plugging of 1 abandoned gas well, Fee 2 (API 31-029-60001-00-00), which was leaking gas less than 10 feet from a building. In December 2018, the abandoned well was reported to DEC after it was discovered during the excavation of a parking lot. DEC contracted the plugging of Fee 2 in 2019. Plugging operations began in March 2020 and were completed in May 2020.



Photo 1 – Fee 2 (API 31-0029-60001-00-00) – Top, well prior to plugging. Bottom, Fee 2 after well plugging. Final reclamation was in progress.

## Mundt 828 Well Plugging Project

### **Town of Aurora, Erie County 1 Gas Well**

The Mundt 828 Plugging Project consisted of 1 abandoned gas well, Mundt 828 (API 31-029-15791-00-00), located in the Town of Aurora. DEC received several complaints from the public regarding the well leaking gas near a residential building. Due to safety concerns, the well was identified as a priority project. Plugging operations began in May 2020 and were completed that month.



Photo 2 – Mundt 828 (API 31-029-15791-00-00) – Top, abandoned well leaking gas prior to plugging. Bottom, well site during well plugging.

## Old Auburn 1 Well Plugging Project

### **Town of Throop, Cayuga County 1 Gas Well**

The Old Auburn 1 Well Plugging Project (Contract D009811) consisted of 1 gas well, the Old Auburn 1 (API 31-011-01301-00-00), located in the Town of Throop. The well was drilled in 1897, targeting the Trenton Limestone Formation at a total depth of 3,600 feet. At the time of plugging, Old Auburn 1 was the highest scoring orphan well in New York State due to a hydrogen sulfide leak and proximity to wetlands. Plugging operations commenced in June 2020 and were completed in October 2020. The project successfully overcame significant downhole complications, including severely degraded well casing that compromised wellbore integrity and the influx of a large volume of water from the Onondaga Limestone Formation that underlies the project site.



Photo 3 – Old Auburn 1 (API 31-011-01301-00-00) – Top, leaking fluid and hydrogen sulfide gas prior to initiation of DEC plugging efforts. Bottom, after completion of plugging and reclamation.

## Moore Producing Well Plugging Project

### **Towns of Bolivar and Genesee, Allegany County 65 Oil or Injection Wells Plugged in 2020**

The project included the plugging of 87 abandoned oil or injection wells located in Allegany County. As the wells were drilled prior to the existence of a regulatory framework, limited information is available regarding these wells. The well depths ranged from 1,100 feet to 1,200 feet. Plugging operations began in September 2019 and 22 wells were plugged by year-end 2019. The remaining 65 wells were plugged in 2020. All well sites have been reclaimed.



Photo 4 – Top, an abandoned oil well (left) and an abandoned injection well (right) prior to well plugging. Middle and Bottom, well sites after well plugging and reclamation.

# Mined Land Reclamation

## 2020 Summary and Trends

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### Mineral Production, Market Value, and Economic Impact

Mining occurs in every region of New York State, except the New York City area, as shown on the map titled “Mines in New York.” The United States Geological Survey estimated the annual value of New York’s mineral production in 2020 at \$1.87 billion. The estimated economic impact from mining in New York in 2011 (the most recent year for which this data is available) is \$4.98 billion.

Production of the state’s major mined commodities remains relatively constant from year to year. In 2020, New York ranked 16th nationally in value of overall nonfuel mineral production. Nationally, New York ranked first in industrial garnet production and third in salt production. Salt was the leading mineral commodity based on production value, followed by crushed stone and construction sand and gravel. New York remains the sole domestic producer of wollastonite. New York is also a significant producer of masonry cement and Portland cement.

The Center for Governmental Research, Inc. (CGR) document, entitled “The Economic Impact of the New York State Mining and Construction Materials Industry, October 2011,” and prepared for the New York State Geological Survey/New York State Museum, states that the majority of mining in New York is for construction materials used to build and maintain the state’s infrastructure. The mined commodities, in addition to the hot mixed asphalt, ready-mix concrete, and cement industries, were responsible for generating \$1.2 to \$1.3 billion in wages and 28,000 to 30,000 jobs in New York State. CGR estimates the mining and construction materials industry contributes about \$100 million in public sector revenues (sales tax, personal income tax, motor fuel tax, corporate franchise tax, and Mined Land Reclamation Law fees). DMN assessed \$4.16 million in regulatory program fees in 2020, which is \$30,377 more than the amount assessed in 2019.

### Types of Mines and Mineral Usage

The most common mine types in 2020 were sand and gravel (1,432), bluestone (97), and limestone (88). In 2020, New York had 1,801 active mines, a decrease of 20 mines from 2019. Most of New York’s permitted mines produced sand and gravel or other surficial deposits such as glacial till, clay, or topsoil. Sand and

gravel mines account for nearly 80% of DEC-regulated mines. Eighteen of the new mining permits issued in 2020, or 60%, were for sand and gravel.

There were 330 hardrock mines producing material ranging from bluestone, limestone, sandstone, shale, and salt to less-common products such as wollastonite and zinc. Most of New York’s hardrock mines are surface quarries, but there are several permitted underground mines.

The Mineral Information Institute reports that “every American born will consume 3.19 million pounds of minerals, metals, and fuels in their lifetime.” In other words, minerals, metals, and fuels are critical to the existence and prosperity of everyone in the United States. In addition to recycled materials, nearly 40,663 pounds of new minerals must be provided every year for products that every person in the United States uses.

### Permitting and Reclamation Statistics

The number of permitted mines has declined for 21 consecutive years. Mine operators continued to replace production by expanding current mines rather than opening new ones. This downward trend held true for sand and gravel mines, while the total number of permitted hardrock quarries remained nearly the same. Only 30 of the Mined Land Reclamation Permits issued in 2020 were for new facilities.

A total of 50,201 acres were affected by mining in 2020 out of a total approved life-of-mine area of 132,140 acres. All affected acreage must be reclaimed at the conclusion of mining operations. Concurrent reclamation can be accomplished immediately upon completion of a portion or phase of a mine while mining occurs elsewhere within the life-of-mine area, or reclamation of the entire affected area can occur when mining has stopped, known as final reclamation. DMN continues to have success promoting concurrent reclamation, with 621 acres reclaimed at 69 operating mines in 2020. Final reclamation of 290 acres occurred at 45 closed mines, bringing the 2020 total to 911 acres. Roughly 39,605 acres of land affected by mining have been reclaimed since 1975.

In 2020, DMN held \$315.2 million in financial security to guarantee mine site reclamation.

## Inspections

In 2020, DMN Mined Land staff performed 1,330 mine inspections and traveled 55,098 miles. Staff inspect mine sites:

- during permit application review,
- during operation for general compliance,
- to ensure that violations were remediated,
- to ensure that reclamation met requirements, and
- to investigate complaints.

## Permits and New Mines

DMN issued 30 permits for new mines and 380 renewals or modifications for a total of 410 permits. Sand and gravel mines were the most common type of newly permitted mines in 2020.

Mined Land Reclamation Permits are issued for terms of five years or less and may be renewed. A renewal permit allows continued operation of the mine within approved limits. A modification permit authorizes changes, such as the addition of processing equipment or expansion of the mine’s surface area or depth beyond the original approved limits.

	2016	2017	2018	2019	2020
New Permits	43	21	27	16	30
Renewals	260	228	246	254	248
Modifications	118	169	153	139	132
<b>Total Permits</b>	<b>421</b>	<b>418</b>	<b>426</b>	<b>409</b>	<b>410</b>

Table 1 – Mined Land Reclamation Permits, 2016–2020

## Mines in New York

### Owner Type

There are 1,801 active mines as shown on the following map. In 2020, industry operated 1,459 mines or 81% of the mines in New York State. Governmental entities operated the remaining 342 mines, or 19%, as follows: towns, villages, and other local government entities operated 307 mines, and 28 mines were county-owned and operated. New York State agencies operated seven mines. Most of the government-operated mines are permitted to highway departments that use the material for road maintenance.

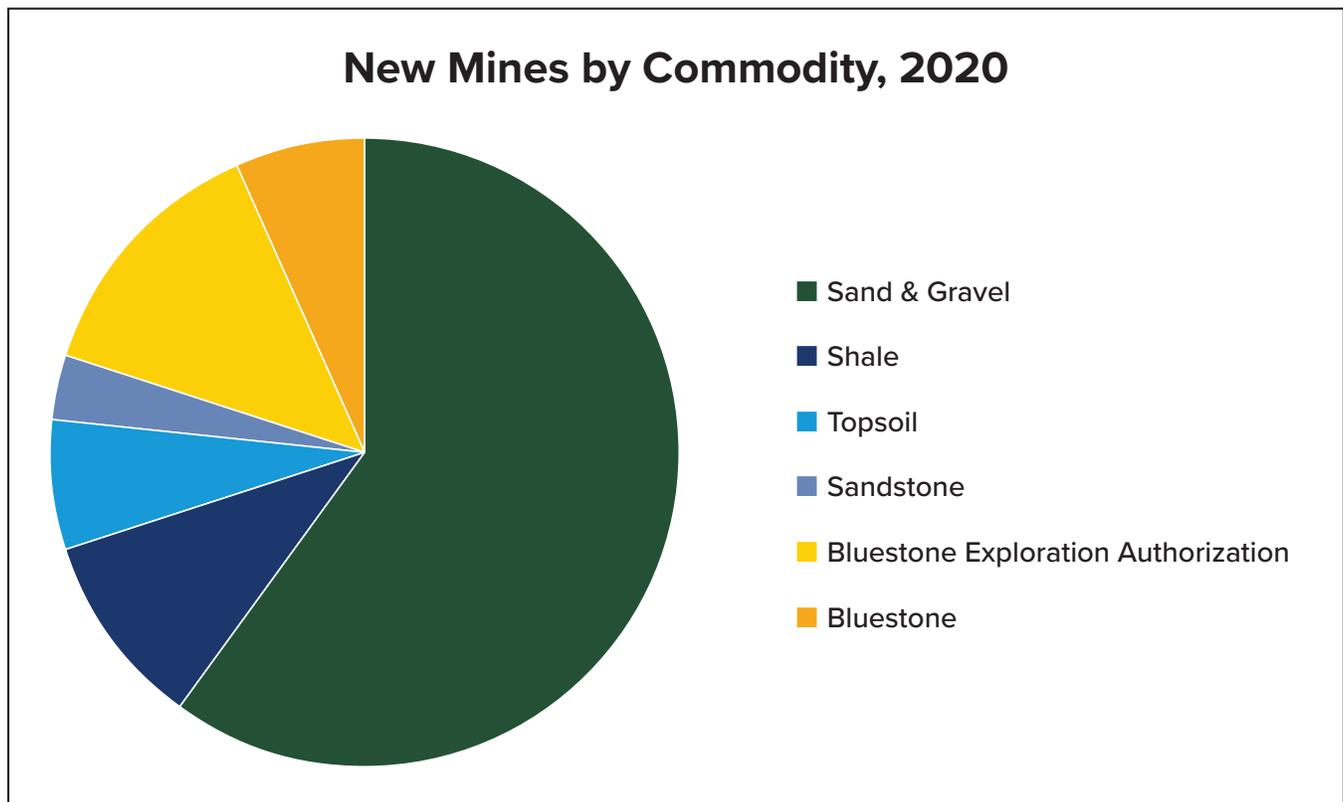


Figure 7 – Chart of New Mines by Commodity, 2020

## Trends in Mine Size and Number

Mine renewal and modification permits issued in 2020 ranged in life-of-mine acreage from one to 1,633 acres. However, new mines are often smaller; about 50% of new mines permitted in 2020 were 10 acres or less in size. The largest new mine was the 237.8-acre Seaway Timber Harvesting, Inc.–LaClair Topsoil Mine in St. Lawrence County.

The following tables provide 2016–2020 mine sizes for all active mines and detailed information on Mined Land Reclamation Permits by county. While the number of mines has been decreasing over time, the rate of decline has been greater for mines under 5 acres in size and those ranging between 10 to 20 acres in size. This is due to many operators expanding or combining existing mines rather than seeking permits for new sites and final reclamation of mines. This trend began to change in 2009, when the required regulatory fees were increased for sites with greater than 20 acres affected by mining. However, since 2013 there has been a slight increase in the total number of mines with 20 to 30 acres affected and those with more than 30 acres affected. The total number of mines ranging between 5 and 10 acres in size has remained relatively stable during the past 5 years.

The minor projects in the first row of Table 2 are always less than 5 acres in size. They are subject to a simpler review process, but must comply with very strict criteria to be considered minor: minimum setbacks from homes and surface waters; a maximum 20-foot mine depth from the mine floor to the top of the mine face; no mining below the water table; no hardrock (consolidated material) mining; and no on-site processing equipment, such as washing or crushing machines.

	2016	2017	2018	2019	2020
Minor Projects	47	39	38	32	30
0 to 5 Acres	516	488	467	448	427
> 5 to 10 Acres	436	437	451	438	428
> 10 to 20 Acres	409	409	400	401	399
> 20 to 30 Acres	165	163	161	166	172
> 30 Acres	335	336	337	336	345
<b>Total Mines</b>	<b>1,908</b>	<b>1,872</b>	<b>1,854</b>	<b>1,821</b>	<b>1,801</b>

Table 2 – Range of Mine Sizes, 2016–2020

County	Population Center Nearby	Active Mines	Net Affected Acreage	Land Percent
Rensselaer	Capital/Tri-City	45	1,880.09	0.44%
Onondaga	Syracuse	35	2,252.34	0.44%
Genesee	Rochester	17	1,379.8	0.43%
Albany	Capital/Tri-City	20	1,442.98	0.42%
Rockland	New York City	3	495	0.39%
Ontario	Rochester	32	1,515.74	0.36%
Dutchess	New York City	39	1,791.32	0.34%
Wayne	Syracuse	36	1,259.6	0.32%
Niagara	Buffalo	11	1,021.6	0.30%
Erie	Buffalo	39	2,018.45	0.30%
Saratoga	Capital/Tri-City	57	1,578.01	0.29%

Table 3 – Counties with Highest Percentage of Acreage Permitted by Mining, 2020

## Mines in New York State

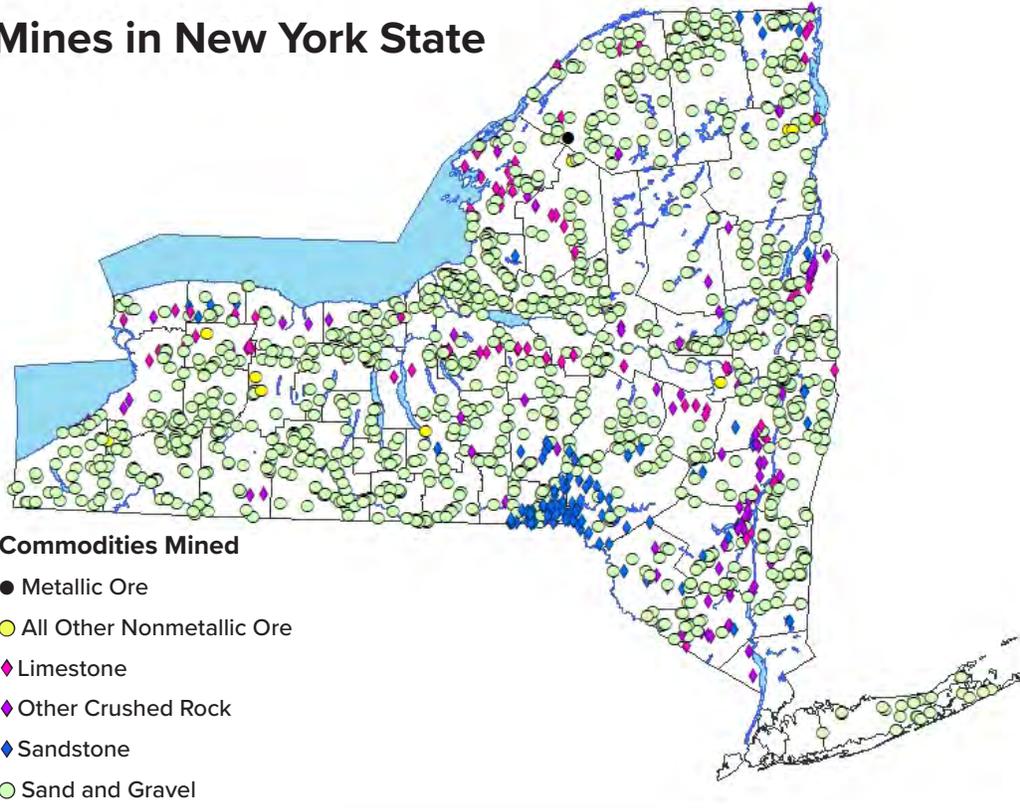


Figure 8 – Map of Mines in New York State

County	2020 New Permits		Total Permits		Concurrent Reclamation	Final Reclamation	Total Reclaimed
	Number	Acres <sup>1</sup>	Number	Acres <sup>1</sup>	Acres	Acres	Acres
Albany	0	0	20	1,442.98	8.4	0	8.4
Allegany	2	17.9	33	548.34	2.5	0	2.5
Broome	5	10.2	73	901.96	12.54	7	19.54
Cattaraugus	1	6	62	2,093.78	9.4	0	9.4
Cayuga	0	0	13	309.35	15.2	0	15.2
Chautauqua	1	6.8	41	696.70	3.3	28	31.3
Chemung	0	0	20	297.63	0.5	0	0.5
Chenango	1	47	40	796.19	25.29	8.25	33.54
Clinton	1	4.2	62	1,109.70	13	1	14
Columbia	0		23	921.93	7.85	0.85	8.7
Cortland	1	4.6	18	306.37	11.3	7	18.3
Delaware	1	4.5	58	749.51	2.2	5.8	8
Dutchess	0	0	39	1,791.32	0	10	10
Erie	0	0	39	2,018.45	29.6	10	39.6
Essex	0	0	40	891.19	0	0	0
Franklin	2	6.04	64	623.27	0	4.93	4.93
Fulton	0	0	27	434.10	0	0	0

