

State of Illinois Department of Agriculture

John M. Sullivan, Director

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# **Illinois Voluntary Limestone Program PRODUCER INFORMATION**

**AUGUST 2019 Edition**

Produced by:

Illinois Department of Agriculture

Illinois Department of Transportation

Illinois Association of Aggregate Producers



The application of limestone to Illinois cropland is a time tested method of controlling soil acidity. It can help maintain optimum nutrient availability and consequently, crop production.

However, variations in limestone quality from the many sources available to farmers can make consistent and economical application difficult. This publication indexes many Illinois sources of agricultural limestone as a function of their effective neutralizing value. Calcium Carbonate Equivalents and Fineness Efficiency of the different limestones have all been figured for the producer.

The result is a correction factor at the end of each entry. Multiply this figure by the ton-per-acre of limestone recommended in your soil test for the correct application rate of each quarry's limestone. The application rate number is figured with a one and four year conversion rate.

### **Figuring ENV for one year conversion rates**

The effective neutralizing value of a limestone product is determined by multiplying the Calcium Carbonate Equivalent (CCE given in booklet) by the total fineness efficiency value (TFEV).

You must figure this from data included in the booklet. Total fineness efficiency values (TFEV's) are determined by first obtaining the weight percent (multiply by .01) of stone in the four particle size intervals. These are:

1. Greater than #8 mesh
2. #8 to #30 mesh
3. #30 to #60 mesh
4. #60 and finer mesh

Obtain the greater than #8 mesh figure by subtracting the #8 mesh percent weight from 1.00. To obtain the #8 to #30 mesh, subtract the percent passing #30 from the percent passing #8. To obtain the #30 to #60 figure, subtract the #60 from the #30. The passing #60 figure is already given in the table. On the next page is an example TFEV computation for particle size intervals. For more information, see "A Guide to selecting Agricultural Limestone Products", by Jonathan H. Goodwin. Illinois Mineral Note 73, November, 1973. Illinois State Geological Survey and, Illinois Agronomy Handbook 1995-96 Circular 1333, Cooperative Extension Service, U of I. Or, you may contact your County Extension Advisor.

## Particle Size Interval Analysis

	Passing #8	Passing #30	Passing #60
<b>Step 1</b> Jones County Cr Stone	85.9	35.2	21.4
<b>Weight Percent</b>			

<b>Step 2</b> (Multiply by .01)	.859	.352	.214
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**Step 3**  
1.00-.859 (#8 figure for #8 larger particle size) = .141

### Step 4 One Year Conversion Constants\*

\*The four bold constants are always used when figuring 1 year conversion rates.

.141 x **5** = .70

.507 x **20** = 10.14

.138 x **50** = 6.90

.214 x **100** = 21.4

39.14 = Total Fineness Efficiency Value

### Step 5

(TFEV) 39.14 x (CCE) .9363 = 36.65 (product)

### Step 6 One Year application Rate

Always divide the product of step 5 into 46.35.

46.35 ÷ 36.65 = 1.26

### Step 7

1.26 x (ton-per-acre recommendation in your soil analysis) = ton-per-acre of Jones County Cr Stone to apply.

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## Theoretical CCE is calculated using this formula

