

State of Illinois

Department of Agriculture

Raymond Poe, Director



Illinois Voluntary Limestone Program **PRODUCER INFORMATION**

AUGUST 2016 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
Step 1 Jones County Cr Stone	85.9	35.2	21.4
Weight Percent			

Step 2 (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.

Theoretical CCE is calculated using this formula

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

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Adams											
Central Stone-Lorraine	50012-04	2489 East 1600th St	Lorraine	Common stockpile	2.15	81.11	84.4	52.4	39.9	1.07	1.2
Central Stone-Marblehead	50012-33	743 East 753rd Lane	Quincy	Common Stockpile	0.38	97.74	82.2	49.6	34.9	0.95	1.03
Central Stone-Millcreek	50012-06	8514 Rock Quarry Rd	Quincy	Common stockpile	1.68	89.51	82.1	55.2	44.9	0.92	1.08
Boone											
Beverly Materials	50072-16	4151 Irene Rd	Belvidere	004 16.2m-23.44m	11.04	99.41	59.8	21.8	10.5	1.81	1.51
Consolidated Materials Inc.	50072-02	1473 Flora Church Rd	Kirkland	Ledge 005 (0m-26.8m)	18.94	99.33	83	47.6	34.4	0.95	1.03
William Charles Construction @ Irene	50072-01	4545 Irene Rd	Belvidere	Ledge 003 (12.2-26.5m)	10.61	98.76	88.3	53.6	40.5	0.86	0.96
Carroll											
Eagle Creek Quarries-Sword	50152-53	3367 Eagle Rd	Milledgeville	+2.7 - 11.0 M	10.74	98.63	68.5	44.7	34	1.03	1.14
Fischer Excavating Inc-Mt Carroll	50152-16	15653 Benton St	Mt Carroll	+7.7 - 15.2 M	11.29	99.23	82.1	49.3	35.5	0.94	1.02
Fischer Excavating Inc-Sturtz	50152-93	15124 Route 73	Lanark	+1.0-17.6m	5.34	84.5	83.3	49.9	39	1.06	1.18
Savanna Quarry Inc-Lawrence (Ritchie)	50152-92	9859 Scenic Bluff Rd	Savana	0.0 - 31.1m	7.14	98.68	73.2	37.9	27	1.15	1.18
Wendling Quarries Inc-Turnbaugh	50152-74	10212 Quarry Rd	Mt Carroll	3.1 - 18.0 m	9.49	100.98	64.5	33	23.1	1.27	1.27
Christian											
Hanson Material Service Yard 12	51352-01	22283 Taylorville Rd	Nokomis	Combined Ledges	0.33	92.42	95.7	46.4	30.6	1.03	1.05

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Christian (continued)											
Hanson Material Service Yard 58@Nokomis Mineral Fliier Plant	51352-04	22283 Taylorville Rd	Nokomis	Combined Ledges	0.4	92.15	100	99.6	94.8	0.52	0.73
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges/Fine Grind Ag Lime	0.48	92.72	74.4	25.7	16	1.57	1.41
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges/Coarse Ag Lime	0.14	94.77	72.4	20.2	7.6	1.9	1.49
Pana Limestone	50212-04	325 North 1600 East	Pana	Combined Ledges	0.36	89.5	89.4	45.2	29.3	1.11	1.13
Clark											
Casey Stone	50232-06	7600 North State Hwy 49	Casey	Full Face S#11	0.49	82.63	76.1	33.3	22.4	1.49	1.45
Mid-Illinois Quarry	50232-02	9129 North 230th St	Casey	East Pit Full Face	0.44	87.34	98.3	43.9	27.9	1.13	1.13
Quality Lime Company	50232-05	14915 North Quality Lime Rd	Marshall	All Ledges Combined	0.64	83.78	88	42	27.9	1.24	1.25
Coles											
Charleston Stone Company	50292-02	9709 North County Rd 2000 East	Ashmore	Regular Production: All Ledges Combined	0.33	81.55	89	48.5	34.8	1.13	1.21