Table 4 – Number of Permits, Acreage, and Reclaimed Acreage by County, 2020

<sup>1</sup> Net affected acreage

Table 4 continued– Number of Permits, Acreage, and Reclaimed Acreage by County, 2020

County	2020 New Permits		Total Permits		Concurrent Reclamation	Final Reclamation	Total Reclaimed
	Number	Acres <sup>1</sup>	Number	Acres <sup>1</sup>	Acres	Acres	Acres
Genesee	0	0	17	1,379.80	13.3	0	13.3
Greene	0	0	16	1,030.64	0	0	0
Hamilton	0	0	12	90.56	0	1.23	1.23
Herkimer	0	0	38	1,329.24	0	9	9
Jefferson	0	0	56	1,505.11	9.3	13.1	22.4
Lewis	0	0	29	593.66	0	19.9	19.9
Livingston	0	0	18	712.07 <sup>2</sup>	30.7	43.3	74
Madison	0	0	21	510.65	11.9	0	11.9
Monroe	0	0	11	658.15	0	0	0
Montgomery	0	0	7	618.50	0.6	0	0.6
Nassau	0	0	0	0	0	0	0
Niagara	0	0	11	1,021.60	0	0	0
Oneida	0	0	56	1,073.99	0	0	0
Onondaga	0	0	35	2,252.34	0	0	0
Ontario	0	0	32	1,515.74	32.2	5.6	37.8
Orange	0	0	33	603.65	41.8	0	41.8
Orleans	0	0	18	628.20	0	0	0
Oswego	3	22.69	97	1,568.92	40.6	23.7	64.3
Otsego	0	0	30	455.75	1	0	1
Putnam	0	0	2	61.30	0	0	0
Rensselaer	0	0	45	1,880.09	31.35	8.25	39.6
Rockland	0	0	3	495.00	0	0	0
Saratoga	0	0	57	1,578.01	0	20.1	20.1
Schenectady	0	0	8	216.87	0	0	0
Schoharie	1	7.74	17	596.53	0	0	0
Schuyler	0	0	11	250.46	0	0	0
Seneca	0	0	5	603.10 <sup>2</sup>	0	0	0
St. Lawrence	6	51.24	95	1,749.73	147.25	27.95	175.2
Steuben	1	9	67	1,752.27	25.8	8.1	33.9
Suffolk	1	4.67	23	1,209.72	7	3	10
Sullivan	0	0	21	1,111.51	0	17	17
Tioga	0	0	23	824.12	17.02	0	17.02
Tompkins	0	0	16	341.57 <sup>2</sup>	1.1	0	1.1
Ulster	2	16	45	749.65	0	0	0
Warren	0	0	31	720.14	0	2.27	2.27
Washington	1	5	52	973.23	0	3.5	3.5
Wayne	0	0	0	0	68.64	0	68.64
Westchester	0	0	36	1,259.60	0	1	1
Wyoming	1	6.4	23	211.70	0	0	0
Yates	0	0	12	152.31	0	0	0
Statewide	31	229.98	1801	50,218.25	620.64	289.83	910.47

<sup>2</sup> Does not include underground acreage for salt mines in Livingston (847.8 acres), Tompkins, and Seneca (9,330.03 acres) counties.

## Reclamation

Every permitted mine in New York State must be reclaimed at the end of its productive life, and DMN holds significant financial security to ensure that reclamation occurs. DEC also encourages concurrent reclamation to minimize potential negative environmental impacts and to more quickly return lands affected by mining to productive use. The permittee benefits from conducting concurrent reclamation in the form of reduced financial security and lower annual regulatory fees. DEC has seized the financial security for sites where operators have abandoned their reclamation responsibilities. The Mined Land Reclamation Program uses the seized funds to reclaim the sites in accordance with New York State Environmental Conservation Law and regulations. Examples of significant reclamation projects for 2020 include the following:

### Final Site Reclamation Completed by Permittee

#### Final Reclamation – Region 3: Woodbourne Lawn and Garden – Woodbourne Flats Mine

##### ***Town of Fallsburg, Sullivan County (30317)***

Final reclamation approval was given for the 45.3-acre sand and gravel mine in June 2020. The permittee graded the slopes, placed topsoil, and vegetated the site to meet the final reclamation objective of a 35-acre pond surrounded by vegetated meadow. The Woodbourne Flats mine is located 100 feet from the Neversink River and historically has been impacted by flood events. The mine operator partnered with the Theodore Gordon Flyfishers, a not-for-profit angling association, which donated and planted more than 600 black willows to help stabilize the reconstructed stream bank.



Photo 5 – Woodbourne Flats mine – Top, Bank of Neversink River reinforced with rip rap. Bottom, final reclamation of site.

#### Final Reclamation – Region 3: Stissing Valley Farms, Inc. – Stissing Valley Farm Mine

##### ***Town of Pine Plains, Dutchess County (30541)***

Final reclamation approval was given for the 7-acre sand and gravel mine in May 2020. The permittee graded the mine floor, applied topsoil, and planted crops to achieve a final reclamation objective of an agricultural field.



Photo 6 – Stissing Valley Farm Mine – Top, active mine in 2010. Bottom, final reclamation in 2020.

Final Reclamation – Region 4: Daniel G. Smith – Teasdale Mine

**Town of Nassau, Rensselaer County (40667)**

Final reclamation approval was given for the 9.8-acre sand and gravel mine in August 2020. The permittee graded the slopes, placed topsoil, and established vegetation to achieve the grassland meadow reclamation objective.



Photo 7 – Teasdale Mine – Top, site prior to grading of the mine faces. Bottom, final reclamation.

Final Reclamation – Region 4: Sam Wright – County Route 11 Pit

**Town of Claverack, Columbia County (40673)**

Final reclamation approval was given to the 8.73-acre sand and gravel mine in July 2020. The permittee graded the slopes, replaced topsoil, and revegetated the site to meet the reclamation objective of a small pond surrounded by a meadow.



Photo 8 – County Route 11 Pit – Final Reclamation.

Final Reclamation - Region 6: Curran Logging, Inc. – Lisbon Topsoil Mine

**Town of Lisbon, St. Lawrence County (60867)**

Final reclamation approval was given for the 63.9-acre topsoil and clay mine in September 2020. DEC previously approved 44.7 acres of concurrent reclamation at the site. The permittee graded the mine floor, applied topsoil, and established vegetation on the remaining 19.2 acres to achieve the final reclamation objective of a pond surrounded by meadowland.



Photo 9 – Lisbon Topsoil Mine – Final Reclamation.

Final Reclamation – Region 9: Town of Orchard Park – Yard Waste Reclamation Center

**Town of Orchard Park, Erie County (90067)**

Final reclamation approval was given for the 38-acre sand and gravel mine in October 2020. The permittee graded the slopes; installed a large concrete pad on a portion of the mine floor; applied topsoil on the remaining portion of the mine; and established vegetation, including a variety of trees, to achieve the reclamation objectives of a sports complex and a 19-acre composting facility.



Photo 10 – Town of Orchard Park – Top, soccer field as part of sports complex. Bottom, composting facility.

## Concurrent Site Reclamation Completed by Permittee

### Concurrent Reclamation – Region 7: Robert E. Coffin – Coffin Topsoil Mine

#### **Town of Richland, Oswego County (70813)**

In October 2020, DEC gave concurrent reclamation approval for 6 acres at the Coffin topsoil mine. The permittee graded the slopes, placed topsoil, and vegetated the site to achieve the reclamation objective of multiple ponds surrounded by meadow. A total of 22 acres of the 131.2-acre life-of-mine area have been approved as reclaimed.



Photo 11 – Coffin Topsoil Mine – Concurrent reclamation of the middle pond.

### Concurrent Reclamation – Region 7: Grant Perry – Rolling Hills Pond Sand and Gravel Mine

#### **Town of Sennett, Cayuga County (70712)**

In November 2020, DEC gave concurrent reclamation approval for 2.6 acres at the Rolling Hills Pond mine. The permittee graded the slopes, placed topsoil, and vegetated the site to achieve the reclamation objective of a pond surrounded by meadow. A total of 20 acres of the 24.45-acre life-of-mine area have been approved as reclaimed.



Photo 12 – Rolling Hills Pond Mine – Concurrent reclamation of side slopes around the pond, with active mining occurring in background.

### Concurrent Reclamation – Region 9: Dan Gernatt Gravel Products, Inc. – Vail Road Pit

#### **Town of Collins, Erie County (90089)**

In September 2020, DEC gave concurrent reclamation approval for 26.8 acres at the Vail Road mine. The permittee graded the mine floor and side slopes, applied topsoil, and vegetated the site to achieve the final reclamation objective of agricultural cropland. A total of 26.8 acres of the 68.05-acre life-of-mine area have been approved as reclaimed.



Photo 13 – Vail Road Pit – Concurrent reclamation

## Site Reclamation Using Seized Financial Security

Site Reclamation Using Seized Financial Security – Region 4: Michael Stafford, Williams Bluestone Mine

### **Town of Tompkins, Delaware County (40846)**

Mined Land staff coordinated with Division of Operations staff and the Job Order Contractor (JOC) to perform final reclamation of the abandoned 4.3-acre bluestone mine using seized reclamation financial security. The JOC pushed spoil rock into the excavation, graded the site, spread topsoil, and applied grass seed. DMN's DEC-Certified UAS (i.e., drone) Operator, Nathan Graber, conducted flights over the site and collected aerial photographs to document site conditions prior to reclamation of the site.



Photo 14 – Williams Bluestone Mine – Top, prior to reclamation, June 2019; Bottom, final grading and seeding of site, March 2020.



Photo 15 – Williams Bluestone Mine – Overview of site using UAS, August 2019.

## Site Reclamation Using Seized Financial Security – Region 5: William Rozell – Rozell Gravel and Topsoil Pit

### **Town of Dresden, Washington County (50986)**

DMN Mined Land staff coordinated with Region 5 Operations staff to perform the reclamation of an abandoned sand and gravel mine using seized financial security. Mine faces were graded and topsoil was replaced. The site was seeded, and vegetation was established to achieve the grassland reclamation objective. Mined Land staff approved the site as reclaimed in September 2020. A total of 4 acres were reclaimed as part of this project.



Photo 16 -- Rozell Pit – Top, prior to reclamation, October 2017. Bottom, initial vegetation, September 2019.

Site Reclamation Using Seized Financial Security  
– Region 7: Faith G. Phoenix – Bar F Gravel Mine

**Town of Cortlandville, Cortland County (70350)**

DMN Mined Land staff coordinated with Region 7 Operations staff to perform the reclamation of an abandoned sand and gravel mine using seized financial security. Mine faces were graded, topsoil was replaced, the site was seeded and mulched, and vegetation was established to achieve the grassland reclamation objective. Mined Land staff approved the site as reclaimed in May 2020. A total of 6.9 acres were reclaimed as part of this project.



Photo 17 — Bar F Gravel Mine – Top, severely eroded mine face prior to reclamation. Bottom, final reclamation.

Site Reclamation Using Seized Financial Security  
– Region 8: Morris A. Kennedy – Kennedy Pit

**Town of Groveland, Livingston County (80210)**

DMN Mined Land staff coordinated with Region 8 Operations staff to perform the reclamation of an abandoned sand and gravel mine using seized financial security. Mine faces were graded; topsoil was replaced; and the site was seeded, mulched, and vegetated, to achieve the grassland meadow reclamation objective. Mined Land staff approved the site as reclaimed in September 2020. A total of 11.4 acres were reclaimed as part of this project.



Photo 18 – Kennedy Mine - Top, reclaimed mine used for pasture in 2019. Bottom, final reclamation in 2020.

# Appendix A

Oil and Gas Summary Statistics, 2011–2020

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**New York State Oil, Gas and Mineral Resources, 2020**

**DIVISION OF MINERAL RESOURCES**

**OIL AND GAS STATISTICS<sup>1</sup>**

(2011 - 2020)

<b>Annual Production</b>	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Oil (1,000 bbl)	374	395	375	358	283	222	215	225	277	228
Gas (mmcf)	31,109	26,424	23,405	20,438	17,919	13,486	11,809	10,579	11,090	9,587
<b>Well Statistics</b>										
Oil	3,723	3,545	3,694	4,028	3,959	3,982	3,775	3,411	3,758	3,726
Gas	7,188	7,116	7,119	7,152	6,979	6,862	6,648	6,729	6,721	6,768
Inactive Oil	1,759	1,450	1,887	1,441	1,588	1,572	1,719	1,808	2,008	1,723
Inactive Gas	774	609	735	628	645	725	848	811	692	780
Storage	956	972	962	957	953	951	948	948	947	956
Active Brine	127	136	110	106	120	121	149	147	144	144
Inactive Brine	23	18	21	19	2	2	7	2	3	3
Water Injection	432	305	211	287	318	305	317	342	346	336
Miscellaneous Monitoring	5	5	6	11	10	6	6	6	6	5
P&A (During Year)	146	322	301	234	232	245	179	145	205	128
Number of Wells	15,133	14,478	15,046	14,863	14,806	14,771	14,596	14,349	14,830	14,569
<b>Drilling &amp; Completions</b>										
1. Total Wells Spudded	227	171	149	175	49	47	46	83	169	61
2. Total Wildcats	7	10	10	8	2	1	1	0	0	0
3. Discoveries	180	138	114	142	35	29	25	55	126	78
a. Oil Wildcat	0	1	1	0	0	1	0	0	0	0
b. Gas Wildcat	7	6	5	8	2	0	1	0	0	0
4. Total Dry Holes	4	5	4	0	0	0	0	0	0	0
5. Oil Well Completions										
Development	152	137	124	150	37	28	24	62	137	78
Extension	0	0	1	0	0	0	0	0	0	0
6. Gas Well Completions										
Development	20	5	4	0	0	0	0	0	0	0
Extension	1	1	0	4	0	0	0	0	0	0
7. Injection	0	0	0	0	0	1	3	0	1	0
8. Disposal	0	0	0	0	0	0	0	0	0	0
9. Stratigraphic	18	3	9	4	0	4	0	1	3	0
10. Service	0	0	0	0	0	0	0	0	0	0
11. Brine	12	8	12	17	9	8	4	13	7	3
12. Storage	0	3	1	1	0	1	0	2	0	0
13. Geothermal	4	2	0	1	0	10	2	0	0	0
14. Miscellaneous Monitoring	0	0	1	5	0	0	0	0	0	0
15. Suspended wells <sup>2</sup>	0	9	15	16	18	19	3	14	9	
<b>16. Total Completions</b>	<b>218</b>	<b>180</b>	<b>177</b>	<b>206</b>	<b>66</b>	<b>72</b>	<b>37</b>	<b>92</b>	<b>157</b>	<b>81</b>
(3a,3b,4,5,6,7,8,9,10,11,12,13,14,15)										
Footage - Vertical Wells <sup>3,4</sup>	448	334	246	316	72	70	61	132	220	136
- Deviated Wells <sup>3,4</sup>	53	78	46	77	27	5	6	7	6	2
<b>17. Total Footage Drilled<sup>3,4</sup></b>	<b>502</b>	<b>412</b>	<b>292</b>	<b>394</b>	<b>99</b>	<b>75</b>	<b>67</b>	<b>139</b>	<b>226</b>	<b>138</b>

<sup>1</sup> Statistics for lines 2 - 15 are based upon received completion reports from the operators.

<sup>2</sup> Suspended wells: wells drilled to TD but completion category not yet determined.

<sup>3</sup> In thousands.

<sup>4</sup> Footage totals prior to 2016 have been corrected using an updated calculation method, and will not match those of previous Annual Reports.