$$CCE_t = \%Ca (2.4973) + [1.1817 (\%Mg \times 3.4676)]$$

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<b>Adams</b>											
Central Stone Lorain	50012-04	2489 East 1600th St	Quincy	Common Stockpile	2.694	77.45	82.2	52.2	40.6	1.12	1.27
Central Stone Millcreek	50012-06	8514 Rock Quarry Rd	Quincy	Common Stockpile	2.084	96.67	85.1	55.6	42.3	0.86	0.98
<b>Boone</b>											
Beverly Materials	50072-16	4151 Irene Rd	Belvidere	001-006 (Conglomerate)	9.882	103.26	88.7	49.8	35.1	0.88	0.95
Consolidated Materials Inc	50072-02	1473 Flora Church Rd	Kirkland	Ledge 005 (0m-26.8m)	9.932	98.37	79.6	46.8	34.6	0.98	1.06
William Charles @ Irene	50072-01	4545 Irene Rd	Belvidere	Ledge 004 (1.8-26.5m)	9.911	103.24	93.1	56.8	40.7	0.8	0.88
<b>Carroll</b>											
Eagle Creek Quarries - Sword	50152-53	3367 Eagle Rd	Milledgeville	Ledge 007, +8.8-+2.7,	10.82	102.03	74.4	51.6	39	0.89	1.01
Savanna Quarry Inc - Lawrence (Ritchie)	50152-92	9859 Scenic Bluff Rd	Savanna	Ledge 007, 0.0-31.1m	10.272	101.25	83.9	47.6	35.4	0.92	1
Wendling Quarries Inc - Turnbaugh	50152-74	10212 Quarry Rd	Mt Carroll	Ledge 002, 3.0-18.0m	9.708	101.91	70.8	41.1	29.6	1.06	1.13
<b>Christian</b>											
Pana Limestone Quarry	50212-04	325 North 1600 East	Pana	Combined Ledges	0	95.35	83.9	40.5	26.4	1.13	1.13
<b>Clark</b>											
Casey Stone	50232-06	7600 N State Hwy 49	Casey	Full Face (7.6m)	0	90.22	78	30	18	1.48	1.36
Mid-Illinois Quarry	50232-02	9129 N 230th St	Casey	Full Face West Pit	0.274	90.46	94.6	47.9	30.8	1.05	1.07
Quality Lime Company	50232-05	14915 N Quality Lime Road	Marshall	All ledges combined	0.134	93.23	80.6	34	20.5	1.32	1.25
<b>Coles</b>											
Charleston Stone Company	50292-02	9709 N Co Rd 2000 E	Ashmore	All ledges combined, Fine	0	91.33	99.7	63.8	39	0.87	0.92
Charleston Stone Company	50292-02	9709 N Co Rd 2000 E	Ashmore	All ledges combined, Coarse	0	88.85	71.8	33	22.6	1.41	1.39

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<b>Cook</b>											
Hanson Material Service - Federal	50312-02	9101 W 47th St	McCook	Level 1 Main Plant	12.535	102.73	98.9	58.5	36	0.81	0.86
Hanson Material Service - Thornton	50312-04	620 W 183rd St	Thornton	Various Ledges	9.927	106.02	85.2	43.6	29.3	0.96	0.99
Hanson Material Service - Thornton	50312-04	322 S William St	Thornton	Various Ledges, Coarse	9.788	105.93	78.9	42.5	28.3	1	1.03
Vulcan Materials	50312-78	5500 Joliet Road	McCook	MWRD Level 2 Main Plant	12.524	98.37	69.2	35.7	25.5	1.21	1.24
Vulcan Materials - Bartlett	50312-90	2000 Vulcan Parkway	Bartlett	Level 1	12.672	103.57	80.7	46.7	33.3	0.94	1
<b>Dekalb</b>											
Vulcan Materials - Sycamore	50372-01	12502 Lloyd	Sycamore	Various Locations	9.576	105.22	78.5	43.8	31.3	0.97	1.02
<b>Douglas</b>											
Tuscola Stone Co	50412-01	1199 E US 36	Tuscola	Mixed Ledges	2.187	94.92	75.9	44.2	30.8	1.08	1.15
<b>Greene</b>											
Twin Rivers Stone-Kane	50612-02	74 W Kane Rd	Kane	22' Ledge 8	0.407	96.09	84.7	51.2	34.6	0.96	1.02
V.H. Callender - 3 miles Southwest of Glasgow (Thomas/Glasgow Quarry)	51712-01	24 Hillview Road	Winchester	Ledge 1	0.131	97.8	81.7	45.7	29.8	1.03	1.07
<b>Grundy</b>											
LafargeHolcim Aux Sable Quarry	50632-01	2998 County Road 7000 North	Morris	0-38.1m	2.282	99.29	92.9	50.2	35.5	0.9	0.96
<b>Hancock</b>											
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	Common Stockpile	1.321	71.4	81.6	51.5	38.2	1.25	1.39
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	35.1 - 48.8m Ldg#4	0.219	93.41	97.9	62.8	42.2	0.83	0.92
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	18.3-30.5m, Ledge 2	1.105	69.96	99.1	73.3	51.7	0.98	1.13
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	63.4-75.6m, Ledge 7	3.266	95.67	93.1	60.1	48.4	0.79	0.93
<b>Hardin</b>											
Hastie Mining	50692-04	RR1 Box 55	Cave-in-Rock	Various	0.738	85.39	74.7	37.1	24.2	1.38	1.37
LafargeHolcim HC3	50692-09	RR1, Box 128	Golconda	Various	0.707	93.25	72.9	34.3	20.5	1.36	1.3