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Coles (continued)											
Charleston Stone Company	50292-02	9709 North County Rd 2000 East	Ashmore	Fine Lime	0.32	87.48	99.8	70.5	45.2	0.83	0.92
Cook											
Hanson Material Service-McCook	50312-02	9101 West 47th St	McCook	72.2-98.7M Levels 8 & 9; west part of quarry	9.25	85.63	99.7	62.1	41.1	0.92	1
Hanson Material Service-Thornton Quarry	50312-04	322 South Williams St	Thorton	Main Quarry Level 1 & 2	10.48	96.6	85.2	39.3	27	1.11	1.12
Hanson Material Service-Thornton Quarry	50312-04	322 South Williams St	Thorton	Main Quarry Level 1 & 2	9.64	95.5	91.1	44.4	31.4	1.02	1.06
Vulcan Materials-Main Plant	50312-78	5500 West Joliet Rd	McCook	MWRD Various Ledges	10.28	94.1	78.4	40.7	29.4	1.13	1.18
Dekalb											
Vulcan Materials-Dekalb	50372-02	15622 Barber Green Rd	Sycamore	Various Ledges	9.51	100.18	92.6	53.6	38.7	0.85	0.93
Vulcan Materials-Sycamore	50372-01	12502 Lloyd Rd	Sycamore	Various Ledges	8.1	98.42	78.3	41.5	31.6	1.05	1.12
Douglas											
Tuscola Stone Company	50412-01	1199 E US 36	Tuscola	Mixed Ledges	8.42	91.83	76.5	42.5	30.9	1.13	1.2
Greene											
Kimaterials D.B.A. Kane Quarry	50612-02	RR 1 Old Kane Rd	Kane	Various	0.92	92.14	71	39.7	27.6	1.22	1.26

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Greene (continued)											
V.H.Callender-Thomas/Glasgow Quarry	51712-01	24 Hillview Rd	Winchester	Ledge 1	1.46	93.93	81.3	46.9	33.7	1.03	1.1
Grundy											
LaFarge NA (Aux Sable)	50632-01	2998 County Rd 7000 North	Morris	0-75' Face coarse Lime	4.05	97.25	86	57.1	41.7	0.85	0.96
Hancock											
Gray Quarries	50672-03	700-798 South 2nd St	Hamilton	Common stockpile	2.43	83.9	76.7	46.7	36.1	1.14	1.26
Gray Quarries	50672-03	700-798 South 2nd St	Hamilton	3.7 - 18.3m ldg#1b	2.08	69.17	94.9	57.2	40.5	1.18	1.3
Gray Quarries	50672-03	700-798 South 2nd St	Hamilton	48.8m - 54.9m ldg#5	0.97	92.36	98.9	62.8	42.2	0.84	0.92
Gray Quarries	50672-03	700-798 South 2nd St	Hamilton	63.4m - 75.6m ldg#7	3.09	96	76.2	40.7	32.5	1.08	1.17
R.L. O'Neal Quarries	50672-04	819 North County Rd 3050 East	Plymouth	0m-12.2m ldg#1	1.45	71.1	89	54.3	36.6	1.23	1.33
R.L. O'Neal Quarries	50672-04	819 North County Rd 3050 East	Plymouth	13.7m-44.8m ldg#2 & 3	2.55	84.16	73.1	41.9	32.4	1.13	1.26
R.L. O'Neal Quarries	50672-04	819 North County Rd 3050 East	Plymouth	44.8m - 52.4m ldg#4	2.5	93.11	85.5	60.2	48.5	0.83	0.98
Hardin											
Hastie Mining	50692-04	RR 1 Box 55	Cave in the Roack	Various	1.24	79.7	79.7	43.9	29.4	1.3	1.34
Lafarge Holcim CIR	50692-12	RR 1 Box 267 Fords Ferry Rd	Cave in the Roack	Ledge F1 (006) 31.4-41.8M	0.84	90.38	65.7	31.9	21.6	1.46	1.43