# Appendix B

Oil and Gas Production by Town, 2020

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## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Allegany</b>									
Allen	0	0	0	0	1	0	0	0	0
Alma	6,588	2,731	198	25	0	122	113	0	41
Almond	1,047	0	0	1	0	0	0	0	0
Amity	120	58	25	1	3	7	6	0	0
Andover	15,405	4,877	905	1	0	239	35	0	0
Angelica	101	0	0	1	0	0	0	0	0
Bolivar	1,067	2,736	445	0	8	191	334	3	51
Centerville	0	0	0	0	1	0	0	0	0
Clarksville	80	122	24	0	0	19	35	0	1
Friendship	0	0	0	0	0	0	2	0	0
Genesee	153	960	310	1	5	96	257	1	103
Granger	101	0	0	1	0	0	0	0	0
Hume	0	0	0	0	1	0	0	0	0
Independence	49,016	4,589	1,086	5	1	297	50	2	2
New Hudson	0	0	0	0	1	0	0	0	0
Rushford	151	0	0	2	0	0	0	0	0
Scio	0	52	19	0	7	12	175	0	50
Ward	210	0	0	3	0	0	0	0	0
Wellsville	2,774	2,171	1,216	0	0	36	40	0	8
Willing	260	239	12	0	2	3	30	0	0
Wirt	726	594	663	0	0	44	54	0	15
<b>County Total</b>	<b>77,799</b>	<b>19,129</b>	<b>4,903</b>	<b>41</b>	<b>30</b>	<b>1,066</b>	<b>1,131</b>	<b>6</b>	<b>271</b>
<b>Cattaraugus</b>									
Allegany	188,761	125,549	50,264	5	1	829	211	10	15
Ashford	5,545	329	0	20	0	1	0	0	0
Carrollton	83,224	51,066	34,252	1	2	656	55	6	9
Cold Spring	0	0	0	0	4	0	0	0	0
Conewango	113,433	0	225	80	0	0	0	0	0
Dayton	37,896	0	69	57	11	0	3	0	0
East Otto	12,134	0	0	10	5	0	1	0	0
Ellicottville	5,032	0	0	12	0	0	0	0	0
Farmersville	2	0	0	2	0	0	0	0	0
Freedom	3,866	840	100	8	3	1	0	0	0
Great Valley	177	0	0	1	0	0	0	0	0
Hinsdale	3	112	12	0	0	4	0	0	0

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Cattaraugus</b>									
Leon	102,127	4	37	94	10	0	0	0	0
Little Valley	2	0	0	2	0	0	0	0	0
Machias	226	0	0	2	0	0	0	0	0
Mansfield	1	0	0	1	0	0	0	0	0
Napoli	568	0	0	2	0	0	0	0	0
New Albion	3,270	0	0	7	10	0	0	0	0
Olean	23,251	16,791	2,430	5	0	316	198	0	0
Olean City	37	0	0	0	0	1	0	0	0
Otto	47,271	40	40	55	15	1	0	0	0
Perrysburg	36,356	0	0	51	6	0	0	0	0
Persia	97,819	0	108	96	5	0	3	0	0
Portville	7	23	2	1	1	6	0	0	0
Randolph	74,813	564	0	84	0	2	0	0	0
South Valley	467	0	0	2	0	0	0	0	0
Yorkshire	11,227	0	200	23	1	0	0	0	0
<b>County Total</b>	<b>847,515</b>	<b>195,318</b>	<b>87,739</b>	<b>621</b>	<b>74</b>	<b>1,817</b>	<b>471</b>	<b>16</b>	<b>24</b>
<b>Cayuga</b>									
Auburn City	803	0	0	1	0	0	0	0	0
Aurelius	244,949	0	587	141	1	0	0	0	0
Conquest	0	0	0	0	0	0	0	0	0
Fleming	37,898	0	283	30	5	0	0	0	0
Ledyard	187	0	0	1	3	0	0	0	0
Owasco	600	0	0	2	1	0	0	0	0
Scipio	1	0	0	1	2	0	0	0	0
Sennett	190	0	0	1	0	0	0	0	0
Springport	211,693	0	1,071	110	8	0	0	0	0
Throop	3,815	0	0	8	1	0	0	0	0
Venice	0	0	0	0	0	0	0	0	0
<b>County Total</b>	<b>500,136</b>	<b>0</b>	<b>1,941</b>	<b>295</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Chautauqua</b>									
Arkwright	41,971	0	454	113	10	0	0	0	0
Busti	119,586	11,325	1,253	138	6	562	52	0	0
Carroll	44,319	0	11	43	32	1	4	0	0
Charlotte	38,031	54	299	114	24	1	1	0	0
Chautauqua	268,396	0	1,162	327	4	0	0	0	0

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Chautauqua</b>									
Cherry Creek	59,269	0	18	110	15	0	0	0	0
Clymer	71,014	1,097	2,542	119	5	2	2	0	0
Dunkirk	54,286	0	210	36	6	0	0	0	0
Dunkirk City	2,706	0	0	4	3	0	0	0	0
Ellery	45,531	252	595	65	72	9	9	0	0
Ellicott	94,475	0	82	75	4	1	0	0	0
Ellington	126,744	0	290	179	0	0	0	0	0
French Creek	15,385	0	111	61	4	0	0	0	0
Gerry	129,949	1,916	662	154	12	17	3	0	0
Hanover	57,341	0	229	139	24	0	0	0	0
Harmony	93,382	0	1,190	115	7	0	0	0	0
Jamestown	2,337	0	5	2	2	0	0	0	0
Kiantone	175,304	0	38	87	1	0	0	0	0
Mina	47,155	0	328	76	1	0	0	0	0
North Harmony	126,934	1,389	1,147	148	17	14	3	0	0
Poland	194,827	179	124	155	8	2	0	0	0
Pomfret	111,912	0	520	172	11	0	0	0	0
Portland	149,299	0	169	150	2	0	0	0	0
Ripley	133,165	0	1,100	181	2	0	0	0	0
Sheridan	85,499	0	259	87	19	0	0	0	0
Sherman	79,182	0	333	85	5	1	0	0	0
Stockton	80,363	0	389	120	6	0	0	0	0
Villanova	32,724	0	26	77	23	0	0	0	0
Westfield	226,596	0	1,191	271	8	0	0	0	0
<b>County Total</b>	<b>2,707,682</b>	<b>16,212</b>	<b>14,737</b>	<b>3,403</b>	<b>333</b>	<b>610</b>	<b>74</b>	<b>0</b>	<b>0</b>
<b>Chemung</b>									
Baldwin	0	0	0	0	1	0	0	0	0
Big Flats	195,669	0	331	3	1	0	0	0	0
Catlin	128,533	0	320	4	6	0	0	0	0
Elmira City	914	0	0	1	0	0	0	0	0
Erin	0	0	0	0	6	0	0	0	0
Horseheads	0	0	0	0	3	0	0	0	0
Southport	224,119	0	10,551	5	0	0	0	0	0
Van Etten	123,299	0	647	5	12	0	0	0	0
Veteran	0	0	0	0	8	0	0	0	0

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Chemung</b>									
<b>County Total</b>	<b>672,534</b>	<b>0</b>	<b>11,849</b>	<b>18</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Chenango</b>									
Oxford	0	0	0	0	1	0	0	0	0
Plymouth	119,897	0	383	5	1	0	0	0	0
Preston	72,740	0	88	4	0	0	0	0	0
Smyrna	402,508	0	277	35	1	0	0	0	0
<b>County Total</b>	<b>595,145</b>	<b>0</b>	<b>748</b>	<b>44</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Cortland</b>									
Scott	0	0	0	0	1	0	0	0	0
<b>County Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Erie</b>									
Alden	32,223	0	135	59	7	0	0	0	0
Aurora	8,299	0	1	19	3	0	0	0	0
Boston	26,896	0	42	40	8	0	0	0	0
Brant	77,580	0	615	104	10	0	0	0	0
Buffalo	140	0	0	1	0	0	0	0	0
Cheektowaga	15,678	0	0	12	0	0	0	0	0
Clarence	2,519	0	0	5	2	0	0	0	0
Colden	3,816	0	0	7	5	0	0	0	0
Collins	80,173	0	0	76	12	0	0	0	0
Concord	71,073	0	53	78	5	0	0	0	0
Eden	77,891	0	396	162	4	0	0	0	0
Elma	30,690	0	173	55	2	0	0	0	0
Evans	66,208	0	198	83	9	0	0	0	0
Hamburg	24,525	0	68	31	12	0	0	0	0
Holland	1,412	0	0	2	1	0	0	0	0
Lackawanna	318	0	0	1	0	0	0	0	0
Lancaster	23,386	0	55	22	3	0	0	0	0
Marilla	19,188	0	45	32	1	0	0	0	0
Newstead	68,763	0	14	71	4	1	0	0	0
North Collins	92,046	0	5	137	22	0	0	0	0
Orchard Park	29,239	0	7	22	11	0	0	0	0
Sardinia	51,274	0	5	18	3	0	0	0	0
Tonawanda	0	0	0	0	5	0	0	0	0
Tonawanda City	0	0	0	0	1	0	0	0	0

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Erie</b>									
Wales	6,632	0	0	48	5	0	0	0	0
West Seneca	12,486	0	0	2	0	0	0	0	0
<b>County Total</b>	<b>822,455</b>	<b>0</b>	<b>1,812</b>	<b>1,087</b>	<b>135</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Genesee</b>									
Alabama	15,915	0	0	20	0	0	0	0	0
Alexander	29,333	0	0	42	0	0	0	0	0
Batavia	26,318	0	230	33	1	0	0	0	0
Bergen	1	0	0	1	0	0	0	0	0
Bethany	2,953	0	24	15	13	0	0	0	0
Darien	210,979	0	584	224	10	0	0	0	0
Elba	1,136	0	0	3	0	0	0	0	0
Le Roy	16,694	0	86	10	2	0	0	0	0
Oakfield	10,888	0	0	13	0	0	0	0	0
Pavilion	9,546	0	64	17	2	0	0	0	0
Pembroke	124,786	0	214	122	0	0	0	0	0
Stafford	1	0	0	1	1	0	0	0	0
<b>County Total</b>	<b>448,550</b>	<b>0</b>	<b>1,202</b>	<b>501</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Herkimer</b>									
Stark	0	0	0	0	0	0	0	0	0
<b>County Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Livingston</b>									
Avon	7,018	0	0	14	4	0	0	0	0
Caledonia	22,053	0	30	47	2	0	0	0	0
Groveland	0	0	0	0	1	0	0	0	0
Leicester	15,848	0	0	21	1	0	0	0	0
Nunda	217	0	0	1	0	0	0	0	0
Ossian	0	0	0	0	1	0	0	0	0
Portage	2,665	0	0	1	1	0	0	0	0
Sparta	150	0	0	1	0	0	0	0	0
West Sparta	2,366	0	0	6	1	0	0	0	0
York	18,121	0	19	44	9	0	0	0	0
<b>County Total</b>	<b>68,438</b>	<b>0</b>	<b>49</b>	<b>135</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Madison</b>									
Brookfield	480	0	0	1	0	0	0	0	0
Eaton	1,341	0	0	4	0	0	0	0	0

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Madison</b>									
Lebanon	287,960	0	0	46	6	0	0	0	0
<b>County Total</b>	<b>289,781</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Niagara</b>									
Lewiston	1	0	0	1	0	0	0	0	0
<b>County Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Oneida</b>									
Sangerfield	2,430	0	0	2	0	0	0	0	0
<b>County Total</b>	<b>2,430</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Onondaga</b>									
Marcellus	240	0	0	1	6	0	0	0	0
Spafford	0	0	0	0	1	0	0	0	0
Tully	0	0	0	0	0	0	0	0	0
<b>County Total</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ontario</b>									
Bristol	247	0	0	2	0	0	0	0	0
Canandaigua	23	0	0	2	0	0	0	0	0
East Bloomfield	29,740	0	0	17	0	0	0	0	0
Geneva	212	0	0	1	2	0	0	0	0
Phelps	0	0	0	0	1	0	0	0	0
Richmond	275	0	0	1	0	0	0	0	0
Seneca	0	0	0	0	1	0	0	0	0
West Bloomfield	10	0	0	1	0	0	0	0	0
<b>County Total</b>	<b>30,507</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Oswego</b>									
Richland	2	0	0	2	0	0	0	0	0
Schroepfel	0	0	0	0	1	0	0	0	0
West Monroe	1	0	0	1	0	0	0	0	0
Williamstown	0	0	0	0	1	0	0	0	0
<b>County Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Schuyler</b>									
Dix	0	0	0	0	1	0	0	0	0
Hector	0	0	0	0	2	0	0	0	0
Orange	0	0	0	0	8	0	0	0	0
Tyrone	0	0	0	0	1	0	0	0	0
<b>County Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Seneca</b>									

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Seneca</b>									
Fayette	380,800	0	3,725	145	1	0	0	0	0
Junius	2,733	0	0	5	0	0	0	0	0
Seneca Falls	12,371	0	1,018	8	0	0	0	0	0
Tyre	1,501	0	0	3	0	0	0	0	0
Varick	123,823	0	852	51	0	0	0	0	0
<b>County Total</b>	<b>521,228</b>	<b>0</b>	<b>5,595</b>	<b>212</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Steuben</b>									
Avoca	630	0	0	2	0	0	0	0	0
Bath	0	0	0	0	1	0	0	0	0
Bradford	0	0	0	0	4	0	0	0	0
Campbell	0	0	0	0	4	0	0	0	0
Caton	331,395	0	1,516	4	3	0	0	0	0
Cohocton	0	0	0	0	4	0	0	0	0
Corning	1,231,555	0	9,987	9	3	0	0	0	0
Greenwood	124	56	4	2	0	4	0	0	0
Hartsville	2	10	1	1	0	1	0	0	0
Hornby	192,774	0	375	4	3	0	0	0	0
Howard	0	0	0	0	2	0	0	0	0
Prattsburg	0	0	0	0	4	0	0	0	0
Pulteney	7,044	0	0	2	7	0	0	0	0
Thurston	0	0	0	0	1	0	0	0	0
Troupsburg	7,733	0	0	2	1	0	0	0	0
Urbana	0	0	0	0	1	0	0	0	0
West Union	44,217	6,439	7,126	1	0	226	7	11	1
Woodhull	851	0	0	1	0	0	0	0	0
<b>County Total</b>	<b>1,816,325</b>	<b>6,505</b>	<b>19,009</b>	<b>28</b>	<b>38</b>	<b>231</b>	<b>7</b>	<b>11</b>	<b>1</b>
<b>Tioga</b>									
Barton	0	0	0	0	1	0	0	0	0
Owego	0	0	0	0	0	0	0	0	0
Spencer	0	0	0	0	1	0	0	0	0
<b>County Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Wayne</b>									
Butler	191	0	0	2	0	0	0	0	0
Galen	2,324	0	0	2	0	0	0	0	0
<b>County Total</b>	<b>2,515</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Oil and Gas Production by Town in Each County

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
<b>Wyoming</b>									
Arcade	13,486	314	0	37	2	1	0	0	0
Attica	750	0	0	1	2	0	0	0	0
Bennington	53,593	0	400	86	3	0	0	0	0
Castile	2,341	0	0	4	0	0	0	0	0
Covington	38,374	0	0	37	1	0	0	0	0
Eagle	0	0	0	0	0	0	0	0	0
Gainesville	95	0	0	1	0	0	0	0	0
Genesee Falls	1	0	0	1	0	0	0	0	0
Java	7,868	0	0	20	3	0	0	0	0
Middlebury	486	0	0	3	7	0	0	0	0
Perry	26,711	0	0	46	1	0	0	0	0
Pike	75	0	0	1	0	0	0	0	0
Sheldon	28,523	0	340	39	2	0	0	0	0
Warsaw	1,672	0	0	5	0	0	0	0	0
<b>County Total</b>	<b>173,975</b>	<b>314</b>	<b>740</b>	<b>281</b>	<b>21</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Yates</b>									
Barrington	4,699	0	10	2	0	0	0	0	0
Benton	1,468	0	0	8	1	0	0	0	0
Jerusalem	0	0	0	0	1	0	0	0	0
Middlesex	1	0	0	1	0	0	0	0	0
Milo	2,959	0	0	2	0	0	0	0	0
Potter	72	0	0	1	1	0	0	0	0
Starkey	410	0	0	1	0	0	0	0	0
Torrey	624	0	0	1	1	0	0	0	0
<b>County Total</b>	<b>10,233</b>	<b>0</b>	<b>10</b>	<b>16</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>State Total</b>	<b>9,587,492</b>	<b>237,478</b>	<b>150,334</b>	<b>6,768</b>	<b>780</b>	<b>3,726</b>	<b>1,683</b>	<b>33</b>	<b>296</b>

# Appendix C

Drilling Permits Issued During 2020

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## Drilling Permits Issued During 2020

Town	Company	API Number	Well Name	Issue Date	Spud Date
<b>Cattaraugus</b>					
Allegany	Dimes Energy GP Inc.	31009286560000	DE-1	08/12/2020	08/17/2020
Allegany	Dimes Energy GP Inc.	31009286570000	DE-2	08/12/2020	08/18/2020
Allegany	Dimes Energy GP Inc.	31009286580000	DE-3	08/12/2020	09/11/2020
Allegany	Dimes Energy GP Inc.	31009286590000	DE-4	08/12/2020	09/24/2020
Allegany	Dimes Energy GP Inc.	31009286600000	DE-5	08/12/2020	08/24/2020
Allegany	Dimes Energy GP Inc.	31009286610000	DE-6	08/12/2020	08/28/2020
Allegany	Dimes Energy GP Inc.	31009286620000	DE-7	08/12/2020	09/09/2020
Allegany	Dimes Energy GP Inc.	31009286630000	DE-8	08/12/2020	09/22/2020
Allegany	Dimes Energy GP Inc.	31009286640000	DE-9	08/12/2020	09/30/2020
Allegany	Dimes Energy GP Inc.	31009286650000	DE-10	08/12/2020	09/28/2020
Allegany	Dimes Energy GP Inc.	31009286660000	DE-11	08/12/2020	
Allegany	Dimes Energy GP Inc.	31009286670000	DE-12	08/12/2020	12/18/2020
Allegany	Dimes Energy GP Inc.	31009286680000	DE-13	08/12/2020	09/04/2020
Allegany	Dimes Energy GP Inc.	31009286690000	DE-14	08/12/2020	09/18/2020
Allegany	Dimes Energy GP Inc.	31009286700000	DE-15	08/12/2020	10/06/2020
Allegany	Dimes Energy GP Inc.	31009286710000	DE-16	08/12/2020	10/14/2020
Allegany	Dimes Energy GP Inc.	31009286720000	DE-17	08/12/2020	10/12/2020
Allegany	Dimes Energy GP Inc.	31009286730000	DE-18	08/12/2020	09/16/2020
Allegany	Dimes Energy GP Inc.	31009286740000	DE-19	08/12/2020	10/02/2020
Allegany	Dimes Energy GP Inc.	31009286750000	DE-20	08/12/2020	10/08/2020
Allegany	Dimes Energy GP Inc.	31009300700000	DE 24	10/09/2020	10/16/2020
Allegany	Dimes Energy GP Inc.	31009300710000	DE 23	10/22/2020	10/26/2020
Allegany	Dimes Energy GP Inc.	31009300720000	DE 25	10/22/2020	02/12/2021
Allegany	Dimes Energy GP Inc.	31009300730000	DE 26	10/22/2020	12/22/2020
Allegany	Dimes Energy GP Inc.	31009300740000	DE 28	10/22/2020	01/22/2021
Allegany	Dimes Energy GP Inc.	31009300750000	DE 29	10/22/2020	02/01/2021
Allegany	Dimes Energy GP Inc.	31009300760000	DE 30	10/22/2020	02/09/2021
Allegany	Dimes Energy GP Inc.	31009300770000	DE 31	11/09/2020	02/03/2021
Allegany	Dimes Energy GP Inc.	31009300780000	DE 32	10/22/2020	10/29/2020
Allegany	Dimes Energy GP Inc.	31009300790000	DE 34	11/09/2020	02/05/2021
Allegany	Dimes Energy GP Inc.	31009300800000	DE 36	10/22/2020	11/05/2020
Allegany	Dimes Energy GP Inc.	31009300810000	DE 37	11/09/2020	12/10/2020
Allegany	Dimes Energy GP Inc.	31009300820000	DE 38	10/22/2020	10/28/2020
Allegany	Dimes Energy GP Inc.	31009300830000	DE 39	10/22/2020	11/11/2020
Allegany	Dimes Energy GP Inc.	31009300840000	DE 40	11/09/2020	12/03/2020
Allegany	Dimes Energy GP Inc.	31009300850000	DE 33	11/09/2020	11/24/2020
Allegany	Dimes Energy GP Inc.	31009300860000	DE 41	11/09/2020	12/08/2020
Allegany	Dimes Energy GP Inc.	31009300870000	DE 42	11/09/2020	11/16/2020
Allegany	Dimes Energy GP Inc.	31009300880000	DE 43	11/09/2020	11/20/2020
Allegany	Dimes Energy GP Inc.	31009300890000	DE 44	11/09/2020	11/25/2020
Allegany	Dimes Energy GP Inc.	31009300900000	DE 45	11/09/2020	