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<b>Henry</b>											
RiverStone Group Inc - Cleveland Quarry	50732-12	1069 North Broadway St	Colona	Various Ledges	9.497	101.93	93.8	28.5	18.7	1.23	1.13
<b>Iroquois</b>											
VCNA Prairie Materials - Ashkum Yard 99/East of Scale House	50752-01	2744 N 200 E Rd	Ashkum	Combined Ledge A & Ledge B/0.0-28.0m	1.586	91.91	85.5	31.4	19.1	1.37	1.27
<b>Jackson</b>											
Kinkaid Stone Co	50772-02	4287 Kinkaid Stone Road	Ava	Various Fine Sample	0.265	90.56	97	53.3	31.7	1	1.02
Kinkaid Stone Co	50772-02	4287 Kinkaid Stone Road	Ava	Various Coarse Sample	0.2	89.58	75.2	35.2	22.4	1.36	1.32
<b>Jersey</b>											
Calhoun Quarry Inc - East	50832-03	25840 Eldred Rd	Fieldon	Various Ledges	1.088	98.07	97.6	56.4	37.4	0.86	0.91
<b>Jo Daviess</b>											
Civil Materials - Eustice	50852-61	1307 W Longhollow Rd	Elizabeth	2.5-23.5m, Upper Ledge, Ledge 018	12.524	101.63	80	51.8	37.5	0.89	0.98
Civil Materials - Eustice, Elizabeth	50852-61	1307 W Longhollow Rd	Elizabeth	Ledge 008, 21.3-33.5m, bottom ledge (Ultra Fine)	12.829	102.81	99.9	99.9	98.9	0.45	0.66
Civil Materials - Schultz	50852-66	2415 Schapille Road	Schapville	Ledge 001, 0.0-15.2m	12.589	104.41	94.3	55.7	40.7	0.79	0.87
Civil Materials - Virtue	50852-06	1450 N Ferry Landing Rd	Galena	Ledge 002, 18.3-30.5m West Face	4.881	96.83	77.8	42.9	31.3	1.06	1.13
Civil Materials - Youngbluth	50852-67	10216 Chelsea Rd	Stockton	Ledge 001, 0.0-15.2m, East Face	12.476	104.86	82.6	48.8	35.6	0.89	0.97
Fischer Excavating Inc - Ehler	50852-93	8022 Stagecoach Trail	Galena	Ledge 002, +6.1-15.2m	11.686	103.78	91.6	71.6	55.3	0.66	0.79

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<b>Jo Daviess cont.</b>											
Fischer Excavating Inc - Millerschone	50852-20	7081 East Center Rd	Stockton	Ledge 002, 0.0-18.3m	10.07	102.76	85.6	52.5	37.7	0.86	0.94
Louie's Aggregate Co - Hahn, Galena	50852-90	4297 W Guilford Rd	Galena	Ledge 002, 0.0-13.7m	10.971	99.62	82.8	37.7	25.3	1.12	1.12
<b>Johnson</b>											
Southern Illinois Stone Co - Buncombe Quarry	50872-03	4800 IL37	Buncombe	Various Ledges	0.665	88.81	73.7	31.9	20.8	1.45	1.39
<b>Kane</b>											
Lafarge Conco	50892-01	105 Conco St	North Aurora	Level 2 Bach-Fine	4.933	101.83	99.6	80.9	56.7	0.63	0.74
LafargeHolcim - Fox River	50892-02	1310 S IL Route 31	South Elgin	Level 1 Bench and Breast	11.775	102.92	68.1	68.9	26.7	0.91	0.89
LafargeHolcim Conco	50892-01	105 Conco St	North Aurora	Level 2 Breast	6.608	102.09	76.4	51.7	41.2	0.86	1
<b>Kankakee</b>											
VCNA Prairie Materials - Northeast Side of Plant by the Wash Plant	50912-06	8715 S. Rt 45/52	Manteno	Ledge C/39.3-57.6M, Regular Grinds	11.196	94.19	81.3	35.3	21.9	1.27	1.22
Vulcan Materials - East Side of Plant Under Building	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1, 0.0-39.0m, Fine Grinds	8.753	95.16	79.9	40.2	29.6	1.11	1.16
Vulcan Materials - West Side of Property Across 7000 S Rd	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1, 0.0-39.0, Coarse Grinds	8.908	97.65	75.2	42.2	32.8	1.05	1.14
Vulcan Materials - West Side of Property Across 7000 S Rd	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1, 0.0-39.0, Rescreened Grinds	9.387	97.18	74.8	42.1	33.1	1.05	1.15
<b>Kendall</b>											
Central Limestone	50932-01	16805 Quarry Road	Morris	0-130' (0-39.6M) Various Locations	8.49	97.92	96.7	59.1	40.7	0.82	0.9