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Henderson											
Cessford Construction - Biggsville Quarry	50712-03	RR 1 Box 32	Biggsville	Keokuk & Cedar Fork AgLime 002FA00	2.86	89.12	79.9	54.9	43.2	0.94	1.1
Henry											
Riverstone Group Inc.- Cleveland (MC31)	50732-12	1069 North BRdway St	Colona	Various Ledges West Pile	7.14	104.42	85.6	21.4	4.2	1.68	1.23
Riverstone Group Inc.- Cleveland (MC31)	50732-12	1069 North BRdway St	Colona	Various Ledges East Pile	9.35	100.11	98.5	50.4	34.2	0.89	0.93
Iroquois											
Prairie Ashkum	50752-01	2744 North 200 East Rd	Ashkum	Ledge A/0.0- 15.8M	2.78	88.58	86.9	42.9	31.2	1.13	1.18
Jackson											
Kinkaid Stone	50772-02	4287 Kinkaid Stone Rd	Ava	9.1-13.8m Course ag lime	0.47	88.4	68.3	31.2	19.8	1.52	1.45
Kinkaid Stone	50772-02	4287 Kinkaid Stone Rd	Ava	9.1-13.8m fine ag lime	0.61	95.83	99.7	69.3	45	0.76	0.85
Jersey											
Calhoun Quarry Inc	50832-03	25840 Eldred Rd	Fieldon	Various Ledges	1.2	94.94	99.5	61.3	41.1	0.83	0.9
JoDaviess											
Conmat Inc-Eustice	50852-61	1307 West Longhollow Rd	Elizabeth	2.5 - 23.5m upper ledge	8.29	100.1	89.4	60.4	49.2	0.76	0.9

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JoDavies (continued)											
Conmat Inc-Mississippi Limeirtue	50852-06	1450 North Ferry Landing Rd	Galena	18.3 - 30.5m	3.71	94.43	83.5	41.3	29.5	1.1	1.14
Conmat Inc-Youngbluth	50852-67	10216 Chelsea Rd	Stockton	0.0 - 15.2 M	11.82	102.77	76.4	41.6	30	1.03	1.08
Fischer Excavating Inc-Ehler	50852-93	8022 Stage Coach Rd	Galena	+6.1 - 15.2 M	11.35	102.13	77.3	52.7	40.9	0.86	1.98
Fischer Excavating Inc-Millerschone	50852-20	7081 East Center Rd	Stockton	0.0 - 18.3m	8.36	98.17	77.8	44.1	32.4	1.02	1.1
Louie's Aggregate Company-Hahn, Galena	50852-90	4297 West Guilford Rd	Galena	0.0 - 13.7 M	9.96	92.26	80.5	39.5	28	1.17	1.2
Louie's Aggregate Company-P Mark	50852-17	3414 North Mammoser Rd	Stockton	0.0 - 10.7 M	11.16	95.7	85.9	48.3	36.1	0.96	1.05
Johnson											
Shawnee Stone - Cypress	50872-02	8395 State Rte 37 South	Cypress	0-20' Full Width	1.09	90.61	90.6	44.4	27.6	1.12	1.12
Southern Illinois Stone Company	50872-03	4800 IL-37	Buncombe	Various	2.32	72.22	64.9	21.2	13.6	2.3	2.03
Kane											
Lafarge Holcim-Lafarge Conco	50892-01	105 North Conco St	North Aurora	All Ledges Fine	5.3	98.68	99.8	77.6	54.6	0.67	0.78
Lafarge Holcim-Lafarge Conco	50892-01	105 North Conco St	North Aurora	All Ledges Coarse	3.38	99.67	93.6	57.2	42	0.81	0.91
Lafarge-Fox River	50892-02	1310 Route 31	South Elgin	Level 1 Nench Level 1 Breast	11.16	99.59	68	35.1	25	1.22	1.24
Kankakee											
Prairie Manteno	50912-06	8215 US 45	Manteno	Ledge C/39.3-57.6M	9.45	91.96	81.8	43.8	31.6	1.09	1.15