## Drilling Permits Issued During 2020

Town	Company	API Number	Well Name	Issue Date	Spud Date
<b>Cattaraugus</b>					
Allegany	Dimes Energy GP Inc.	31009300910000	DE 46	11/09/2020	11/18/2020
Allegany	Dimes Energy GP Inc.	31009300920000	DG 22	12/15/2020	03/04/2021
Allegany	Dimes Energy GP Inc.	31009300930000	DG 23	12/15/2020	03/01/2021
Allegany	Dimes Energy GP Inc.	31009300940000	DG 24	12/15/2020	03/08/2021
Allegany	Dimes Energy GP Inc.	31009300950000	DG 25	12/15/2020	03/12/2021
Allegany	Dimes Energy GP Inc.	31009300960000	DG 26	12/15/2020	04/07/2021
Allegany	Dimes Energy GP Inc.	31009300970000	DG 27	12/15/2020	02/18/2021
Allegany	Dimes Energy GP Inc.	31009300980000	DG 28	12/15/2020	03/10/2021
Allegany	Dimes Energy GP Inc.	31009300990000	DG 29	12/15/2020	03/15/2021
Allegany	Dimes Energy GP Inc.	31009301000000	DG 30	12/15/2020	03/10/2021
Allegany	Dimes Energy GP Inc.	31009301010000	DG 31	12/15/2020	03/22/2021
Allegany	Dimes Energy GP Inc.	31009301020000	DG 32	12/15/2020	01/19/2021
Allegany	Dimes Energy GP Inc.	31009301030000	DG 33	12/15/2020	03/17/2021
Allegany	Dimes Energy GP Inc.	31009301040000	DG 34	12/15/2020	03/06/2021
Allegany	Dimes Energy GP Inc.	31009301050000	DG 35	12/15/2020	01/16/2021
Allegany	Dimes Energy GP Inc.	31009301060000	DG 36	12/15/2020	04/09/2021
Carrollton	Dallas Energy, LLC	31009300650000	Potter Lumber 2 # 20	07/02/2020	07/07/2020
Carrollton	Dallas Energy, LLC	31009300660000	Potter Lumber 2 # 11	07/20/2020	07/24/2020
Carrollton	Dallas Energy, LLC	31009300670000	Potter Lumber 2 # 19	07/20/2020	07/20/2020
Carrollton	Dallas Energy, LLC	31009300680000	Potter Lumber 2 # 24	07/20/2020	07/31/2020
Carrollton	Dallas Energy, LLC	31009300690000	Potter Lumber 2 # 35	07/20/2020	08/05/2020
Olean	Copper Ridge Oil, Inc.	31009286760000	Schultz S5	02/26/2020	
Olean	Copper Ridge Oil, Inc.	31009286770000	Schultz S6	02/26/2020	
Olean	Vertical Energy, Inc.	31009286780000	Washington 10	03/02/2020	08/19/2020
Olean	Vertical Energy, Inc.	31009286790000	Washington 11	03/02/2020	07/06/2020
Olean	Vertical Energy, Inc.	31009286800000	Washington 12	03/02/2020	07/13/2020
Olean	Vertical Energy, Inc.	31009286810000	Washington 13	03/02/2020	
Olean	Vertical Energy, Inc.	31009286820000	Washington 14	03/02/2020	06/22/2020
Olean	Vertical Energy, Inc.	31009286830000	Washington 15	03/02/2020	06/15/2020
Olean	Vertical Energy, Inc.	31009286840000	Washington 16	03/02/2020	06/04/2020
Olean	Vertical Energy, Inc.	31009286850000	Washington 17	03/02/2020	05/29/2020
Olean	Vertical Energy, Inc.	31009286860000	Washington 18	03/02/2020	05/19/2020
Olean	Vertical Energy, Inc.	31009286870000	Washington 19	03/02/2020	05/11/2020
Olean	Vertical Energy, Inc.	31009286880000	Edstrom 5B	03/12/2020	04/06/2020
Olean	Vertical Energy, Inc.	31009286890000	Edstrom 6B	03/12/2020	03/30/2020
Olean	Vertical Energy, Inc.	31009286940000	Washington 9	07/16/2020	07/20/2020
Olean	Copper Ridge Oil, Inc.	31009286950000	Schultz S10	08/18/2020	08/20/2020
Olean	Copper Ridge Oil, Inc.	31009286960000	Schultz S11	08/18/2020	08/26/2020
<b>Chautauqua</b>					
Busti	Johnson, Mark & Troy	31013286900000	Anderson 2	04/22/2020	05/13/2020
Busti	Johnson, Mark & Troy	31013286910000	Anderson 3	04/22/2020	05/15/2020

## Drilling Permits Issued During 2020

Town	Company	API Number	Well Name	Issue Date	Spud Date
<b>Chautauqua</b>					
Busti	Johnson, Mark & Troy	31013286920000	Anderson 4	04/22/2020	05/19/2020
Busti	Johnson, Mark & Troy	31013286930000	Evinczik 24	04/22/2020	05/22/2020
<b>Chenango</b>					
Oxford	Prasinos Storage I, LLC	31017260500001	Romahn 1	03/06/2020	
<b>Wyoming</b>					
Middlebury	Texas Brine New York, LLC	31121300320000	B/W 153	04/22/2020	07/30/2020
Middlebury	Texas Brine New York, LLC	31121300330000	B/W 154	04/22/2020	07/15/2020
Middlebury	Texas Brine New York, LLC	31121300340000	B/W 155	04/22/2020	07/01/2020

# **Appendix D**

**Drilled Wildcats and Field Extensions, 2020**

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## Drilled Wildcats and Field Extensions

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
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There were no gas or oil wildcat/extension wells completed in 2020.

# **Appendix E**

**Mined Land Permits Issued During 2020**

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## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Albany</b>							
Berne	Heldeberg Bluestone & Marbl	MINE	40806	Grippy Quarry	4/27/2020	Modification	32.9
Berne	William M Larned & Sons Inc	MINE	40806	Grippy Quarry	9/11/2020	Modification	32.9
Bethlehem	Peter K Frueh Inc	MINE	40815	Frueh Mine Site	8/29/2020	Modification	10.0
Cohoes	Norlite Corp	MINE	40002	Norlite-Cohoes Shale/Clay Pit	2/12/2020	Modification	137.0
Colonie	Constantine Construction & F	MINE	40420	Constantine Construction	1/29/2020	Renewal	6.0
Guilderland	Helderberg Excavating & Tru	MINE	40920	Helderberg Mine	8/4/2020	Modification	6.4
<b>Allegany</b>							
Almond	Almond Aggregates LLC	MINE	90517	Skuba Construction Materials Mine	2/5/2020	Renewal	68.4
Caneadea	Behen, Douglas	MINE	91068	Behen Farms Gravel Mine	6/10/2020	New	15.0
Cuba	New Hudson, Town of	MINE	91067	Freeman Mine	4/14/2020	New	2.9
Cuba	Ungermann Excavating Inc	MINE	90512	Ungermann Spring Valley Mine #1	7/22/2020	Renewal	17.8
<b>Broome</b>							
Barker	F S Lopke Contracting Inc	MINE	70394	Whitney Point Mine	3/22/2020	Renewal	101.5
Colesville	A & G Realty Associates LLC	MINE	70678	Dyer Flat Mine	2/11/2020	Modification	66.1
Colesville	Gac Realty	MINE	70163	Winsor Mine- NYS Route 79	11/18/2020	Renewal	62.1
Kirkwood	Alfred Gorick Co Inc	MINE	70694	Route 11	6/3/2020	Renewal	17.3
Sanford	Bishop, David	AUTH	71071	Andresen Quarry #2	8/5/2020	New	1.0
Sanford	Jenkins, Richard	AUTH	71070	Andresen Quarry	7/28/2020	New	1.0
Windsor	Balducci, J Nicholas	MINE	70897	Honey Hollow Quarry	1/9/2020	Modification	19.0
Windsor	Bishop, David	MINE	71013	Brink Quarry	3/10/2020	Renewal	4.2
Windsor	Bishop, David	AUTH	71074	Akulis Quarry	9/1/2020	New	1.0
Windsor	Bishop, James	AUTH	71066	Brink Quarry #2	5/29/2020	New	1.0
Windsor	Blue Stone Quarry Inc.	MINE	70980	Williams Road Quarry	1/30/2020	Renewal	5.0
Windsor	Damascus 535 Quarry & Ston	MINE	70016	Broome County Quarry	12/21/2020	Modification	23.8
Windsor	Devonian Stone Of New York	MINE	71011	Tusca Ridge Main	2/25/2020	Renewal	6.6
Windsor	Empet, Tim	MINE	70913	Higgins Quarry	4/30/2020	Renewal	3.0
Windsor	Grekin, Stephen	MINE	71061	Ridge Line Quarry	7/27/2020	Modification	5.0
Windsor	Gunn, Jeffrey	AUTH	71062	Randell Quarry	8/25/2020	Modification	1.0
Windsor	Sanchez, Pedro	MINE	70991	Ben Stone Quarry	5/29/2020	New	8.2
Windsor	Timberland Resources LLC	MINE	71017	Vivito Quarry	8/31/2020	Modification	5.0
<b>Cattaraugus</b>							
Allegany	I A Construction Corp	MINE	90019	Lippert Gravel Pit	8/18/2020	Renewal	247.1
Ashford	Ashford, Town of	MINE	90320	Ashford Town Mine #1	9/30/2020	Renewal	23.4

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Cattaraugus</b>							
Freedom	Gernatt Asphalt Products Inc	MINE	90367	Maple Grove Rd Deposit	6/17/2020	Modification	21.5
Leon	Country Side Sand & Gravel I	MINE	90566	Garvey Gravel Pit	3/9/2020	Modification	11.4
Leon	Country Side Sand & Gravel I	MINE	90669	Youngs Road North Mine	2/12/2020	Renewal	39.4
Little Valley	Giglio, Ann Marie	MINE	90448	Pease Mine	10/19/2020	Renewal	24.1
Mansfield	Little Valley Sand and Gravel	MINE	90220	Little Valley Sand & Gravel Shale Mi	9/28/2020	Modification	1.8
Portville	Armstrong, Edgar W Jr	MINE	91066	Edgar and Theresa Armstrong Grav	7/20/2020	New	6.0
<b>Cayuga</b>							
Sennett	Perry, Grant L	MINE	70712	Rolling Hills Pond Sand And Gravel	7/30/2020	Modification	24.4
Springport	Hanson Aggregates New Yor	MINE	70025	Oakwood Quarry	1/30/2020	Renewal	84.9
Sterling	Circle T Sterling LLC	MINE	71015	Martville Mine	9/8/2020	Renewal	5.5
<b>Chautauqua</b>							
Chautauqua	Eimers, Lawrence/Elenore	MINE	90304	A. Kopta's Farm	2/24/2020	Renewal	38.3
Cherry Creek	Tri-James Services Inc	MINE	91072	Tri-James Cherry Creek Mine	6/17/2020	New	6.8
Mina	Girts Sand & Gravel LLC	MINE	90580	Beckerink Gravel Pit	5/28/2020	Renewal	6.2
North Harmony	Sundlov Construction Inc	MINE	90287	Aber Pit	5/28/2020	Renewal	14.9
Villanova	Pacos, David J	MINE	90407	Rock Ridge Mine	11/25/2020	Renewal	13.5
<b>Chemung</b>							
Chemung	Dalrymple Gravel & Contracti	MINE	80839	Halstead Pit	7/1/2020	Renewal	29.4
Erin	Edger Civil & Utility LLC	MINE	80024	Blackwell Pit	4/20/2020	Modification	41.0
Horseheads	Cold Spring Construction Co	MINE	80833	Rosark Farm Development	1/13/2020	Renewal	4.5
Horseheads	Edger Civil & Utility LLC	MINE	80855	Narde Gravel Mine	10/29/2020	Modification	10.9
<b>Chenango</b>							
Afton	Hulbert, Jeremy	AUTH	71058	Wacha Quarry	6/16/2020	Renewal	1.0
Greene	Alfred Gorick Co Inc	MINE	70431	Country View Mine	3/5/2020	Renewal	14.0
Greene	T&K Harrington, LLC	MINE	71021	T&K Harrington Sand & Gravel Mine	10/26/2020	Renewal	5.4
Guilford	E & R Pope's Excavating LLC	MINE	70026	NYS Route 8 Pit	7/10/2020	Renewal	24.0
Guilford	Upstate Companies I, LLC	MINE	71020	Upstate Companies Quarry	11/6/2020	Renewal	5.0
New Berlin	New Berlin, Town of - Highwa	MINE	70068	Town Gravel Pit, Angell Road	5/29/2020	Renewal	20.0
North Norwich	Stackhouse, Robert H	MINE	70518	Robert Stackhouse	2/21/2020	Renewal	25.2
Norwich	Syracusa Sand & Gravel Inc.	MINE	70199	Diversified Gravel Mine	6/15/2020	Renewal	19.3
Oxford	Burrell's Excavating Inc	MINE	71068	KMC Quarry	10/19/2020	New	47.0
<b>Clinton</b>							
Black Brook	Maicus, Sidney G and Dwayn	MINE	50732	Maicus Sawmill Pit	4/29/2020	Renewal	14.6

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Clinton</b>							
Mooers	Lafave, Anthony and Kimberly	MINE	51053	Timber Lane	5/21/2020	Renewal	3.5
Mooers	Poirier, Chad	MINE	51060	Lavalley Road Sand Mine	5/26/2020	Renewal	2.0
Mooers	Rabideau Brothers Excavatin	MINE	51070	Timber Lane Sand Pit	1/6/2020	New	4.2
Plattsburgh	Beekmantown, Town of	MINE	50899	Beekmantown Sand Pit	8/16/2020	Renewal	10.3
Schuyler Falls	Conners Sand Pit LLC	MINE	50795	Conners Pit	6/5/2020	Modification	26.9
Schuyler Falls	Don Jerry X-Plo Inc	MINE	50646	X-Plo Sand & Gravel	8/28/2020	Renewal	6.0
Schuyler Falls	Rafferty Sand & Gravel LLC	MINE	50376	Gonyo Sand Pit	6/12/2020	Modification	17.2
Schuyler Falls	Rushford, Douglas d/b/a/ Rus	MINE	50399	Flat Rock Rd. Site 3	3/6/2020	Renewal	21.0
<b>Columbia</b>							
Chatham	Bob Boll Excavating LLC	MINE	40730	Pond Hill Road Mine	7/17/2020	Renewal	20.3
Claverack	North Claverack Developmen	MINE	40719	9H/ Rt.66 Pit	11/6/2020	Renewal	15.7
Greenport	Scott & Theresa LLC	MINE	40595	Bryant Farms Pit	5/12/2020	Renewal	14.2
Livingston	Shapiro, Robert	MINE	40414	Elizaville Pit	9/24/2020	Modification	40.2
New Lebanon	Troy Sand & Gravel Co Inc	MINE	40725	Teal/Brent Sand Pit	11/23/2020	Renewal	36.8
New Lebanon	Troy Sand & Gravel Co Inc	MINE	40725	Teal/Brent Sand Pit	8/10/2020	Modification	36.8
<b>Cortland</b>							
Cortlandville	Economy Paving Co Inc	MINE	70128	Compagni Pit	8/4/2020	Renewal	10.0
Cortlandville	Rt 13 Rocks, LLC	MINE	70436	South Cortland Mine	7/1/2020	Renewal	60.2
Harford	Cortland County Highway De	MINE	70444	Kimmich Pit - NYS Route 38	1/28/2020	Renewal	21.8
Harford	NYS DEC - Div Of Lands & F	MINE	71064	Griggs Gulf Pit	1/23/2020	New	4.6
Homer	Homer Sand & Gravel, LLC	MINE	70630	E-Z Acres	12/10/2020	Modification	28.7
Homer	Suit-Kote Corp	MINE	70031	Homer Materials (Homer North)	3/20/2020	Renewal	88.0
Homer	T H Kinsella Inc	MINE	70630	E-Z Acres	3/16/2020	Renewal	28.7
Willet	T & C Mobile Home & Constr	MINE	71044	Doty Gravel Mine	5/8/2020	Modification	17.3
<b>Delaware</b>							
Colchester	Johnston & Rhodes Blueston	MINE	40737	Signor Quarry	1/14/2020	Modification	8.7
Davenport	Harpersfield, Town of	MINE	40410	Brandow Pit	4/8/2020	Modification	7.0
Deposit	Schaefer Enterprises of Depo	MINE	40914	Rte 8 Quarry	9/11/2020	Renewal	11.3
Franklin	Franklin, Town of	MINE	40375	Landfill Gravel Pit	11/9/2020	Renewal	20.7
Hancock	Colchester, Town of	MINE	40477	Colchester Gravel Bank	9/2/2020	Renewal	8.5
Hancock	Hancock, Town of	MINE	40923	Readburn Sand Pit	2/26/2020	Renewal	7.6
Hancock	Sonny & Sons Stone Compan	MINE	40890	Woodwise Quarry #1	10/26/2020	Renewal	7.4
Harpersfield	Boyle Excavating Inc	MINE	40881	Harpersfield Bank	9/14/2020	Renewal	9.0