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<b>LaSalle</b>											
LafargeHolcim - Utica	50992-02	North 27th Rd	Utica	Various Locations (11.0M-27.4M)	9.091	82.4	83.7	52.9	43.2	1.02	1.18
RiverStone Group Inc - Troy Grove	50992-01	539 Rt 52	Troy Grove	Various Ledges	11.093	98.88	87.1	43.1	31.4	1	1.05
RiverStone Group Inc - Vermilion	50992-04	2273 North IL 178	Oglesby	Various Ledges	4.101	96.82	89.7	49.4	37.3	0.92	1.01
Western Aggregates	50992-05	764 East US Route 52	Utica	Various	11.239	91.84	81.2	51.5	42	0.94	1.09
<b>Lee</b>											
Civil Materials Palmyra	51032-73	217 Palmyra Rd	Dixon	Various (Normal Lime)	9.806	104.55	98.2	95.1	92.7	0.47	0.67
Civil Materials Palmyra	51032-73	217 Palmyra Rd	Dixon	006 (VFR Lime)	11.031	104.51	99.4	98.4	96.9	0.45	0.65
Renner Quarries - Amboy (Robbins)	51032-04	902 Robbins Rd	Amboy	Ledge 004	9.532	102.69	77.8	37.3	26.3	1.1	1.12
Renner Quarries Dixon	51032-76	870 Renner Rd	Dixon	Ledge 008 (Upper)	11.273	104.15	91	62.3	43.7	0.75	0.85
Renner Quarries Dixon	51032-76	870 Renner Rd	Dixon	Ledge 10 (Lower)	10.703	99	79.6	42.6	32.4	1.02	1.09
<b>Livingston</b>											
Valley View Industries - McDowell Quarry	51052-19	18380 E. 1100 North Rd.	Fairbury	4.0m Face, Blended Lime	0.337	93.85	93.6	54	37.3	0.92	0.99
Valley View Industries - McDowell Quarry	51052-19	18380 E. 1100 North Rd.	Fairbury	4.0m Face, Milled Lime	0.218	94.6	98.5	65.8	45.5	0.79	0.88
VCNA Prairie Materials - Oroya Quarry, Prairie Yard 88	51052-09	11225 N 1600 E Rd	Ocoya	6.7 M Face	0.358	91.72	98.2	58.7	37.1	0.9	0.96
<b>Madison</b>											
Bluff City Minerals - Hi-Cal Pelleted Lime - Alton	51192-04	4007 College Ave	Alton	Ledges 1 & 2, 2R17, 2M32	1.134	91.4	95.8	87	73.8	0.62	0.81
Bluff City Minerals Alton	51192-02	4007 College Ave	Alton	Ledges 1 & 2, 2R17, 2M32	0.783	88.29	77	40.6	29.4	1.21	1.27
Twin Rivers Stone- Godfrey	51192-01	9434 Godfrey Rd	Godfrey	Ledge 1-5	0.6221	91.31	86.9	56.1	41.5	0.91	1.03