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Kankakee (continued)											
Vulcan Lehigh	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1 / 0.0-39.0M (Coarse Grinds)	10.48	91.61	75	40.1	30.8	1.16	1.24
Vulcan Lehigh	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1 / 0.0-39.0M (Fine Grinds)	10.28	90.79	78.9	42.8	32.8	1.11	1.2
Vulcan Manteno	50912-04	6141 IL 50	Manteno	Ledge DE/22.9-60.0M	11.03	95.77	75.3	35.7	23.9	1.24	1.23
Kendall											
Central Limestone	50932-01	16805 Quarry Rd	Morris	0-130'(0-39.6M) Various Locations	9.76	101.4	86.1	49.8	34	0.92	0.98
Lafarge North America-Kendall Quarry	50932-03	15194 Illinois Route 47	Elburn	Various	10.8	99.79	83.5	47.6	33.1	0.96	1.02
Lasalle											
Lafarge Utica	50992-02	N 27th Rd	Utica	Various Locations and Ledges	6.34	73.73	97.9	58.5	42.6	1.07	1.2
Riverstone Group Inc.-Troy Grove (MC46)	50992-01	539 Rte 52	Utica	Various Ledges (Course)	10.24	97.07	96.2	42	24.8	1.07	1.04
Riverstone Group Inc.-Troy Grove (MC46)	50992-01	539 Rte 52	Utica	Various Ledges (Fine)	8.81	95.54	90.1	54.1	43.1	0.86	0.98

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LaSalle (continued)											
Riverstone Group- Vermilion	50992-04	2273 North IL 78	Oglesby	Various Ledges	4.34	92.9	93.2	59.2	45.2	0.84	0.96
Lee											
ConMat Inc.-Palmyra Quarry ConMat	51032-73	250 Palmyra Rd	Dixon	Various	10.74	97.92	79.1	51.5	41.3	0.89	1.03
Renner Quarries LTD- Amboy	51032-04	902 Robbins Rd	Amboy	004 19.8m- 27.4m (65'-90')	8.49	97.42	84.3	35	22.9	1.2	1.16
Renner Quarries LTD- Dixon	51032-76	870 Renner Rd	Dixon	008 3m-23.2m (10'-76')	6.61	101.01	82.3	56.1	40.1	0.85	0.95
Livingston											
Prairie Materials-Pontiac	51052-09	15494 1200 North Rd	Pontiac	6.7 M Face	0.77	80.86	96	48.6	32.6	1.14	1.18
Valley View Industries	51052-19	18070-18998 East 1100 North Rd	McDowell	4.0M Face Blended Lime	0.84	90.4	97.5	64.7	46.4	0.82	0.94
Valley View Industries	51052-19	18070-18998 East 1100 North Rd	McDowell	4.0 M Face Milled (Fine) Lime	1	90.32	97.3	67.8	50.4	0.79	0.92
Madison											
Bluff City Minerals	51192-02	4007 College Ave	Alton	Anfo Headings Ledges 1-2	0.79	84.04	70.8	37.1	27.3	1.37	1.42

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Madison (continued)											
High Cal Pellet Lime-Bluff City Minerals	51192-04	4007 College Ave	Alton	Anfo Headings Ledges 1-2	1.08	87.34	99.1	87.8	73.6	0.64	0.83
Kimaterials D.B.A. Lohr Quarry	51192-01	9434 Godfrey Rd	Godfrey	Various (1-5)	3.84	87.78	89.3	54.1	40.5	0.96	1.07
McDonough											
Central Stone-Tennessee-CS53	51092-03	5533 East 400 St	Colchester	L1 & L2 AgLime 002FA00	1.89	82.71	91.7	57.2	41.8	0.99	1.1
Menard											
Hanson Material Service Yard 17	51292-02	25142 Quarry Ave	Athens	Combined Ledges	0.22	74.9	92.1	51.8	37.4	1.17	1.27
Monroe											
Columbia Quarry #7	51332-04	5440 Quarry Rd	Waterloo	24.4m Ledge 1-3	2.02	94.54	97.1	56.6	39.6	0.87	0.95
Ogle											
Eagle Creek Quarries-Galena Trail (Polo)	51412-18	2010 S Galena Trail	Polo	(002) 4.6M-8.5M	18.68	94.62	84.6	73.6	54	0.73	0.88
Fischer Escavating-Adamson's Limestone	51412-00	6511 North Limestone Rd	Monroe Center	0-12.2M (0-40') Ledge 001	10.8	99.79	70.2	40.5	30.2	1.09	1.16
Macklin Incorporated-Rochelle	51412-68	6089 South Dement Rd	Rochelle	Ledge 007 0-39M (1-128')	10.32	98.45	80.9	38.3	28.2	1.1	1.14
Martin & Company-Lime Kiln	51412-47	1720 North Lime Kiln	Oregon	Ledge 004 +1.0-16.8M (+3' - 55')	8.1	95.04	72.3	39	30.3	1.14	1.22