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Delaware</b>							
Kortright	Seward Sand & Gravel Inc	MINE	40895	Gillette Quarry	4/6/2020	Modification	21.9
Meredith	Stonewall Pastures LLC	MINE	40954	Stonewall Pastures Quarry	4/6/2020	New	4.5
Middletown	Josh Construction Inc	MINE	40794	Josh Construction Sand & Gravel Ba	3/11/2020	Modification	4.8
Sidney	Wakeman 1 LLC	MINE	40811	Wakeman's Sidney #1 Gravel Mine	8/1/2020	Renewal	4.6
<b>Dutchess</b>							
Dover	Palumbo Sand & Gravel Co. I	MINE	30100	Sherman Hill Rd Site	10/2/2020	Modification	80.5
Dover	Wingdale Materials LLC	MINE	30061	Wingdale Quarry	1/7/2020	Modification	124.2
Fishkill	Bent Wire Inc	MINE	30022	Highland Valley Sand & Gravel Mine	3/16/2020	Modification	47.8
Fishkill	Century Aggregates Inc	MINE	30022	Highland Valley Sand & Gravel Mine	8/27/2020	Modification	47.8
Fishkill	Thalle Industries Inc	MINE	30069	Thalle Fishkill Quarry	7/17/2020	Modification	73.1
Stanford	Irish Hills LLC	MINE	30147	Irish Hills Mine	7/16/2020	Modification	60.0
Washington	Route 82 Sand and Gravel In	MINE	30021	Rt. 82 Sand & Gravel Mine	5/29/2020	Modification	82.8
<b>Erie</b>							
Collins	Dan Gernatt Gravel Products	MINE	90089	Vail Road Pit	11/9/2020	Renewal	68.1
Concord	Gernatt Asphalt Products Inc	MINE	90511	Zylinski Clay Mine	8/3/2020	Renewal	10.7
Concord	Gernatt Asphalt Products Inc	MINE	90978	Wendel Gravel Pit	10/26/2020	Renewal	1.0
Concord	Redland Quarries NY Inc	MINE	90540	Springville Gravel Mine	6/17/2020	Renewal	1.0
Newstead	County Line Stone Co Inc	MINE	90093	Akron Quarry	5/22/2020	Modification	362.2
Sardinia	Woodruff, Charles David	MINE	90500	Woodruff Chaffee Gravel Pit	8/3/2020	Renewal	29.1
<b>Essex</b>							
Lewis	Upstone Materials Inc	MINE	50639	Hale Hill Mine	5/11/2020	Modification	17.6
North Elba	Lake Placid, Village of	MINE	50448	Village Sand Pit	9/30/2020	Modification	3.4
North Elba	Saranac Lake Inc, Village of	MINE	50311	Will Rogers Pit	8/14/2020	Renewal	7.2
North Hudson	North Hudson, Town of	MINE	51025	North Hudson Highway Mine	11/18/2020	Renewal	9.8
St Armand	Saranac Lake Inc, Village of	MINE	51059	Treatment Plant Pit	4/14/2020	Renewal	4.2
St Armand	Upstone Materials Inc	MINE	50058	Saranac Lake Quarry	11/23/2020	Modification	61.4
Willsboro	Jointa Lime Company	MINE	51061	Willsboro Stone	6/22/2020	Renewal	19.0
Willsboro	NYCO Minerals LLC	MINE	50003	Willsboro Mine - Underground	9/28/2020	Renewal	10.5
<b>Franklin</b>							
Bombay	Bombay, Town of	MINE	50872	Town of Bombay Sand Pit	2/27/2020	Modification	7.3
Brandon	Brandon, Town of	MINE	50685	Harrington Road Pit	11/1/2020	Renewal	6.5
Brandon	Brandon, Town of	MINE	50708	Reynoldston Pit	12/17/2020	Renewal	17.0
Constable	H & C Robinson Contractors I	MINE	50882	Robinson Sand Pit	5/7/2020	Renewal	14.0

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Franklin</b>							
Dickinson	Dickinson, Town of	MINE	51081	Poohook Hill Road	8/19/2020	New	2.3
Malone	H & C Robinson Contractors I	MINE	51010	Robinson Gravel	9/28/2020	Modification	5.0
Malone	Snow Haven Inc	MINE	50747	Adirondack Sand And Gravel	6/25/2020	Modification	7.7
Malone	Upstone Materials Inc	MINE	50006	Porter Road Pit	8/31/2020	Renewal	22.0
Moir	Rabideau, Stephen	MINE	51082	Rabideau Sand Pit	11/5/2020	New	3.7
<b>Fulton</b>							
Ephratah	Carver Sand & Gravel LLC	MINE	50766	Don Baker Pit #1	9/29/2020	Modification	50.5
Johnstown	Fulmont Ready Mix Co	MINE	50019	Fulmont Ready Mix Sand	2/5/2020	Modification	65.0
Johnstown	Johnstown, Town of	MINE	50975	Knoblaugh Mine	10/27/2020	Renewal	8.0
Johnstown	MCJ Construction LLC	MINE	50515	Meco Sand & Gravel Bank	2/3/2020	Renewal	18.0
Johnstown	William M Larned & Sons Inc	MINE	51029	Simek Mine	10/20/2020	Modification	10.3
Mayfield	Mayfield, Town of	MINE	50552	Mayfield Sand Bank	9/1/2020	Renewal	4.0
Northampton	Adirondack Natural Resource	MINE	50068	Bradt mine	6/11/2020	Modification	81.0
<b>Genesee</b>							
Alexander	VCNA United Materials LLC	MINE	80061	Frey S & G	4/14/2020	Renewal	302.4
Bethany	Lor-Rob Dairy Farm	MINE	80528	Murta Pit	7/7/2020	Renewal	1.5
<b>Greene</b>							
Athens	Sandhu Industries Inc	MINE	40381	Valley Road Pit	11/27/2020	Modification	7.1
Catskill	Lehigh Cement Company LL	MINE	40041	Cementon/Alsen Quarry	2/6/2020	Modification	280.0
Coxsackie	Tilcon New York Inc	MINE	40319	High Hill Quarry	10/30/2020	Modification	37.6
Durham	Buoniconto, Richard	MINE	40676	Durham Sand And Gravel	3/16/2020	Renewal	13.6
Lexington	Evergreen Mountain Contracti	MINE	40823	Beech Ridge #2	5/4/2020	Renewal	8.3
<b>Herkimer</b>							
Frankfort	Leitz Trucking Corp	MINE	60497	Leitz Gravel Pit	1/30/2020	Modification	50.9
Litchfield	Beckwith, Robert	MINE	60149	Beckwith Sand & Gravel Pit	10/13/2020	Renewal	18.0
Norway	PSG Realty, LLC	MINE	60647	Norway Pit	3/19/2020	Renewal	73.8
Norway	PSG Realty, LLC	MINE	60647	Norway Pit	3/19/2020	Renewal	73.8
Russia	Certified Road Constructors I	MINE	60053	Gravesville Plant	1/3/2020	Renewal	150.9
Russia	Hanson Aggregates New Yor	MINE	60190	Poland S&G	3/2/2020	Renewal	175.5
Schuyler	Ryan Aldrich Trucking + Sawi	MINE	60567	Tripple Pit	9/21/2020	Modification	12.8
Warren	Hanson Aggregates New Yor	MINE	60037	Jordanville Quarry	2/13/2020	Renewal	232.4
<b>Jefferson</b>							
Alexandria	Fitzsimmons, Michael	MINE	60717	Fitzsimmons Quarry	3/2/2020	Renewal	4.8

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Jefferson</b>							
Alexandria	Forger Marceau Industries, In	MINE	60134	Hunter Pit	11/19/2020	Modification	33.2
Alexandria	Royce Newberry Construction	MINE	60853	Newberry Mine	1/17/2020	Renewal	9.5
Champion	Cranesville Aggregate Comp	MINE	60874	West Carthage Site	3/2/2020	Renewal	27.1
Clayton	Bach Plumbing & Heating Co	MINE	60930	Route 12 Gravel Mine	1/8/2020	Renewal	18.2
Clayton	Thousand Islands Ventures L	MINE	60084	Crystal Springs Road Site	4/20/2020	Renewal	19.4
Ellisburg	Rural Hill Sand & Gravel	MINE	60002	Gravel Pit	2/2/2020	Renewal	41.1
Leray	Meeks, Lisa K & Ferguson J	MINE	61153	Walts Farm Topsoil Mine	6/18/2020	Modification	11.0
Leray	Meeks, Lisa K & Ferguson J	MINE	61153	Walts Farm Topsoil Mine	9/25/2020	Modification	11.0
Orleans	Forger Marceau Industries, In	MINE	60072	Flick Mine	11/19/2020	Modification	47.2
Orleans	Thompson, William	MINE	60777	L. A. Quarry	1/22/2020	Modification	32.0
Rutland	John Vespa Inc	MINE	60168	Felts Mills Pit	12/1/2020	Renewal	38.4
Theresa	Meeks, Lisa K & Ferguson J	MINE	60812	Bartlett Mine	11/23/2020	Renewal	15.3
Watertown	John Vespa Inc	MINE	60087	Overlook Drive Quarry	12/1/2020	Renewal	39.2
Wilna	Groff, Terry N	MINE	61054	Groff Mine	9/2/2020	Renewal	4.9
<b>Lewis</b>							
Leyden	Barrett Paving Materials Inc	MINE	61080	Port Leyden Quarry	2/11/2020	Modification	39.5
Lowville	MJL Crushing LLC	MINE	61069	Rte 26 North Lowville	3/3/2020	Modification	29.9
Lowville	V S Virkler & Son Inc	MINE	60952	Lomeo Mine	10/14/2020	Renewal	29.0
Martinsburg	Deer River Ranch Inc	MINE	61094	Denali Gravel Pit	9/10/2020	Renewal	4.5
Martinsburg	V S Virkler & Son Inc	MINE	60856	East Martinsburg	1/24/2020	Renewal	58.2
New Bremen	Lyndaker Excavating & Trucki	MINE	60688	Walseman Site	9/16/2020	Renewal	36.8
Turin	Maciejko, Jason	MINE	60985	Ehlers Mine	11/10/2020	Renewal	3.5
<b>Livingston</b>							
Avon	Oak Openings LLC	MINE	80857	Oak Openings Rd	2/14/2020	Modification	40.0
Avon	Oak Openings LLC	MINE	80857	Oak Openings Rd	4/21/2020	Modification	40.0
Caledonia	HLD Properties LLC	MINE	80241	Scottsville Mine	9/1/2020	Renewal	5.8
Caledonia	Puncher Development LLC	MINE	80863	Caledonia Pit-West Pit	12/9/2020	Modification	116.3
Caledonia	Puncher Development LLC	MINE	80863	Caledonia Pit-West Pit	3/24/2020	Modification	116.3
Leicester	Hull, Gerald	MINE	80132	Leicester Pit	3/10/2020	Renewal	9.9
Lima	Hanson Aggregates New Yor	MINE	80030	Rochester Plant (Honeoye Falls Qua	8/27/2020	Renewal	329.3
Lima	Lima, Town of - Highway Dep	MINE	80012	Mroczek Pit	5/19/2020	Renewal	15.7
Nunda	Lawson, Gail, Tracy M, Clair	MINE	80250	Lawson S & G	1/6/2020	Modification	47.2
Nunda	Nunda, Village of	MINE	80250	Lawson S & G	6/30/2020	Modification	47.2

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Madison</b>							
Cazenovia	Cunningham Trucking LLC	MINE	70198	Zupan Gravel Bed - East Road	12/10/2020	Modification	41.2
Cazenovia	Nick W Zupan & Sons Inc	MINE	70198	Zupan Gravel Bed - East Road	6/3/2020	Renewal	41.2
Hamilton	Carhart, Edward	MINE	70729	White Eagle Sand And Stone Poolev	8/26/2020	Renewal	19.4
Smithfield	Smithtown, Town of	MINE	70218	Williams Gravel Bed - Pleasant Valle	8/5/2020	Renewal	9.0
Stockbridge	Snyder Construction Co Inc	MINE	70106	Munnsville Gravel Bed - Pratts Road	7/10/2020	Renewal	16.1
<b>Monroe</b>							
Hamlin	Keeler Construction Co Inc	MINE	80532	Moscow Road Pit	2/5/2020	Modification	24.4
Ogden	L L Huff Co Inc	MINE	80274	Huff Sand Pit	4/7/2020	Renewal	24.1
Pittsford	Lehman, Roy R	MINE	80106	Genesee S & G	1/8/2020	Renewal	38.0
Sweden	Callanan Industries Inc	MINE	80042	Brockport Quarry	1/27/2020	Renewal	297.6
Wheatland	Miller, Jack W	MINE	80563	A & R Pit	1/31/2020	Modification	2.0
Wheatland	Miller, Jack W	MINE	80563	A & R Pit	6/30/2020	Modification	2.0
<b>Montgomery</b>							
Florida	Cushing Stone Co Inc	MINE	40095	Cranesville Quarry	7/14/2020	Modification	190.0
Mohawk	William M Larned & Sons Inc	MINE	40147	Bellinger Pit	8/11/2020	Renewal	14.9
<b>Niagara</b>							
Lewiston	Tug Hill Environmental LLC	MINE	90707	Bergey Mine Site	10/5/2020	Renewal	34.2
<b>Oneida</b>							
Boonville	Hanson Aggregates New Yor	MINE	60204	Sperry Hill S&G	1/23/2020	Renewal	35.3
Forestport	Forestport, Town of	MINE	60582	Dustin Road Pit	7/29/2020	Renewal	7.0
Marshall	Schachtler, Eric	MINE	61133	Schachtler Quarry	9/4/2020	Modification	2.0
Marshall	Schachtler, Eric	MINE	61133	Schachtler Quarry	2/6/2020	Modification	2.0
Rome	Morrison, John F	MINE	60192	Reber Road Pit	6/8/2020	Renewal	59.5
Rome	Poland Sand & Gravel LLC	MINE	60966	Wilson Road Mine	10/9/2020	Renewal	6.8
Trenton	Hajdasz, Albert	MINE	60247	Hajdasz Sand & Gravel Pit	3/4/2020	Modification	3.0
Western	Alliance Paving Materials Inc	MINE	60976	River Road Mine	6/9/2020	Renewal	29.5
<b>Onondaga</b>							
Dewitt	Hanson Aggregates New Yor	MINE	70021	Rock Cut Quarry	11/23/2020	Renewal	103.8
Fabius	T H Kinsella Inc	MINE	70594	Dwyer Gravel Bed, Oran-Delphi Roa	9/9/2020	Renewal	42.0
Marcellus	Fey's Gravel Pit LLC	MINE	70176	Fey Mine	6/12/2020	Renewal	10.1
Marcellus	J J Mining Company Inc	MINE	70487	Marcellus Products - Masters Road	10/15/2020	Renewal	4.5
Skaneateles	Cemento LLC	MINE	70759	Sandy Hill Sand & Gravel Mine - Stu	2/14/2020	Renewal	27.7
Skaneateles	Smith, David J	MINE	70585	Hoyt Road Pit - Hoyt Road	11/4/2020	Renewal	10.2

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<b>Ontario</b>							
Canandaigua	Warner, David & Glenn	MINE	80183	Warner Mine	9/17/2020	Renewal	4.8
Manchester	Willow Bend Farm LLC	MINE	80810	Willow Bend Mine	2/3/2020	Renewal	6.1
Phelps	Dendis Sand & Gravel Inc	MINE	80518	Boyde Pit	3/4/2020	Renewal	35.0
Phelps	Dendis Sand & Gravel Inc	MINE	80650	Palone Gravel Mine	3/2/2020	Renewal	14.3
Phelps	Hanson Aggregates New Yor	MINE	80009	Phelps S&G Mine	2/3/2020	Modification	279.8
Phelps	Hanson Aggregates New Yor	MINE	80009	Phelps S&G Mine	6/2/2020	Modification	279.8
South Bristol	Fields Construction & Excava	MINE	80168	Pine View Pit	1/13/2020	Modification	17.4
Victor	Genesee Sand & Gravel, LLC	MINE	80105	Genesee S & G	2/19/2020	Renewal	38.0
<b>Orange</b>							
Chester	Chester Hill Holding Compan	MINE	30658	Chester Hill Holding Quarry	1/17/2020	Renewal	11.0
Minisink	Dean Ford & Sons Dairy Far	MINE	30653	Ford Farm Mine	11/9/2020	Renewal	4.0
Wawayanda	Ward Pavements Inc	MINE	30561	Garten Mine	5/20/2020	Renewal	15.7
Woodbury	Speyside Holdings LLC	MINE	30171	Speyside Quarry	8/12/2020	Modification	97.0
<b>Orleans</b>							
Barre	Keeler Construction Co Inc	MINE	80166	Wilson Quarry	12/1/2020	Renewal	236.4
Barre	Keeler Construction Co Inc	MINE	80498	Nesbit Pit	10/20/2020	Renewal	1.2
Clarendon	Keeler Construction Co Inc	MINE	80045	Chugg Road Pit	8/27/2020	Renewal	10.3
Clarendon	Keeler Construction Co Inc	MINE	80127	Harrington Pit	6/17/2020	Modification	33.6
Ridgeway	Orleans Construction LLC	MINE	80277	Orleans Construction Co. Mine	7/7/2020	Renewal	20.3
Shelby	West Shelby Sand & Gravel I	MINE	80333	West Shelby S & G	4/7/2020	Renewal	14.8
<b>Oswego</b>							
Albion	Coffin, Robert E	MINE	71060	Coffin Centerville Mine	7/10/2020	New	4.7
Amboy	Amboy, Town of	MINE	70324	Allen Lasalle Mine - Finnerty Road	2/25/2020	Renewal	20.0
Hannibal	WD Malone Trucking & Excav	MINE	70842	Harris Hill Mine	5/7/2020	Renewal	5.8
Hannibal	WD Malone Trucking & Excav	MINE	71067	Muck Road Mine	11/23/2020	New	13.0
Hannibal	Wheats' Backhoe and Snow	MINE	70970	Wheats' Pit	10/7/2020	Renewal	19.9
Hastings	Hildreth, Allen R	MINE	70977	Hildreth-Nellis Mine	2/26/2020	Renewal	4.8
Hastings	U-Telco Utilities Inc	MINE	71065	1877 Mine	11/5/2020	New	5.0
Hastings	Weaver, Robert L	MINE	70926	Gravel Run Mine	6/11/2020	Modification	11.3
Mexico	Earl Becker Construction Inc	MINE	70325	Peterson Mine - NYS Route 69	4/21/2020	Renewal	30.8
Mexico	Ladd, Earl	MINE	70326	Ladd Pit- Popple Ridge Road	4/27/2020	Renewal	10.7
New Haven	Lindsey Aggregates Inc	MINE	70663	Pit #2	4/23/2020	Modification	4.9
Palermo	Green's Bradshaw Pit LLC	MINE	70469	Bradshaw Rd. Pit (Formerly Green	4/23/2020	Modification	9.9