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<b>McDonough</b>											
Central Stone - CS53	51092-03	5533 E 400 St	Colchester	L1 & L2, Aglime 002FA00	1.013	73.8	95	67.7	46.7	1	1.13
<b>Menard</b>											
Hanson Material Service Yard 17	51292-02	25142 Quarry Avenue	Athens	Combined Ledges	0.637	87.46	88.8	47	30.2	1.12	1.14
<b>Monroe</b>											
Columbia Quarry #7	51332-04	5440 Quarry Rd	Waterloo	24.4M ledge 1-3	4.896	97.03	94.5	61	44.9	0.8	0.9
<b>Montgomery</b>											
Hanson Material Service Yard 12	51352-01	22283 Taylorville Road	Nokomis	Combined Ledges	0	96.63	93.9	45.8	27.4	1.03	1.02
Hanson Material Service Yard 58	51352-04	22283 Taylorville Rd	Nokomis	Combined Ledges	0	94.73	100	99.8	94.7	0.5	0.71
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges, Fine Grind Ag Lime	0	95.99	98.8	46.5	25.7	1.04	1
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges, Coarse Ag Lime	0	96.54	83.7	37.4	20.1	1.24	1.15
<b>Ogle</b>											
Eagle Creek Quarries - Galena Trail	51412-18	2010 S Galena Trail	Polo	Ledge 003	10.503	98.57	86.3	73.5	50.7	0.72	0.84
Fischer Excavating Inc - Monroe Center	51412-00	6511 N Limestone Rd	Monroe Center	Ledge 001	11.443	101.91	77.1	42.2	28.7	1.04	1.08
Macklin Inc - Rochelle	51412-68	6089 S Dement Rd	Rochelle	Ledge 007	8.982	97.26	80.3	45.1	33.2	1.01	1.09
Martin & Company - Lime Kiln	51412-47	1720 N Limekiln	Oregon	Ledge 004	10.627	100.71	72.6	40.3	28.2	1.09	1.14
Rogers Ready Mix - Byron	51412-32	8503 N Barker Rd	Byron	Ledge 006	10.285	97.27	80	43.3	30.7	1.05	1.1
Steve Benesh and Sons Quarry - Oregon	51412-72	3923 N River Rd	Oregon	Ledge 004	8.942	94.99	98	71.1	54.9	0.71	0.85
Wagner Aggregates - FairDale	51412-92	20855 E IL Rt 72	Fairdale	Ledges 10 & 11	10.336	104.71	80.6	48.3	31.9	0.93	0.98

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<b>Pike</b>											
Central Stone - Fessler	51492-41	312th Ave & Township Rd 92	Barry	Common Stockpile	0.04	87.89	93.5	58.6	42.7	0.91	1.02
Central Stone - Kinderhook	51492-05	218th Street	Kinderhook	Common Stockpile	1.659	79.87	99	71.2	47.7	0.89	1.01
Central Stone Co	51492-04	26176 487th Street	Pittsfield	Ledge 4	2.041	92.42	99.2	69.5	45.1	0.79	0.88
Central Stone Co	51492-04	26176 487th Street	Pittsfield	Ledge 3	1.503	97.51	98.3	60.3	39.4	0.83	0.89
Central Stone Co	51492-04	26176 487th Street	Pittsfield	Ledge 2	1.659	83.47	98.7	59.2	39.6	0.97	1.05
Central Stone Co	51492-04	26176 487th Street	Pittsfield	Ledge 5	0.487	96.71	99.5	75.7	49.9	0.71	0.81
V.H. Callender - New Hartford Quarry	51492-01	31099 Dutch Creek Rd	Rockport	Ledge 1	0.164	93.28	86.7	51.5	34.4	0.98	1.04
V.H. Callender - Perry/Junction Quarry	51492-42	37742 412 Street	Chambersburg	Ledge 1-4	0.464	84.47	82.6	47.4	33.9	1.13	1.21
V.H. Callender - Valley City Quarry	51492-02	310810 Quarry Rd	Grigsville	Ledge 3	1.259	98.08	85.8	51.7	37.8	0.9	0.99
<b>Randolph</b>											
Mississippi Lime - Prairie Du Rocher	51572-04	7899 Bluff Rd	Prairie Du Rocher	8.5M Ledge 1	0.06	99.63	85.4	42.9	24.8	1.08	1.06
<b>Rock Island</b>											
Mill Creek Mining	51612-16	5600 Knoxville Rd	Milan	Ledge 7	11.107	104.68	66.1	28	17.9	1.37	1.28
RiverStone Group Inc - Allied Stone	51612-31	601 US Rt 67 North	Milan	Various Ledges, Limestone	3.421	91	67.3	36.1	27	1.29	1.35
RiverStone Group Inc - Allied Stone	51612-31	601 US Rt 67 North	Milan	Various Ledges, Dolomite	11.029	103.9	79	27	10.8	1.47	1.21
RiverStone Group Inc - Midway Quarry	51612-23	2721 248th Street North	Hillside	Various Ledges	10.272	100.21	87.5	40.9	23.4	1.1	1.06
<b>Shelby</b>											
Brush Creek Quarry	51732-01	2371 County Hwy 6	Mode	Piekish Pit	0	27.46	61.8	33.8	24.4	4.61	4.72