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Ogle (continued)											
Martin & Company- Oregon Stone	51412-34	1318 East Rte 64	Oregon	Ledge 003 +4.6- 18.3m(+15'- 60')	10.97	101.7	70.9	37.7	26.3	1.14	1.16
Rogers Ready Mix & Materials-Byron	51412-32	8503 North Barker Rd	Byron	Ledge 006 (15.2M-27.0M) 49.9'-88.6'	10.04	94.68	77.1	37.5	27.2	1.18	1.21
Steve Benesh and Sons Quarry-Oregon	51412-72	3923 North River Rd	Oregon	Ledge 004 +2.1m-15.2m	6.09	92.64	99.3	71.3	55.4	0.73	0.87
Wagner Aggregate Inc.- Fairdale	51412-92	20855 East IL Rte 72	Fairdale	Ledge 009 (10.7M-22.3M) 35.1'-73.16'	10.8	100.25	79.6	48.9	33.9	0.95	1.02
Pike											
Central Stone-Florence IL	51492-04	26176 487th St	Pittsfield	Ledge 3B	1.87	90.81	88.7	61.7	44.2	0.87	0.98
Central Stone-Florence IL	51492-04	26176 487th St	Pittsfield	Ledge 2	1.12	78.18	82.3	48	33.9	1.22	1.31
Central Stone-Fesler	51492-41	312th Ave and Township Rd 92	Barry	Common stockpile	0.09	90.29	94.7	58.6	41.4	0.89	0.99
Central Stone-Kinderhook	51492-05	218th St	Kinderhook	Common stockpile	0.44	88.08	89.9	55.1	39.4	0.96	1.06
V.H.Callender-New hartford Quarry	51492-01	31099 Dutch Creek Rd	Rockport	Ledge 1	0.57	92.3	88.2	53.6	37.9	0.94	1.03
V.H.Callender- Perry/Junction Quarry	51492-42	37742 412 St	Cambersburg	Ledge 1-4	2.55	84.93	84.5	54.6	43.4	0.98	1.13

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Pike (continued)											
V.H.Callender-Valley City Quarry	51492-02	310810 Quarry Rd	Griggsville	Combined Ledges	0.43	84.75	79.5	41.6	27.2	1.27	1.29
Pope											
Lafarge Holcim HC3	50692-09	RR 1 Box 128	Golconda	Various	1.38	94.65	78.3	40.7	26.7	1.16	1.17
Randolph											
Bluff City Materials-Prairie Du Rocher	51572-04	Bluff Rd	Prairie Du Rocher	8.5m Ledge 1	0.23	96.84	71.2	40.1	26	1.18	1.19
Rock Island											
Mill Creek Minig Inc- Collinson Pit	51612-16	560 10th Ave E	Milan	Southwest Davenport Ledge	5.28	88.58	82.4	46.1	34.7	1.08	1.17
Riverstone Group Inc.- Alleid (MC30)	51612-31	601 US Rte 67 North	Milan	Various Ledges	2.61	84.74	68.0	37.5	28.5	1.61	1.63
Riverstone Group Inc.- Midway (MC45)	51612-23	2721 - 248 St North	Hillsdale	Various Ledges	7.57	94.87	89.7	44.5	28.6	1.06	1.07
Shelby											
Brush Creek Quarry	51732-01	2371 County Hwy 6	Mode	Pichlish Pit	0.43	50.66	72.8	43.6	33.6	2	2.19
St. Clair											
Casper Stolle Quarry	51632-05	3003 Stolle Rd	Dupo	33.5 Ledge 1B	3.05	92.87	80	45.3	33	1.06	1.14
Columbia Quarry #9	51632-09	100 Industrial Drive	Dupo	9.9m Ledge 1- 5	1.64	91.82	85	49.3	36.3	1	1.09
Falling Springs Quarry	51632-03	2901 Stolle Rd	Dupo	19.8 M Ledge 4&5	2.49	92.57	85.5	46.4	33.1	1.04	1.1