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<b>Oswego</b>							
Part	Coffin, Robert E	MINE	70445	Coffin Farm Pit #1 -Co. Rt. 48 & Cob	2/2/2020	Renewal	28.3
Redfield	Oswego County DPW	MINE	70439	Redfield Stone Quarry	7/10/2020	Renewal	3.3
Richland	Coffin, Robert E	MINE	70813	Coffin Topsoil Mine - Peck Road	11/30/2020	Modification	29.6
Schroepfel	A J Montclair Inc	MINE	70920	Schroepfel Pit	10/27/2020	Renewal	1.9
Schroepfel	Schroepfel, Town of - Highw	MINE	70308	Boy Scout Pit	7/31/2020	Renewal	26.0
Scriba	Oswego County DPW	MINE	70059	Scriba Mine	8/12/2020	Renewal	11.9
Scriba	Syracuse Sand & Gravel LLC	MINE	70723	Maiden Lane Mine	2/18/2020	Renewal	35.3
Volney	H & R Topsoil Inc	MINE	70612	H&R Topsoil	7/30/2020	Modification	35.0
Volney	Syracusa Sand & Gravel Inc.	MINE	70721	Fitch/Old Lady Mine	7/9/2020	Renewal	32.0
<b>Otsego</b>							
Middlefield	Heroux Excavating Inc	MINE	40689	Rt. 166 Pit	7/24/2020	Modification	43.7
Middlefield	Heroux Excavating Inc	MINE	40689	Rt. 166 Pit	9/17/2020	Modification	43.7
Middlefield	Middlefield, Town of	MINE	40646	Middlefield Sand & Gravel	9/1/2020	Modification	8.0
Pittsfield	Benson, David, Gregory, Lind	MINE	40113	NYS Rt.80 / Benson Gravel-Hoboke	1/23/2020	Modification	26.0
Unadilla	Burton F Clark Inc	MINE	40798	Earl Road Gravel Mine	12/14/2020	Modification	28.3
<b>Rensselaer</b>							
Berlin	Roger Vincent Construction L	MINE	40912	Roger Vincent Construction	6/5/2020	Modification	1.5
Brunswick	Callanan Industries Inc	MINE	40031	Cropseyville Quarry	7/20/2020	Modification	98.0
Brunswick	Callanan Industries Inc	MINE	40523	Fane/Cropseyville Quarry	3/13/2020	Renewal	46.0
East Greenbush	Edison Paving Corp	MINE	40322	Onderdonk Ridge Pit	10/28/2020	Modification	12.6
Petersburg	Valente Materials Group LP	MINE	40223	Bentley Pit	8/25/2020	Renewal	17.1
Pittstown	SM Gallivan LLC	MINE	40112	Storm Hill Road Pit	8/14/2020	Renewal	12.6
Sand Lake	Hunt, Brian (aka Buster)	MINE	40913	Hunt Gravel Mine	9/22/2020	Renewal	12.6
Sand Lake	Rifenburg Construction Inc	MINE	40137	Hoffay Farm Pit	9/15/2020	Modification	116.3
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40762	Weir Sand & Gravel Mine	9/18/2020	Modification	40.9
Schaghticoke	Wag Truck Sales Inc	MINE	40542	Brown Road Bank	3/15/2020	Renewal	5.0
Schaghticoke	Warren W Fane Inc	MINE	40289	Hemstreet Park Pit	3/23/2020	Modification	267.5
Schaghticoke	Warren W Fane Inc	MINE	40289	Hemstreet Park Pit	1/13/2020	Renewal	267.5
Schaghticoke	Warren W Fane Inc	MINE	40570	Rt. 67/ Spaulding Pit	6/5/2020	Renewal	62.0
Schaghticoke	WestWind AG LLC	MINE	40836	West Wind Farms	7/20/2020	Modification	15.6
Schodack	Wm Keller & Sons Realty Cor	MINE	40270	Old Post Rd. Pit	8/2/2020	Modification	52.9
<b>Saratoga</b>							
Corinth	Sandwick, Verna	MINE	50276	Heath Road Bank	8/24/2020	Renewal	3.0

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<b>Saratoga</b>							
Day	Day, Town of	MINE	50650	Hollow Road Pit	1/14/2020	Renewal	9.0
Halfmoon	CP Landmark Ltd	MINE	50910	HM Mine	10/6/2020	Renewal	17.0
Halfmoon	Troy Top Soil Co Inc	MINE	50508	Troy Topsoil Pit	8/10/2020	Modification	43.0
Halfmoon	Troy Top Soil Co Inc	MINE	50508	Troy Topsoil Pit	5/21/2020	Renewal	43.0
Moreau	Finch Paper LLC	MINE	50742	Smith Farm Mine	4/14/2020	Renewal	8.7
Northumberland	Morning Star Excavating Inc	MINE	50892	Morning Star Mine	2/11/2020	Renewal	14.2
Providence	Toga Stone, LLC	MINE	51055	Clark Road Quarry	6/12/2020	Modification	7.5
Providence	Troy Top Soil Co Inc	MINE	50479	Providence Bank	3/11/2020	Renewal	12.5
Stillwater	Charles F Dyer & Sons Const	MINE	50370	Stillwater mine	8/12/2020	Renewal	8.2
Stillwater	The Luther Forest Corp	MINE	50049	Luther Forest Mine	8/14/2020	Modification	53.9
Stillwater	Willow Glen Sand And Gravel	MINE	50144	Willow Glen Mine	5/21/2020	Renewal	12.5
<b>Schenectady</b>							
Glenville	Cranesville Aggregate Comp	MINE	40093	Van Buren Bank	1/23/2020	Renewal	55.0
Glenville	William M Larned & Sons Inc	MINE	40784	Vley Road Site	6/3/2020	Renewal	5.6
<b>Schoharie</b>							
Conesville	Carman, Nancy	MINE	40791	Conesville Sand & Gravel	12/7/2020	Modification	6.0
Conesville	Eric J Dahlberg Construction I	MINE	40950	Dahlberg Sand & Gravel Mine	6/26/2020	New	7.7
Conesville	Eric J Dahlberg Construction I	MINE	40950	Dahlberg Sand & Gravel Mine	7/16/2020	Modification	7.7
Conesville	Rock-N-Pinkster Farm LLC	MINE	40829	Manor Kill Mine	9/25/2020	Renewal	13.0
Middleburg	Carver Sand & Gravel LLC	MINE	40138	Clauverwie Road Pit	1/1/2020	Renewal	33.1
Middleburg	Carver Sand & Gravel LLC	MINE	40220	Middleburgh Ag Lime Mine	11/23/2020	Modification	125.0
Middleburg	Carver Sand & Gravel LLC	MINE	40220	Middleburgh Ag Lime Mine	1/6/2020	Modification	125.0
Seward	Seward, Town of - Highway D	MINE	40176	Brumaghim Pit	7/17/2020	Renewal	7.0
<b>Schuyler</b>							
Hector	Hector, Town of	MINE	80838	Jolly Road Gravel Mine	10/22/2020	Renewal	16.4
Montour	Catharine, Town of	MINE	80723	Reynolds Pit	12/1/2020	Renewal	9.9
<b>Seneca</b>							
Junius	Seneca Meadows Inc	MINE	80331	Avery Road Pit	1/13/2020	Renewal	48.8
Waterloo	Dendis Sand & Gravel Inc	MINE	80627	Dendis Pit	1/31/2020	Modification	25.6
<b>St. Lawrence</b>							
Brasher	Seaway Timber Harvesting In	MINE	61151	LaClair Topsoil Mine	4/1/2020	New	1.0
Clare	Clare, Town of	MINE	60631	Sharpstene Pit	5/22/2020	Renewal	4.8
Edwards	French, Wayne	MINE	60876	Pit # 2	6/16/2020	Renewal	3.8

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<b>St. Lawrence</b>							
Fowler	Empire State Mines LLC	MINE	60027	Number 4 Mine	8/12/2020	Renewal	800.0
Gouverneur	Jenkins, Don W Jr	MINE	60905	Wells Mine	7/29/2020	Renewal	2.5
Gouverneur	Shawn Cullen	MINE	60350	Cullen Sand & Gravel	7/8/2020	Modification	30.5
Lawrence	SFLH, LLC	MINE	61155	Stauffer Sand Pit	6/11/2020	New	5.5
Lisbon	McBath, Hollis	MINE	60422	Tuck Road	6/17/2020	Renewal	17.0
Madrid	Waddington, Town of	MINE	61132	Crites Sand Pit	12/4/2020	Renewal	5.0
Norfolk	Barrett Paving Materials Inc	MINE	60047	Norwood Quarry	6/18/2020	Renewal	144.2
Norfolk	Curran Logging Inc	MINE	61152	Van Kennen Topsoil	6/22/2020	Modification	92.5
Norfolk	Curran Logging Inc	MINE	61161	Schwartz #1	12/15/2020	New	4.9
Norfolk	Perras Excavating Inc	MINE	61157	Grant Topsoil Mine	11/5/2020	New	12.6
Parishville	Parishville Sand & Gravel Inc	MINE	60141	Parishville Sand & Gravel	4/30/2020	Renewal	36.3
Parishville	Randall, Ralph N & Constanc	MINE	60639	Lenny Road	10/26/2020	Modification	19.5
Parishville	Randall, Ralph N & Constanc	MINE	60639	Lenny Road	11/5/2020	Modification	19.5
Parishville	Randall, Richard	MINE	61147	Benson Road Mine	1/13/2020	Modification	4.5
Parishville	Ward Excavating & Paving In	MINE	61128	Ward Gravel Pit	4/28/2020	Renewal	2.0
Potsdam	Potsdam, Town of	MINE	61093	Collins Sand Pit	11/5/2020	Renewal	5.0
Potsdam	Potsdam, Town of	MINE	61093	Collins Sand Pit	10/28/2020	Renewal	5.0
Rossie	Cooke Sand & Gravel Inc	MINE	60086	Soper Pit	9/22/2020	Modification	26.1
Russell	Gotham, Janet And Richard	MINE	60380	Gotham/Burch Pit	1/8/2020	Renewal	11.3
Russell	Willard, Andrew and Raeleen	MINE	60238	Barry Pit	5/6/2020	Modification	9.3
Stockholm	Curran Logging Inc	MINE	60756	Schwartz #2 mine	12/29/2020	Modification	43.4
Stockholm	Curran Logging Inc	MINE	60756	Schwartz #2 mine	8/27/2020	Modification	43.4
Stockholm	J E Sheehan Contracting Cor	MINE	60762	Catamount Ridge Mine	12/9/2020	Modification	103.0
Stockholm	Perkins Excavating	MINE	61156	Stockholm Topsoil and Gravel Mine	10/29/2020	New	21.0
Stockholm	Stockholm, Town of	MINE	61045	County Route 47 Pit	11/4/2020	Renewal	10.0
<b>Steuben</b>							
Addison	Addison, Town of	MINE	80163	Addison Gravel Pit	3/25/2020	Renewal	21.0
Avoca	Avoca, Town of	MINE	80836	Avoca Gravel Pit	1/17/2020	Renewal	5.5
Avoca	Hubbard, Timothy	MINE	80665	Hub-Boy Gravel Products	12/1/2020	Renewal	19.6
Bath	Howard, Town of	MINE	80554	Helm Pit	5/11/2020	Modification	14.5
Bath	Knight Settlement Sand & Gr	MINE	80013	Bath Pit	3/2/2020	Modification	200.3
Bath	ST Coots LLC	MINE	80854	Savona Site	7/7/2020	Renewal	38.4
Bradford	NYS DEC	MINE	80817	Birdseye Hollow - Aulls Road	9/1/2020	Renewal	2.3

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<b>Steuben</b>							
Cameron	Cameron, Town of	MINE	80759	County Rte 22 Gravel Pit	12/18/2020	Renewal	10.0
Campbell	Dalrymple Gravel & Contracti	MINE	80034	Coopers Plains Mine	3/4/2020	Renewal	104.0
Canisteo	Canisteo, Town of	MINE	80347	Colonel Bills Creek	8/27/2020	Renewal	4.6
Corning	Dalrymple Gravel & Contracti	MINE	80026	East Corning Pit	10/8/2020	Renewal	50.0
Corning	Steuben Contracting Inc	MINE	80008	East Corning Pit	12/14/2020	Renewal	129.2
Erwin	Cold Spring Construction Co	MINE	80752	Cold Spring Development	1/24/2020	Renewal	93.5
Erwin	Knowles, Larry	MINE	80586	Gang Mills Pit	4/1/2020	Modification	7.7
Howard	Dolomite Products Company I	MINE	80203	Howard Operation	6/17/2020	Modification	202.6
Troupsburg	Carpenter, Dorothy	MINE	80842	Chenang Farms Gravel Pit	8/6/2020	Renewal	2.4
Urbana	Ray Kolo Excavating, Inc.	MINE	80288	Gravel Pit	1/9/2020	Renewal	7.0
West Union	West Union, Town of	MINE	80684	Reed Sampson	9/8/2020	Renewal	13.4
<b>Suffolk</b>							
Brookhaven	Brookhaven, Town of	MINE	10128	Tri-Hamlet Park	5/4/2020	New	4.7
East Hampton	Sand Highway LLC	MINE	10072	Sand Highway LLC	3/30/2020	Modification	11.6
Huntington	West Hills Silica Sand Mining	MINE	10001	110 Sand Co.	9/23/2020	Renewal	257.0
Riverhead	Suffolk Cement Products Inc	MINE	10018	Suffolk Cement Plant Site	9/11/2020	Renewal	21.0
Shelter Island	Shelter Island S & G Contract	MINE	10019	Shelter Island Sand And Gravel	6/24/2020	Renewal	7.0
Smithtown	Cox Industries LLC	MINE	10061	R Schleider Contracting	12/21/2020	Modification	21.0
Southampton	East Coast Mines & Materials	MINE	10020	East Coast Mines	10/27/2020	Modification	156.7
Southampton	Sand Land Corp	MINE	10033	Sand Land Mining	5/1/2020	Modification	34.5
<b>Sullivan</b>							
Bethel	Town of Bethel	MINE	30086	Blum Rd. Gravel Mine	6/5/2020	Renewal	13.0
Cochecton	Little Joseph Realty LLC	MINE	30596	Little Joseph Realty Mine	1/17/2020	Renewal	4.8
Liberty	Burke, Jay G	MINE	30404	Cooley Shale Pit	5/11/2020	Renewal	3.2
<b>Tioga</b>							
Barton	Austin's Excavating And Pavi	MINE	70657	Hubish Mine - Milltown, Pa.	8/24/2020	Renewal	14.3
Barton	Austin's Excavating And Pavi	MINE	70766	Austin Sand & Gravel	5/26/2020	Renewal	19.8
Barton	Barton, Town of - Highway De	MINE	70204	Town Of Barton - Gravel Pit #1	7/8/2020	Renewal	16.8
Barton	El-Ba Park LLC	MINE	70809	Hartman Mine - NYS Route 17	10/16/2020	Modification	23.2
Candor	Van Etten, Martin R	MINE	70878	Martin Van Etten Mine	4/15/2020	Renewal	3.9
Nichols	F S Lopke Contracting Inc	MINE	70167	River Drive Mine	7/21/2020	Modification	277.0
Nichols	F S Lopke Contracting Inc	MINE	70770	Buck-Wheeler-Day	10/16/2020	Modification	151.5
Owego	Barney And Dickenson Inc	MINE	70856	Truman Pit	12/2/2020	Renewal	43.4

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Tioga</b>							
Owego	Riverside Sod Farm LLC	MINE	70736	Jackson's Pit	7/27/2020	Modification	4.9
Richford	Richford, Town of - Highway	MINE	70067	Harrington/Hayes Mine	7/23/2020	Renewal	24.9
Spencer	King, John A	MINE	70753	King Mine	9/8/2020	Renewal	23.9
Tioga	F S Lopke Contracting Inc	MINE	70655	Schoonover	2/12/2020	Renewal	31.8
<b>Tompkins</b>							
Caroline	University Sand And Gravel I	MINE	70010	Brooktondale Pit	2/5/2020	Renewal	59.2
<b>Ulster</b>							
Esopus	Callanan Industries Inc	MINE	30184	Port Ewen Quarry	2/7/2020	Renewal	139.0
Kingston	Rt 28 Material Supplies Inc	MINE	30696	Route 28 Material Supply Inc	10/19/2020	New	8.0
Kingston	Rt 28 Material Supplies Inc	MINE	30696	Route 28 Material Supply Inc	9/11/2020	New	8.0
New Paltz	Roehrs Construction Inc	MINE	30212	Roehrs Mine, Plains Rd.	1/23/2020	Renewal	31.0
Rochester	Frank Kortright Excavating In	MINE	30144	Rochester Center Road Pit	4/28/2020	Renewal	18.2
Rochester	Mombaccus Excavating Inc	MINE	30455	Mombaccus Estates, Ltd. Mine	12/4/2020	Modification	9.7
Shawangunk	Marbil Corp	MINE	30603	Marbil Corp. Mine	8/20/2020	Renewal	4.9
<b>Warren</b>							
Bolton	Bolton, Town of	MINE	50330	Lake Shore mine	5/21/2020	Renewal	6.0
Chester	W J Bokus Industries Inc	MINE	50457	High Peaks Asphalt Pit	10/2/2020	Renewal	7.0
Johnsburg	Barton Mines Co LLC	MINE	50483	Ruby Mt. Quarry	3/2/2020	Renewal	194.5
Lake George	Lake George, Town of	MINE	50244	Laino Property	11/16/2020	Renewal	30.2
Queensbury	Harris Mud Pond LLC	MINE	50453	Harris Mud Pond	2/24/2020	Renewal	15.4
Queensbury	Jenkinsville Sand and Gravel	MINE	50074	McLaughlin Pit	3/11/2020	Renewal	20.0
Queensbury	Kubricky Construction Corp	MINE	50232	Ridge Road Pit #1	3/9/2020	Modification	7.5
Queensbury	The Fort Miller Co Inc	MINE	50070	Fort Miller Aggregates Pit	3/9/2020	Modification	66.1
Stony Creek	Stony Creek, Town of	MINE	50438	Town Sand & Gravel Pit	1/29/2020	Renewal	15.8
Thurman	Thurman, Town of	MINE	50845	River Road Pit	12/16/2020	Renewal	10.0
<b>Washington</b>							
Cambridge	Korb, Walter F Jr	MINE	50480	Korb Gravel Mine	3/13/2020	Renewal	9.0
Easton	Peckham Materials Corp	MINE	50568	Easton Site	3/17/2020	Renewal	36.0
Fort Ann	Charles Friedman Excavating	MINE	50121	Stiles Pit	12/4/2020	Modification	43.1
Fort Ann	Harris Trucking LLC	MINE	50142	Lee Gravel Pit	2/5/2020	Renewal	19.2
Greenwich	Greenwich Materials LLC	MINE	51079	Greenwich Materials Mine	7/3/2020	New	5.0
Greenwich	Lewandowski, Thomas	MINE	50806	Lewandoski mine	10/19/2020	Renewal	26.9
Salem	Ron Jameson Contractor LLC	MINE	51051	Route 29 Pit	1/28/2020	Renewal	4.0