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<b>St. Clair</b>											
Casper Stolle Quarry - Quarry Lot	51632-05	2901 Stolle Rd	Dupo	L-12 25ft	2.24	97.27	80.5	49.9	37.5	0.94	1.04
Columbia Quarry #9	51632-09	100 Industrial Dr	Dupo	9.9M ledge 1-5	1.225	94.02	80.3	37.3	25.6	1.2	1.2
Falling Springs Quarry - Quarry Lot	51632-03	2901 Stolle Rd	Dupo	7.6M L-6	0.144	101.61	86.7	42.4	27.1	1.03	1.03
<b>Stephenson</b>											
Civil Materials - Dwyer	51772-28	1708 S Hollywood Rd	Freeport	Ledge 007, 30.5-44.2m, (Ultra Fine)	11.097	101.18	99.9	99.6	97.4	0.46	0.67
Civil Materials - Dwyer	51772-28	1708 S Hollywood Rd	Freeport	Ledge 009, 4.6-30.5m	11.599	104.57	63.8	35.6	24.8	1.18	1.2
Civil Materials - Monte	51772-27	475 St James Rd	Orangeville	Ledge 001, 0.0-15.2m	11.812	104.37	95.1	62.9	44.9	0.73	0.83
Civil Materials - Offenheiser (Goldmine)	51772-83	14180 Goldmine Rd	Pearl City	Ledge 001, 0.0-15.2m	11.36	101.02	93.9	49.7	33.8	0.9	0.95
Doc's Excavating Inc - Tessendorf	51772-04	6285 IL Rt 73	North Lena	Ledge 002, 15.2-21.9m	11.713	100.72	78.7	46.5	31.6	0.99	1.04
Doc's Excavating Inc - Tessendorf	51772-04	6285 IL RT 73	North Lena	Ledge 007, +3.0-15.2m, West Face	11.32	103.39	75.7	44.9	32.2	0.98	1.05
Fischer Excavating Inc - Winnesheik	51772-51	1570 East Winnesheik Rd	Freeport	Ledge 001, 0.0-9.1m	11.395	101.31	80.6	47.3	33.5	0.95	1.02
<b>Union</b>											
Anna Quarry Inc	51812-02	1000 Quarry Road	Anna	95.7-110.8m	1.75	95.6	85	42.2	27.6	1.1	1.11
Shawnee Stone at Jonesboro	51812-03	1275 Jonesboro Quarry Road	Anna	Various Ledges	0.217	100.91	98.2	80.7	58	0.63	0.75
<b>Vermilion</b>											
Hanson Material Service - Fairmount Quarry 2 miles West of Fairmount	51832-01	3706 Catlin-Homer Rd	Fairmount	Northcut 20 foot ledge	0.08	96.99	98.1	52.4	31.7	0.93	0.95
<b>Warren</b>											
RiverStone Group Inc - Valley Quarry	51872-01	772 175th Street	Augustine	60'-70' Ledge, Aglime 002FA00	1.714	91.38	88.4	60.9	43.6	0.87	0.98

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<b>Whiteside</b>											
Alliance Materials - Kayslorner	51952-86	25100 Rock Falls Rd	Sterling	Ledge 006 (Kays)	10.49	104.9	77.4	41.7	28.5	1.02	1.05
Alliance Materials - Siers	51952-86	28601 Pilgrim Rd	Sterling	Ledge 006	10.658	104.5	57.5	32.2	22.2	1.29	1.29
Wendling Quarries Inc at Garden Plain	51952-64	Garden Plain Road	Garden Plain	Full Face	10.78	102.82	73	46	36.7	0.94	1.06
<b>Will</b>											
LafargeHolcim - Rockdale	51972-15	2509 Mound Rd	Rockdale	All Ledges	9.596	103.96	95.1	65.4	46.5	0.72	0.82
Vulcan Materials - Laraway	51972-19	595 W Laraway Rd	Joliet	All Ledges	8.616	95.63	75.2	37.7	25.8	1.2	1.21
Vulcan Materials - Bolingbrook	51972-10	351 Royce Rd	Bolingbrook	North Side	9.111	96.37	70	36.2	25.6	1.23	1.25
Vulcan Materials - Plainfield	51972-09	22933 W Hassert Blvd	Plainfield	All Ledges	3.461	100.47	74.1	42.5	30.8	1.04	1.11
<b>Winnebago</b>											
3 S Construction	52012-02	11184 N Main	Rockton	005 Full Face (Gray)	1.654	98.68	88.9	52.5	39.3	0.87	0.97
3 S Construction	52012-02	11184 N Main	Rockton	001 Capping agg (Yellow)	10.36	101.82	82.1	49.8	33.3	0.93	0.99
Northern Illinois Service at Bedrock	52012-73	6799 Swanson Rd	Roscoe	013	10.149	103.29	76.7	45.9	34.4	0.95	1.03
Northern Illinois Service at Blacks	52012-80	11200 N Main Rd	Rockton	002	9.813	103.13	84.7	54.5	37.4	0.85	0.93
Rogers at Mulford	52012-31	5510 S Mulford Rd	Rockford	Ledge 002 (12.2-26.5m)	10.5	101.99	63.4	39.7	27.1	1.14	1.18
<b>Iowa</b>											
RiverStone Group Inc - LeClaire Quarry	52202-10	400 Territorial Rd	LeClaire	Various Ledges HI-G	11.3	106.87	100	99.8	98.4	0.44	0.63
RiverStone Group Inc - LeClaire Quarry	52202-10	400 Territorial Rd	LeClaire	Various Ledges	11.405	106.63	86.5	48.8	29.9	0.91	0.93
RiverStone Group Inc - McCausland Quarry	52202-16	18965 300th St	Long Grove	Various Ledges	10.15	103.32	75.5	40.5	30.4	1.03	1.09
RiverStone Group Inc - New Liberty Quarry	52202-91	2700 New Liberty Rd	Stockton	Various Ledges	10.377	99.88	69.5	36.5	28.8	1.14	1.21