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Stephenson											
Conmat Inc-Dwyer	51772-28	1708 South Hollywood Rd	Freeport	4.6 - 30.5 M	11.18	100.42	83.7	45.8	29.3	1	1.03
Conmat Inc-Monte	51772-27	475 StJames Rd	Orangeville	0.0 - 15.2m	9.42	101.37	80.3	44.9	29.3	1.01	1.04
Conmat Inc-Offenheiser (Goldmine)	51772-83	14180 Goldmine Rd	Pearl City	0.0 - 15.2m	7.72	94.71	77.2	43.2	31.4	1.08	1.15
Doc's Excavating Inc- Tessendorf	51772-04	6285 Il Rte 73	Lena	+3.0-15.2m	9.23	99.34	81.7	48	33.7	0.96	1.03
Fischer Excavating Inc-Ivey	51772-68	7994 Il Route 73North	Lena	0.0 - 15.2m	8.67	101.57	72.2	40.9	29	1.07	1.12
Fischer Excavating Inc- Winnesheik	51772-51	1570 East Winnesheik Rd	Freeport	0.0-9.1m	7.34	101.61	84.5	49.6	35.7	0.9	0.98
Union											
Anna Quarries Inc	51812-02	1000 Quarry Rd	Anna	129.9m- 138.5m	1.31	86.27	91.1	46.1	30.8	1.12	1.16
Shawnee Stone - Jonesboro	51812-02	1275 Jonesboro Quarry Rd	Anna	Various	0.29	96.08	98.6	82.6	62.2	0.64	0.78
Vermilion											
Hanson Material Service- Fairmont Quarry	51832-01	3706 Catlin-Homer Rd	Fairmount	North Cut- 20'Ledge	0.32	94	99	62.7	41.5	0.89	0.91
Warren											
Coot's Materials- Monmouth Quarry	51872-02	2351 6th St	Monmouth	Keokuk/ Burlington Ledges AgLime 002FA00	4.41	96.54	89.3	63.7	50	0.77	0.91

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Warren (continued)											
Riverstone Group Inc.- Valley Quarry	51872-01	772 175th St	St Augustine	60'-70' Ledge Aq Lime 002FA00	2.32	90.6	97.4	67.2	51.2	0.78	0.92
Whiteside											
Alliance Materials- Emerson	51952-59	5508 Emerson Rd	Sterling	Various	9.68	89.56	76.6	43.3	33.3	1.15	1.22
Alliance Materials-Kays Corner (From Siers Quarry)	51952-86	28257 Pilgrim Rd	Sterling	Ledge 006 21.3M-29.3M (70-96')	10.02	102.71	75.7	42.3	29.1	1.04	1.08
Alliance Materials-Siers	51952-86	28601 Pilgrim Rd	Sterling	Ledge 006 (21.3m-29.3m) 70'-96' Stockpile 2	8.59	101.83	68.3	40.1	28.7	1.09	1.15
Wendling Quarries @ Garden Plain	51952-64	Garden Plain Rd	Garden Plain	Ledge Full Face Bottom Pile	8.35	101.11	61.2	36.5	30	1.14	1.25
Wendling Quarries @ Garden Plain	51952-64	Garden Plain Rd	Garden Plain	Ledge Full Face Top Pile	9.07	99.88	82.5	54.9	45.3	0.82	0.97
Will											
Elmhurst Chicago Stone- South side Quarry	51972-10	351 Royce Rd	Bolingbrook	3.7-31.1M North Side Quarry	9.87	91.43	60.7	30.2	22.7	1.47	1.48
Lafarge Holcim-Lafarge Joliet	51972-15	2509 Mound Rd	Rockdale	All Ledges	6	102.95	98.8	75	51.1	0.66	0.76
Vulcan Materials- Bolingbrook	51972-09	22933 West Hassert Blvd.	Plainfield	All Ledges	4.68	99.9	72.6	43.5	32.3	1.03	1.11