## Mined Land Permits Issued During 2020

1/5/2021

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
<b>Washington</b>							
Salem	Salem, Town of	MINE	50446	Town Of Salem Sand & Gravel Pit	9/29/2020	Renewal	14.5
Whitehall	Graves, Martin	MINE	50962	Quarry #1 and #2	7/2/2020	Renewal	5.8
<b>Wayne</b>							
Arcadia	Art Graf Inc	MINE	80152	Art Graf, Inc. Mine	11/10/2020	Renewal	13.6
Arcadia	Dendis Sand & Gravel Inc	MINE	80726	Dendis Newark Pit	10/6/2020	Renewal	51.6
Arcadia	Dolomite Products Company I	MINE	80643	Newark Operation	7/7/2020	Renewal	122.7
Butler	Hanson Aggregates New Yor	MINE	80606	Butler Quarry	1/21/2020	Modification	79.4
Galen	Dendis Sand & Gravel Inc	MINE	80849	Perry Road Pit	12/21/2020	Renewal	31.1
Galen	Montemorano Bros Inc	MINE	80792	Montemorano Pit 5	1/17/2020	Renewal	24.9
Lyons	Montemorano Bros Inc	MINE	80768	Montemorano Pit #4 - South Lyons	1/17/2020	Modification	11.7
Macedon	Eastern Sand & Gravel Inc	MINE	80566	Macedon II (Former Walworth Rd. Pi	3/31/2020	Renewal	43.6
Rose	Montemorano Bros Inc	MINE	80465	Bacon Pit	12/18/2020	Renewal	23.7
Sodus	Crushmore LLC	MINE	80710	Smith Gravel Pit	6/17/2020	Modification	48.3
Sodus	Crushmore LLC	MINE	80710	Smith Gravel Pit	11/17/2020	Renewal	48.3
Sodus	Grandpas Nursery & Gardens	MINE	80505	Grandpa's Gravel Pit	7/7/2020	Renewal	28.6
Sodus	Syracuse Sand & Gravel LLC	MINE	80841	Quarry Road	6/29/2020	Renewal	32.7
Walworth	Dolomite Products Company I	MINE	80022	Walworth Quarry	12/30/2020	Renewal	241.0
Wolcott	JMJ Sand & Gravel Inc	MINE	80736	Red Creek Road Sand & Gravel Fac	2/19/2020	Renewal	7.3
<b>Wyoming</b>							
Eagle	Brown, Gail R	MINE	90561	Telegraph Sand & Gravel Mine	10/20/2020	Renewal	11.2
Eagle	Davis, James F Jr	MINE	90995	Davis Valley Farm Gravel Mine	6/17/2020	Renewal	12.4
Gainesville	Edward Hulme Inc	MINE	90686	Johnson Gravel Pit	8/3/2020	Renewal	15.5
Java	MW&E Aggregates LLC	MINE	91069	MW&E Aggregates Mine	5/22/2020	New	6.4
Wethersfield	D&H Materials Inc	MINE	90283	Pleasant Valley Pit	7/22/2020	Modification	11.0
<b>Yates</b>							
Jerusalem	Jerusalem, Town of	MINE	80100	Guyanoga Road	7/1/2020	Renewal	34.0
Potter	Potter, Town of	MINE	80083	Town Of Potter Gravel Pit	3/3/2020	Renewal	19.5
Torrey	Syracuse Sand & Gravel LLC	MINE	80425	Eskildsen Pit	7/1/2020	Renewal	8.0

# **Appendix F**

**Mine Commodities, 2020**

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# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Albany</b>						
Bluestone	2	0	72	46	5	42
Clay	0	6	72	75	75	0
Dolostone	1	0	7	7	0	7
Limestone	3	0	1,654	1,112	35	1,077
Sand and Gravel	12	23	490	466	290	176
Shale	2	4	167	169	28	141
Topsoil	0	1	22	22	22	0
<b>County Totals</b>	<b>20</b>	<b>34</b>	<b>2,484</b>	<b>1,897</b>	<b>454</b>	<b>1,443</b>
<b>Allegany</b>						
Clay	0	2	7	7	7	0
Glacial Till	0	2	3	2	2	0
Sand and Gravel	31	64	1,719	1,078	538	540
Sandstone	0	1	8	8	8	0
Shale	2	0	8	8	0	8
Topsoil	0	1	8	2	2	0
<b>County Totals</b>	<b>33</b>	<b>70</b>	<b>1,753</b>	<b>1,105</b>	<b>557</b>	<b>548</b>
<b>Broome</b>						
Bluestone	50	34	858	491	86	405
Clay	0	2	34	6	6	0
Glacial Till	0	3	19	19	19	0
Sand and Gravel	21	31	1,380	1,282	803	479
Shale	1	0	15	15	0	15
Topsoil	1	1	6	6	3	3
<b>County Totals</b>	<b>73</b>	<b>71</b>	<b>2,311</b>	<b>1,818</b>	<b>916</b>	<b>902</b>
<b>Cattaraugus</b>						
Clay	0	2	16	16	16	0
Glacial Till	0	2	8	8	8	0
Peat	1	0	9	8	0	8
Sand and Gravel	60	62	5,334	3,426	1,343	2,084
Shale	1	5	27	26	24	2
Topsoil	0	1	15	15	15	0
<b>County Totals</b>	<b>62</b>	<b>72</b>	<b>5,408</b>	<b>3,499</b>	<b>1,406</b>	<b>2,094</b>
<b>Cayuga</b>						
Clay	0	4	31	31	31	0
Glacial Till	0	2	26	26	26	0
Limestone	1	0	225	85	0	85
Sand and Gravel	12	49	1,055	577	353	224
Shale	0	1	0	0	0	0
<b>County Totals</b>	<b>13</b>	<b>56</b>	<b>1,337</b>	<b>719</b>	<b>410</b>	<b>309</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Chautauqua</b>						
Clay	1	2	83	83	49	34
Glacial Till	1	2	57	49	28	21
Sand and Gravel	38	98	2,026	1,453	815	639
Sandstone	0	1	28	12	12	0
Shale	1	0	3	3	0	3
Topsoil	0	3	24	31	31	0
<b>County Totals</b>	<b>41</b>	<b>106</b>	<b>2,221</b>	<b>1,632</b>	<b>935</b>	<b>697</b>
<b>Chemung</b>						
Clay	0	1	4	4	4	0
Glacial Till	0	8	0	54	54	0
Sand and Gravel	20	45	987	891	593	298
Topsoil	0	3	59	35	35	0
<b>County Totals</b>	<b>20</b>	<b>57</b>	<b>1,050</b>	<b>984</b>	<b>686</b>	<b>298</b>
<b>Chenango</b>						
Bluestone	6	4	95	65	24	41
Clay	0	1	13	1	1	0
Sand and Gravel	28	53	1,291	1,019	400	620
Sandstone	3	0	224	84	0	84
Shale	2	6	17	17	14	3
Topsoil	0	2	18	6	6	0
<b>County Totals</b>	<b>39</b>	<b>66</b>	<b>1,658</b>	<b>1,192</b>	<b>444</b>	<b>748</b>
<b>Clinton</b>						
Clay	0	3	5	7	7	0
Dolostone	1	0	40	5	0	5
Limestone	5	1	262	187	3	184
Sand and Gravel	50	77	2,225	1,544	749	795
Sandstone	6	0	322	158	32	126
Topsoil	0	4	25	37	37	0
<b>County Totals</b>	<b>62</b>	<b>85</b>	<b>2,880</b>	<b>1,938</b>	<b>828</b>	<b>1,110</b>
<b>Columbia</b>						
Clay	0	6	48	111	111	0
Limestone	2	0	1,265	398	0	398
Peat	0	12	63	75	75	0
Sand and Gravel	20	35	1,209	948	434	515
Shale	1	1	20	19	9	9
<b>County Totals</b>	<b>23</b>	<b>54</b>	<b>2,604</b>	<b>1,551</b>	<b>629</b>	<b>922</b>
<b>Cortland</b>						
Glacial Till	0	2	9	5	5	0
Sand and Gravel	16	34	1,074	806	511	295
Shale	2	1	13	12	1	11
<b>County Totals</b>	<b>18</b>	<b>37</b>	<b>1,096</b>	<b>823</b>	<b>517</b>	<b>306</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Delaware</b>						
Bluestone	32	34	721	564	142	422
Clay	0	1	5	4	4	0
Sand and Gravel	26	69	920	789	462	327
<b>County Totals</b>	<b>58</b>	<b>104</b>	<b>1,646</b>	<b>1,357</b>	<b>607</b>	<b>750</b>
<b>Dutchess</b>						
Dolostone	2	0	818	821	4	817
Glacial Till	0	1	0	0	0	0
Peat	0	1	0	140	140	0
Sand and Gravel	35	93	2,769	2,608	1,826	783
Shale	0	1	0	5	5	0
Stone	0	1	70	70	70	0
<b>County Totals</b>	<b>37</b>	<b>97</b>	<b>3,657</b>	<b>3,644</b>	<b>2,045</b>	<b>1,599</b>
<b>Erie</b>						
Clay	1	13	226	213	203	11
Glacial Till	0	3	72	65	65	0
Limestone	3	0	1,488	1,222	0	1,222
Sand and Gravel	33	39	2,616	1,850	1,071	780
Shale	2	0	11	6	0	6
Topsoil	0	4	226	141	141	0
<b>County Totals</b>	<b>39</b>	<b>59</b>	<b>4,639</b>	<b>3,498</b>	<b>1,479</b>	<b>2,018</b>
<b>Essex</b>						
Clay	0	1	3	3	3	0
Granite	4	0	357	176	1	175
Iron Ore	0	1	138	138	138	0
Limestone	1	2	21	23	4	19
Sand and Gravel	31	50	995	649	248	401
Topsoil	0	2	17	27	27	0
Wollastonite	3	0	292	292	2	290
<b>County Totals</b>	<b>39</b>	<b>56</b>	<b>1,823</b>	<b>1,309</b>	<b>424</b>	<b>885</b>
<b>Franklin</b>						
Clay	1	0	51	26	6	20
Granite	1	0	108	78	0	78
Sand and Gravel	61	64	1,241	926	405	521
Sandstone	1	1	51	26	22	4
Topsoil	0	3	10	30	30	0
<b>County Totals</b>	<b>64</b>	<b>68</b>	<b>1,461</b>	<b>1,086</b>	<b>462</b>	<b>623</b>
<b>Fulton</b>						
Glacial Till	0	1	0	2	2	0
Granite	2	0	243	132	2	130
Sand and Gravel	25	27	988	568	263	305
Topsoil	0	1	8	7	7	0
<b>County Totals</b>	<b>27</b>	<b>29</b>	<b>1,239</b>	<b>708</b>	<b>274</b>	<b>434</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Genesee</b>						
Clay	0	2	17	6	6	0
Gypsum	1	0	15	15	15	0
Limestone	5	0	1,347	866	0	866
Marl	0	2	29	29	29	0
Sand and Gravel	12	21	1,703	940	420	520
<b>County Totals</b>	<b>18</b>	<b>25</b>	<b>3,112</b>	<b>1,856</b>	<b>470</b>	<b>1,386</b>
<b>Greene</b>						
Bluestone	1	0	59	52	0	52
Clay	0	1	12	12	12	0
Glacial Till	0	1	10	10	10	0
Limestone	2	1	2,308	696	68	628
Sand and Gravel	6	19	257	219	184	35
Sandstone	1	1	133	133	4	129
Shale	6	5	315	233	47	187
Topsoil	0	1	8	8	8	0
<b>County Totals</b>	<b>16</b>	<b>29</b>	<b>3,102</b>	<b>1,363</b>	<b>332</b>	<b>1,031</b>
<b>Hamilton</b>						
Dolostone	1	0	35	33	4	29
Sand and Gravel	11	34	232	212	150	62
Stone	0	1	0	4	4	0
<b>County Totals</b>	<b>12</b>	<b>35</b>	<b>267</b>	<b>249</b>	<b>158</b>	<b>91</b>
<b>Herkimer</b>						
Clay	0	8	66	66	66	0
Dolostone	2	0	68	42	0	42
Limestone	3	0	724	525	6	519
Sand and Gravel	33	75	1,686	1,209	440	768
Topsoil	0	2	17	9	9	0
<b>County Totals</b>	<b>38</b>	<b>85</b>	<b>2,562</b>	<b>1,850</b>	<b>521</b>	<b>1,329</b>
<b>Jefferson</b>						
Clay	0	8	83	120	120	0
Dolostone	1	0	61	32	2	30
Granite	1	0	15	5	0	5
Limestone	15	9	1,327	1,109	301	808
Peat	0	2	23	14	14	0
Sand and Gravel	37	136	2,317	1,759	1,124	657
Shale	1	0	2	2	0	2
Topsoil	1	12	291	250	246	4
<b>County Totals</b>	<b>56</b>	<b>167</b>	<b>4,119</b>	<b>3,291</b>	<b>1,807</b>	<b>1,505</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Lewis</b>						
Clay	0	3	6	6	6	0
Limestone	4	1	272	160	3	157
Sand and Gravel	22	94	872	751	459	292
Shale	1	11	59	58	55	3
Topsoil	0	1	0	3	3	0
Wollastonite	1	0	54	47	8	38
<b>County Totals</b>	<b>28</b>	<b>110</b>	<b>1,262</b>	<b>1,024</b>	<b>534</b>	<b>490</b>
<b>Livingston</b>						
Glacial Till	0	2	0	11	11	0
Limestone	1	0	493	329	0	329
Peat	0	1	3	3	3	0
Salt	2	0	9,055	975	30	945
Sand and Gravel	15	32	1,388	1,101	815	286
<b>County Totals</b>	<b>18</b>	<b>35</b>	<b>10,938</b>	<b>2,419</b>	<b>859</b>	<b>1,560</b>
<b>Madison</b>						
Clay	0	1	10	1	1	0
Glacial Till	0	1	18	18	18	0
Limestone	5	0	452	286	0	286
Peat	0	1	70	5	5	0
Sand and Gravel	16	27	867	559	335	224
Topsoil	0	1	49	0	0	0
<b>County Totals</b>	<b>21</b>	<b>31</b>	<b>1,466</b>	<b>869</b>	<b>359</b>	<b>511</b>
<b>Monroe</b>						
Dolostone	2	0	245	245	67	178
Glacial Till	0	6	25	71	71	0
Limestone	1	0	298	298	10	288
Sand and Gravel	8	23	1,094	755	563	193
<b>County Totals</b>	<b>11</b>	<b>29</b>	<b>1,661</b>	<b>1,368</b>	<b>710</b>	<b>658</b>
<b>Montgomery</b>						
Clay	0	1	4	4	4	0
Dolostone	2	0	329	305	0	305
Limestone	1	1	207	197	7	190
Sand and Gravel	4	6	267	202	78	123
Shale	0	1	0	3	3	0
<b>County Totals</b>	<b>7</b>	<b>9</b>	<b>808</b>	<b>711</b>	<b>93</b>	<b>619</b>
<b>Multicounty</b>						
Limestone	1	0	159	159	55	104
Sand and Gravel	1	1	78	60	11	49
<b>County Totals</b>	<b>2</b>	<b>1</b>	<b>236</b>	<b>219</b>	<b>66</b>	<b>153</b>
<b>Multi-Region</b>						
Salt	1	0	13,579	9,410	0	9,410
<b>County Totals</b>	<b>1</b>	<b>0</b>	<b>13,579</b>	<b>9,410</b>	<b>0</b>	<b>9,410</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Nassau</b>						
Sand and Gravel	0	5	334	334	334	0
<b>County Totals</b>	<b>0</b>	<b>5</b>	<b>334</b>	<b>334</b>	<b>334</b>	<b>0</b>
<b>Niagara</b>						
Clay	7	14	593	453	308	145
Dolostone	1	0	679	500	0	500
Glacial Till	0	1	10	10	10	0
Limestone	2	0	637	370	0	370
Sand and Gravel	1	13	172	166	159	7
Topsoil	0	2	6	6	6	0
<b>County Totals</b>	<b>11</b>	<b>30</b>	<b>2,097</b>	<b>1,505</b>	<b>483</b>	<b>1,022</b>
<b>Oneida</b>						
Clay	0	3	20	25	25	0
Industrial Sand	0	1	125	5	5	0
Limestone	2	0	347	274	14	260
Sand and Gravel	54	90	3,255	1,655	840	814
Shale	0	2	6	6	6	0
Topsoil	0	1	3	3	3	0
<b>County Totals</b>	<b>56</b>	<b>97</b>	<b>3,756</b>	<b>1,967</b>	<b>893</b>	<b>1,074</b>
<b>Onondaga</b>						
Clay	2	2	79	71	20	51
Glacial Till	0	15	178	185	185	0
Limestone	6	2	2,076	1,689	76	1,613
Sand and Gravel	23	31	1,374	1,066	562	503
Shale	1	3	76	33	8	25
Topsoil	3	4	224	176	116	60
<b>County Totals</b>	<b>35</b>	<b>57</b>	<b>4,007</b>	<b>3,219</b>	<b>967</b>	<b>2,252</b>
<b>Ontario</b>						
Clay	1	3	61	61	48	13
Glacial Till	0	1	0	9	9	0
Limestone	2	0	667	449	0	449
Sand and Gravel	29	31	2,801	2,112	1,058	1,054
Topsoil	0	1	0	8	8	0
<b>County Totals</b>	<b>32</b>	<b>36</b>	<b>3,529</b>	<b>2,639</b>	<b>1,123</b>	<b>1,516</b>
<b>Orange</b>						
Dolostone	1	1	80	80	25	55
Glacial Till	0	1	3	2	2	0
Limestone	1	1	0	36	6	30
Sand and Gravel	22	67	1,529	1,399	1,127	272
Sandstone	1	0	97	97	36	61
Shale	7	1	389	265	91	174
Topsoil	0	1	10	10	10	0
<b>County Totals</b>	<b>32</b>	<b>72</b>	<b>2,108</b>	<b>1,889</b>	<b>1,297</b>	<b>593</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Orleans</b>						
Clay	0	4	64	60	60	0
Glacial Till	0	3	0	8	8	0
Limestone	2	0	249	186	6	180
Sand and Gravel	11	14	942	679	324	355
Sandstone	4	0	362	87	0	87
<b>County Totals</b>	<b>17</b>	<b>21</b>	<b>1,617</b>	<b>1,020</b>	<b>398</b>	<b>622</b>
<b>Oswego</b>						
Glacial Till	0	4	25	21	21	0
Industrial Sand	0	1	1	1	1	0
Sand and Gravel	92	100	5,368	3,011	1,471	1,540
Sandstone	1	0	7	3	0	3
Topsoil	4	4	186	110	84	26
<b>County Totals</b>	<b>97</b>	<b>109</b>	<b>5,587</b>	<b>3,146</b>	<b>1,578</b>	<b>1,569</b>
<b>Otsego</b>						
Bluestone	1	1	10	9	6	3
Clay	0	3	7	10	10	0
Sand and Gravel	28	36	1,083	951	504	448
Shale	1	2	10	6	1	5
Topsoil	0	1	2	0	0	0
<b>County Totals</b>	<b>30</b>	<b>43</b>	<b>1,112</b>	<b>976</b>	<b>521</b>	<b>456</b>
<b>Putnam</b>						
Limestone	1	0	56	56	0	56
Sand and Gravel	0	11	49	79	79	0
Stone	1	0	8	6	0	6
<b>County Totals</b>	<b>2</b>	<b>11</b>	<b>113</b>	<b>141</b>	<b>79</b>	<b>61</b>
<b>Rensselaer</b>						
Clay	0	4	20	18	18	0
Limestone	1	0	60	55	0	55
Sand and Gravel	39	60	2,626	2,063	596	1,468
Sandstone	4	0	351	235	0	235
Shale	1	1	168	156	34	122
<b>County Totals</b>	<b>45</b>	<b>65</b>	<b>3,224</b>	<b>2,528</b>	<b>648</b>	<b>1,880</b>
<b>Rockland</b>						
Basalt	1	1	270	235	38	197
Dolostone	1	0	184	145	0	145
Sand and Gravel	0	1	0	0	0	0
Trap Rock	1	0	153	153	0	153
<b>County Totals</b>	<b>3</b>	<b>2</b>	<b>607</b>	<b>533</b>	<b>38</b>	<b>495</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Saratoga</b>						
Clay	2	7	72	53	37	16
Dolostone	1	0	71	67	0	67
Granite	2	0	559	236	0	236
Industrial Sand	0	2	90	95	95	0
Limestone	2	0	450	366	30	336
Sand and Gravel	48	59	2,165	1,436	527	909
Shale	1	1	13	7	1	6
Topsoil	0	3	52	39	39	0
<b>County Totals</b>	<b>56</b>	<b>72</b>	<b>3,472</b>	<b>2,299</b>	<b>728</b>	<b>1,571</b>
<b>Schenectady</b>						
Clay	0	1	15	15	15	0
Peat	1	0	108	30	6	23
Sand and Gravel	6	7	342	285	96	188
Shale	1	1	26	11	6	5
<b>County Totals</b>	<b>8</b>	<b>9</b>	<b>491</b>	<b>340</b>	<b>124</b>	<b>217</b>
<b>Schoharie</b>						
Limestone	4	0	609	463	0	463
Sand and Gravel	11	13	241	207	88	119
Shale	2	5	27	24	10	15
<b>County Totals</b>	<b>17</b>	<b>18</b>	<b>877</b>	<b>694</b>	<b>98</b>	<b>597</b>
<b>Schuyler</b>						
Clay	0	1	0	20	20	0
Glacial Till	0	1	0	2	2	0
Sand and Gravel	11	21	527	416	166	250
Shale	0	1	0	1	1	0
Topsoil	0	1	2	2	2	0
<b>County Totals</b>	<b>11</b>	<b>25</b>	<b>529</b>	<b>441</b>	<b>191</b>	<b>250</b>
<b>Seneca</b>						
Clay	2	1	240	221	101	119
Limestone	1	0	515	445	0	445
Sand and Gravel	2	4	171	131	92	39
Shale	0	1	2	2	2	0
<b>County Totals</b>	<b>5</b>	<b>6</b>	<b>928</b>	<b>799</b>	<b>196</b>	<b>603</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>St. Lawrence</b>						
Clay	0	9	132	128	128	0
Dolostone	2	0	290	199	107	91
Granite	1	0	13	10	0	10
Limestone	3	0	507	259	71	188
Marble	1	0	169	58	20	38
Sand and Gravel	81	160	3,218	2,255	1,252	1,015
Sandstone	1	1	34	11	8	3
Talc	0	2	194	190	190	0
Topsoil	4	23	872	557	503	53
Zinc	1	3	1,441	881	540	341
<b>County Totals</b>	<b>94</b>	<b>198</b>	<b>6,869</b>	<b>4,546</b>	<b>2,819</b>	<b>1,740</b>
<b>Steuben</b>						
Clay	0	1	0	25	25	0
Glacial Till	0	6	11	55	55	0
Sand and Gravel	65	88	3,188	2,805	1,146	1,659
Sandstone	1	0	92	91	0	91
Topsoil	1	2	15	15	13	2
<b>County Totals</b>	<b>67</b>	<b>97</b>	<b>3,307</b>	<b>2,991</b>	<b>1,239</b>	<b>1,752</b>
<b>Suffolk</b>						
Sand and Gravel	23	57	1,968	2,018	809	1,210
<b>County Totals</b>	<b>23</b>	<b>57</b>	<b>1,968</b>	<b>2,018</b>	<b>809</b>	<b>1,210</b>
<b>Sullivan</b>						
Sand and Gravel	15	53	805	749	518	231
Sandstone	4	1	1,226	879	2	877
Shale	2	1	12	7	3	4
<b>County Totals</b>	<b>21</b>	<b>55</b>	<b>2,043</b>	<b>1,634</b>	<b>523</b>	<b>1,112</b>
<b>Tioga</b>						
Glacial Till	0	2	3	5	5	0
Sand and Gravel	21	44	2,177	1,788	980	809
Topsoil	2	1	71	30	14	16
<b>County Totals</b>	<b>23</b>	<b>47</b>	<b>2,250</b>	<b>1,823</b>	<b>999</b>	<b>824</b>
<b>Tompkins</b>						
Bluestone	2	0	20	17	0	17
Clay	0	1	4	4	4	0
Glacial Till	0	3	19	11	11	0
Limestone	1	0	126	126	110	17
Sand and Gravel	12	24	590	432	204	228
Topsoil	0	2	2	5	5	0
<b>County Totals</b>	<b>15</b>	<b>30</b>	<b>761</b>	<b>595</b>	<b>333</b>	<b>262</b>

# Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Ulster</b>						
Bluestone	3	0	18	18	0	18
Clay	2	5	84	77	58	19
Dolostone	1	0	397	11	0	11
Glacial Till	0	1	0	9	9	0
Limestone	2	1	364	334	87	247
Sand and Gravel	23	51	1,201	895	581	315
Sandstone	2	1	63	43	4	39
Shale	13	20	284	217	106	112
Topsoil	0	1	0	10	10	0
<b>County Totals</b>	<b>46</b>	<b>80</b>	<b>2,411</b>	<b>1,615</b>	<b>854</b>	<b>761</b>
<b>Warren</b>						
Garnet	1	1	250	250	55	195
Granite	1	0	183	159	0	159
Limestone	0	1	21	21	21	0
Sand and Gravel	29	26	868	504	137	367
<b>County Totals</b>	<b>31</b>	<b>28</b>	<b>1,321</b>	<b>933</b>	<b>213</b>	<b>720</b>
<b>Washington</b>						
Clay	0	2	10	10	10	0
Glacial Till	0	1	0	1	1	0
Granite	11	0	680	231	2	230
Limestone	4	0	430	213	0	213
Sand and Gravel	35	58	1,410	1,010	521	489
Sandstone	1	1	135	41	1	40
Shale	1	1	16	8	6	2
Topsoil	0	3	75	60	60	0
<b>County Totals</b>	<b>52</b>	<b>66</b>	<b>2,756</b>	<b>1,574</b>	<b>601</b>	<b>973</b>
<b>Wayne</b>						
Clay	0	1	28	28	28	0
Dolostone	2	0	648	353	18	335
Glacial Till	0	5	25	25	25	0
Limestone	1	0	79	79	0	79
Sand and Gravel	33	68	2,630	1,651	806	845
Topsoil	0	1	1	1	1	0
<b>County Totals</b>	<b>36</b>	<b>75</b>	<b>3,411</b>	<b>2,137</b>	<b>878</b>	<b>1,260</b>
<b>Westchester</b>						
Emery	0	2	15	15	15	0
Glacial Till	0	1	8	8	8	0
Sand and Gravel	0	7	22	32	32	0
Shale	0	1	4	4	4	0
<b>County Totals</b>	<b>0</b>	<b>11</b>	<b>49</b>	<b>59</b>	<b>59</b>	<b>0</b>

## Mine Commodities 2020

1/5/2021

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
<b>Wyoming</b>						
Clay	0	1	8	8	8	0
Sand and Gravel	23	32	981	541	329	212
Topsoil	0	1	15	15	15	0
<b>County Totals</b>	23	34	1,004	564	352	212
<b>Yates</b>						
Clay	1	1	35	30	21	9
Glacial Till	0	2	0	2	2	0
Salt	0	1	0	50	50	0
Sand and Gravel	11	10	377	315	177	143
<b>County Totals</b>	12	14	412	397	250	152
<b>State Totals</b>	1,796	3,147	145,331	98,746	38,604	60,181

# **Appendix G**

**Mines with Final Reclamation During 2020**

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## Mines With Final Reclamation During 2020

1/5/2021

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
<b>Broome</b>						
Sanford	Bishop, David	71071	Andresen Quarry #2	Bluestone	10/9/2020	1.0
Windsor	Bishop, James	71066	Brink Quarry #2	Bluestone	7/30/2020	1.0
Windsor	Grosvenor, Clifford	70987	Blewett Quarry	Bluestone	9/23/2020	5.0
<b>Chautauqua</b>						
Harmony	Tri-James Services Inc	90642	Neil Gravel Mine	Sand and Gravel	6/24/2020	28.0
<b>Chenango</b>						
Oxford	Lehmer, Jereme	71008	Lehmers Sand and Gravel Mine	Sand and Gravel	7/21/2020	8.3
<b>Clinton</b>						
Mooers	Champlain, Town of	50776	Emery/Gilbert Rd. Pit	Sand and Gravel	8/5/2020	13.0
<b>Columbia</b>						
Claverack	Wright, Samuel III	40673	Co Rte 11 Pit	Sand and Gravel	7/7/2020	8.7
<b>Cortland</b>						
Cortlandville	Faith G Phoenix	70350	Bar F Gravel Mine - Page Green Roa	Sand and Gravel	6/16/2020	7.0
<b>Delaware</b>						
Hancock	Johnston & Rhodes Bluestone Co	40787	Dirig #2	Bluestone	6/2/2020	3.2
Masonville	Ronald Fletcher	40942	Fletcher Bluestone Authorization	Bluestone	11/4/2020	1.0
Walton	Beerston Stone Products Inc	40822	Route 10 (Neff) gravel Bank	Sand and Gravel	12/3/2020	6.0
<b>Dutchess</b>						
Dover	Vieira Mining Corporation	30558	Dover Mine	Sand and Gravel	4/16/2020	6.8
Pine Plains	Stissing Valley Farms Inc.	30541	Stissing Valley Farms Mine	Sand and Gravel	5/21/2020	7.0
<b>Erie</b>						
Orchard Park	Orchard Park, Town of	90067	Yard Waste Reclamation Center	Sand and Gravel	10/26/2020	38.0
<b>Franklin</b>						
Chateaugay	Dowd, John H	51057	J,J & G Sand and Gravel	Sand and Gravel	11/12/2020	4.9
<b>Hamilton</b>						
Long Lake	Long Lake, Town of	50268	Cemetery Pit	Sand and Gravel	8/24/2020	1.2
<b>Herkimer</b>						
Salisbury	Manheim, Town of	60537	Yatarola Gravel Pit	Sand and Gravel	9/7/2020	3.0
Schuyler	Ferdula Top Soil Products Inc	61027	Moss Road Pit	Topsoil	11/4/2020	6.0

## Mines With Final Reclamation During 2020

1/5/2021

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
<b>Jefferson</b>						
Cape Vincent	Jefferson County Highway Dept	61065	Hall Mine at CR-4	Limestone	7/22/2020	8.1
Champion	Jefferson County Highway Dept	60006	Tillotson Pit	Sand and Gravel	8/12/2020	5.0
<b>Lewis</b>						
Osceola	Platt, John	61120	Osceola Mine	Sand and Gravel	3/19/2020	17.9
Pinckney	Deer River Ranch Inc	61057	Deer River Ranch Gravel Pit	Sand and Gravel	7/20/2020	2.0
<b>Livingston</b>						
Caledonia	Hanson Aggregates New York LLC	80099	Caledonia (Cole) S&G	Sand and Gravel	12/24/2020	106.7
Groveland	Kennedy, Morris A	80210	Kennedy Pit	Sand and Gravel	9/10/2020	30.0
Portage	Ayers, Thomas	80721	Portage Pit	Sand and Gravel	8/11/2020	20.4
<b>Ontario</b>						
Manchester	Bodi Farms Inc	80812	Schram Farms Mine	Sand and Gravel	8/12/2020	4.9
Richmond	Richmond, Town of	80520	Municipality	Sand and Gravel	12/24/2020	15.0
<b>Oswego</b>						
Hastings	Syracuse Sand & Gravel LLC	70303	Hastings North, East- NYS Route 11	Sand and Gravel	10/30/2020	10.5
Palermo	Syracuse Sand & Gravel LLC	70136	Palermo, Island Road	Sand and Gravel	7/7/2020	13.8
<b>Rensselaer</b>						
Hoosick	R M Bacon LLC	40876	Eagle Bridge - Bacon Mine	Sand and Gravel	6/12/2020	7.0
Nassau	Smith, Daniel G	40677	Teasdale Mine	Sand and Gravel	8/21/2020	7.6
<b>Saratoga</b>						
Moreau	D A Collins Construction Company	50194	Fort Edward Clay Bank	Clay	1/29/2020	2.0
Providence	Saratoga County DPW	50746	Saratoga County Gravel Pit #2	Sand and Gravel	9/10/2020	19.0
<b>St. Lawrence</b>						
Canton	Hermon, Town of	61099	Kirkpatrick Mine	Sand and Gravel	11/23/2020	0.3
Lawrence	Stauffer Farms LLC	61131	Jackobs Mine	Sand and Gravel	7/20/2020	5.5
Lisbon	Curran Logging Inc	60867	Lisbon Topsoil Mine	Topsoil	9/24/2020	63.9
Pitcairn	Pitcairn, Town of	60460	Macqueen Pit	Sand and Gravel	8/26/2020	3.0
<b>Steuben</b>						
Howard	Howard, Town of	80735	Pfitzenmaier Gravel Pit	Sand and Gravel	9/9/2020	5.7
Troupsburg	Carpenter, Dorothy	80842	Chenang Farms Gravel Pit	Sand and Gravel	10/15/2020	2.4

## Mines With Final Reclamation During 2020

1/5/2021

<b>Town</b>	<b>Company</b>	<b>MineID</b>	<b>Mine Name</b>	<b>Commodity</b>	<b>Date</b>	<b>AcresAffected</b>
<b>Suffolk</b>						
Southampton	Wainscott Properties Inc	10041	Wainscott Properties Flanders Site	Sand and Gravel	6/11/2020	3.0
<b>Sullivan</b>						
Bethel	Bethel, Town of	30086	Blum Rd. Gravel Mine	Sand and Gravel	6/26/2020	13.0
Fallsburgh	Woodbourne Lawn And Garden Inc	30317	Woodbourne Flats	Sand and Gravel	6/26/2020	45.3
<b>Warren</b>						
Queensbury	Great Escape Theme Park LLC	50619	Great Escape Sand Pit	Sand and Gravel	1/6/2020	3.3
<b>Washington</b>						
Dresden	Rozell, William	50986	Rozell Gravel & Topsoil Pit	Sand and Gravel	9/16/2020	4.0
<b>Westchester</b>						
Cortlandt	Liaskos, George	30609	Cortlandt Colonial Restaurant Site	Shale	10/14/2020	4.0



Department of  
Environmental  
Conservation