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<b>Iowa cont.</b>											
Wendling Quarries Inc at Shaffton	55202-06	2911 Hwy 67 (2.0 mi SW, Clinton-S11-T80NR5E	Camanche	Beds 20-23	9.994	104.39	70.6	37.1	26.5	1.11	1.14
Wendling Quarries Inc at Shaffton	52202-06	2911 Hwy 67 (2.0 mi SW, Clinton-S11-T80NR5E)	Camanche	Various Ledges	9.414	102.89	76.5	44.3	32.5	0.98	1.05
<b>Indiana</b>											
Bloomington Crushed Stone	52102-07	1100 North Oard Rd	Bloomington	Various	0	97.82	99.9	99.1	58.7	0.6	0.69
CalCar Quarries, Inc	52102-10	860 East US Hwy 150	Paoli	Ledges 1-16	1.29	98.18	92.5	53.1	33.8	0.91	0.96
Cave Quarries Inc	77000-97	1156 N 425 W	Paoli	Ledges 4-10	0.664	94.73	96.6	42.9	24.6	1.1	1.05
Hanson Material Service - The Andersons Inc.	52102-37	101 Agrico Lane	Seymour	Various Ledges	12.145	107.4	99.8	99.3	98.2	0.44	0.63
Indian Creek Quarry, LLC	52102-38	12587 Mount Olive Rd	Williams	Ledges 601-609	1.244	93.67	93.2	46.5	29.7	1.04	1.05
Lincoln Park Stone - Putnamville Quarry	52102-30	995 W US40	Putnamville	Ledges 1-6	0.813	94.72	78.1	34.7	22.7	1.27	1.24
Martin Marietta Aggregates - Cloverdale Quarry 2 miles North of Cloverdale	52102-33	2010 East County Road 800 South	Cloverdale	58' Face West Pit, South Face, Ledges 101-402	0	92.34	92.6	52.5	34.1	0.97	1.02
Mulzer Crushed Stone - Cape Sandy	52102-18	19925 Alton Fredonia Rd	Leavenworth	Various	2.523	92.51	97.4	59.6	38.9	0.88	0.95
Mulzer Crushed Stone - Temple Quarry	52102-11	2785 E Temple Rd	English	Various Ledges	2.707	97.24	90.2	45.6	28.9	1.02	1.03
Mulzer Crushed Stone - Tower Quarry	52102-14	7172 S Tower Rd	Leavenworth	Various Ledges	2.796	96.16	92.5	53.7	35.7	0.91	0.97
Mulzer Crushed Stone Charlestown Quarry - Evansville Materials (Mulzer Cr. St)	52100-49	900 NW Riverside Drive	Evansville	Various	9.363	98.15	81.6	45.7	33.2	0.99	1.06