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Will (continued)											
Vulcan Materials-Laraway	51972-19	595 West Laraway Rd	Joliet	0 - 27.4m	7.41	91.67	76.4	35.8	25.4	1.27	1.28
Vulcan Materials-Main Plant	51972-04	1361 North Joliet Rd	Romeoville	Various Ledges	8.68	99.5	80.9	47.7	35.2	0.95	1.04
Winnebago											
3 S Construction	52012-02	11184 North Main	Rockton	005	10.91	99.96	91.7	52.9	35.7	0.88	0.94
Rogers Redi-Mix & Materials @ Mulford	52012-31	5510 South Mulford Rd	Rockford	Ledge 002 (12.2-26.5m)	11.33	101.67	75.1	42.5	27.6	1.06	1.09
Iowa											
Riverstone Group Inc.- LeClaire (MC38)		400 Territorial Rd	LaClaire	Various Ledges Ag lime	9.4	103.64	72.6	35.3	24.6	1.15	1.16
Riverstone Group Inc.- LeClaire (MC38)		400 Territorial Rd	LaClaire	Various Ledges Hi-G	6.63	100.57	99.6	98.7	92.8	0.48	0.68
Riverstone Group Inc.- McCausland (MC39)		18965 - 300th St	Long Grove	Various Ledges	8.78	102.05	76.7	42.2	33.3	0.99	1.08
Riverstone Group Inc.-New Liberty (MC41)		2700 New Liberty Rd	Stockton	Various Ledges	8.91	93.61	78.7	41.3	33.8	1.07	1.18
Wendling Quarries @ Shaffton		2911 Hwy 67	Camanche	Ledges 16-19	9.5	104.17	79.6	45.5	33.2	0.94	1.01
Indiana											
Bloomington Crushed Stone	52102-07	1100 North Oard Rd	Bloomington	Ledges 1 threw 6	0.51	93.59	83.8	59	41.4	0.88	0.99
CalCar Quarries Inc	52102-10	860 East US Hwy 150	Paoli	Ledges 1-16	1.23	95.36	88.4	49.3	32.8	0.98	1.03
Cave Quarries Inc	77000-97	1156 North 425 West	Paoli	301-1502	0.8	89.72	97.7	45.8	27.9	1.09	1.08

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Indiana (continued)											
Lincoln Park StonePutnamville Quarry	52102-30	995 W US 40	Putnamville	Ledges 3-6	0.54	90.33	72	35.7	24.9	1.32	1.33
Mulzer Crushed Stone- Cape Sandy Quarry	52102-18	19925 S Alton Fredonia Rd	Leavenworth	Various	1.67	93.11	99.9	63.8	41.8	0.83	0.91
Mulzer Crushed Stone- Temple Quarry	52102-11	2785 East Temple Rd	English	Ledge #3	1.85	96.27	92.7	52.1	37.7	0.9	0.98
Newton County Stone (Rogers Group Inc)	52102-01	235 US-24	Kentland	Pits 7ABC & 8A Fine Grinds Combined	4.6	97.23	98.3	54	34.9	0.89	0.94
Newton County Stone (Rogers Group Inc)	52102-01	235 US-24	Kentland	Pits 7ABC & 8A Course Grinds Combined	5.06	97.16	75	35.4	26.4	1.19	1.22
Newton County Stone (Rogers Group Inc)	52102-01	235 US-24	Kentland	Pit 7ABC Ledges 4,5&6 0.0-150m Pit *A Ledges 1-2 0.0-50.0m	3.98	97.26	98.1	54.1	35.3	0.89	0.94
Newton County Stone (Rogers Group Inc)	52102-01	235 US-24	Kentland	Pit 7ABC Ledges 4,5&6 0.0-150m Pit8A Ledges 1- 2 0.0-50.0m	4.67	98.32	75	34.7	25.9	1.19	1.21
Rogers Group-Mitchell Crushed Stone	52102-04	3020 SR 60 West	Mitchell	Ledges 3-7	0.42	93.66	91	51.8	34.8	0.96	1.02