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<b>Indiana cont.</b>											
Rogers Group Newton County Stone - Straight South of the Entry Gate (East Pile)	52102-01	235 E Hwy US 24	Kentland	Pit 8, Ledges 1-2, Levels BC(50'-150'), Coarse Grinds	12.869	106.55	93.5	46.5	29.2	0.91	0.92
Rogers Group Newton County Stone - Straight South of the Entry Gate (West Pile)	52102-01	235 E Hwy US 24	Kentland	Pit 8, Ledges 1-2, Levels BC(50'-150')	13.023	105.82	94	57	39.2	0.78	0.86
Rogers Group-Mitchell Crushed Stone	52102-04	3020 SR6- West	Mitchell	Ledge 1 (Liff 102)	0.263	96.92	82	44.4	29.1	1.06	1.09
US Aggregates - The Andersons Inc	52102-37	101 Agrico Lane	Seymour	Ledges 1 & 2	2.833	95.09	99.1	94.1	75.4	0.57	0.74
Whitesville Mill Service	52103-22	4537 S Nucor Rd, Box 314	Crawfordsville	Produced from Steel Slag	4.571	60.86	97.2	54.5	33.4	1.45	1.5
<b>Missouri</b>											
APAC Brickey's Quarry	52302-70	13588 Brickey's Rd	Bloomsdale	Various Ledges	0.117	100.46	95.4	62.1	44.6	0.77	0.86
Bussen Quarries Inc - Bussen J.B. Yard	52302-07	5000 Bussen Rd	St. Louis	Ledge 5-21 150'	1.35	91.66	90.3	47.3	31.2	1.05	1.08
Bussen Quarries Inc at Antire, Antire Quarry Yard	52302-65	6800 Bussen Antire Rd	Eureka	Ledge 11-27, 200' Stockpile Ultra Fine Lime	6.108	93.82	100	100	99.2	0.5	0.72
Central Stone - Huntington	52302-04	46445 Sweetbay Lane	Huntington	Common Stockpile	0.01	93.66	98.4	73.6	49.8	0.74	0.85
Central Stone - Taylor	52302-46	7040 C Rd 344	Taylor	Common Stockpile	0.032	89.63	96.7	53.5	34.3	0.98	1.03
Central Stone Co - Argo/Aglime	52302-53	14200 Lewis & Clark Blvd	Florissant	Various	1.892	91.24	99.9	99.7	98.1	0.51	0.74
Heartland Materials	77000-99	1965 County Road 601	Jackson	Multiple	0.929	97.87	99.1	74.5	51.6	0.7	0.8
LafargeHolcim - Highway 51	52302-41	521 Quarry Lane	Perryville	19.5M Ledge 2+3 30.0M	1.255	95.18	77.6	28.8	17.4	1.43	1.31
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	Underground, Code L	0.06	107.56	99.6	94.8	79.6	0.49	0.65

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<b>Missouri cont.</b>											
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	30.0M underground, Code H	0.04	125.6	100	96.6	78.6	0.42	0.55
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	30.0M underground, R- 1 soil conditioner	0	100.62	100	75.6	30.9	0.79	0.77
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	30.0M underground, R- 2 soil conditioner	0	101.07	100	100	98.6	0.46	0.67
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	30.0M underground, calcium carbonate	0	100.34	100	90.7	81.8	0.52	0.71
Mississippi Lime	52302-08	16147 US Highway 61	Ste. Genevieve	30.0M Underground, Lime Hydrated	0.001	133.29	100	78.3	55.2	0.49	0.58
Simpson Materials /Simpson Barnhart Quarry - Imperial	52302-51	860 Sulphur Springs Rd	Imperial	Ledge 1-5 Kimswick	0	96.25	98.2	66.2	48.3	0.76	0.87
Tower Rock Stone	52302-39	19829 Lower French Rd	Ste. Genevieve	Various Ledges	0.218	99.26	95.9	62.8	39.6	0.8	0.87
<b>Wisconsin</b>											
Lannon Stone Products	52402-10	N51W23563 Lisbon Rd	Sussex	Bench 2	9.269	94.95	99.7	95.9	84.8	0.54	0.73
Little Limestone	52402-86	8609 E Little Ln	Clinton	12.2-18.3m	9.984	97.78	99.1	86.3	71.8	0.58	0.75
Payne & Dolan - Franklkin Aggregates	52402-99	6211 Rawson Ave	Franklin	Combined Ledges	9.392	92.08	73.5	36.8	26.2	1.25	1.28
Payne & Dolan - Racine Quarry	52402-01	1501 3 Mile Rd	Racine	Lower Mayville	8.847	92.83	72.1	36.7	25.5	1.26	1.28
Payne & Dolan - Waukesha Quarry	52402-05	N250 W233 Hwy F	Waukesha	Combined Ledges	9.946	104.87	94.7	58.4	46.5	0.74	0.85