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Indiana (continued)											
Whitesville Mill Service	52103-22	4537 South Nucor Rd Box 314	Crawfordsville	Produced from Steel Slag	5	57.37	96.5	58.6	35.7	1.47	1.54
Missouri											
APAC-Brickey's Quarry	52302-70	13588 Brickeys Rd	Bloomsdale	Various Ledges	0.47	97.07	94.7	60.8	44.5	0.8	0.9
Bussen Koch Quarries Inc.-Koch Quarries	52302-65	5000 Bussen Rd	St Louis	Various Ledges	1.67	90.78	90.5	43.2	28.2	1.12	1.13
Bussen Quarries Inc.-Blussen Quarry Antire	52302-65	6800 Bussen Antire Rd	Eureka	11-27 200'	1.19	92.47	100	100	98.9	0.5	0.73
Central Stone-#31	52302-53	14200 Lewis & Clark Blvd.	Florissant	Various	2.02	82.28	100	100	98.5	0.57	0.82
Central Stone-Huntington	52302-04	46445 Sweetbay Lane	Hannibal	Common Stockpile	0.05	83.54	99.6	79.9	54.9	0.78	0.91
Lafarge Holcim Highway 51	52302-41	521 Quarry Lane	Perryville	19.5m Ledge 2&3	1.36	93.8	79.6	33.3	23.4	1.28	1.26
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0m Underground R-1 Soil Conditioner	0.1	97.21	100	71.1	27.7	0.86	0.83
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0m Underground R-2 Soil Conditioner	0.08	97.8	100	99.8	99.2	0.48	0.69
Mississippi Lime	52302-08	16147 US Hwy 61	Ste.Genevieve	30.0m Underground Lime Hydrated	0.16	129.45	100	99.9	99.7	0.36	0.52

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Missouri (continued)											
Mississippi Lime	52302-08	16147 US Hwy 61	Ste.Genevieve	30.0m Underground R- O Soil Conditioner	0.12	97.03	57.6	38.1	26.6	1.24	1.31
Mississippi Lime	52302-08	16147 US Hwy 61	Ste.Genevieve	30.0m Underground Calcium Carbonate	0.05	96.42	100	99.8	98.8	0.48	0.7
Mississippi Lime	52302-08	16147 US Hwy 61	Ste.Genevieve	30.0m Underground Code L	0.15	99.45	100	97.1	84.3	0.51	0.69
Mississippi Lime	52302-08	16147 US Hwy 61	Ste.Genevieve	30.0m Underground Code h	0.22	131.65	100	98.5	75.2	0.4	0.52
Simpson Materials Company LLC	52302-51	860 Sulpher Springs Rd	Imperial	25.6m(84')Led ge 1-5	0.21	97.3	98.9	63.8	41.8	0.8	0.87
Tower Rock Stone	52302-39	19829 Lower Frenchman Rd	Ste.Genevieve	Various Ledges	0.74	95.58	98.2	62.3	38.7	0.84	0.9
W.B. Smith	52302-28	10415 MO-79	Louisiana	Common stockpile	0.06	95.4	93.7	53.3	36.3	0.91	0.98

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Wisconsin											
Franklin Aggregate	52402-99	6211 West Rawson Ave	Franklin	Combined Ledges	10.79	98.41	73.8	34.4	23.1	1.24	1.22
Little Limestone	52402-86	8609 East Little Lane	Clinton	12.2-18.3M	3.47	98.38	90.6	72.4	60.6	0.67	0.84
Payne & Dolan Racine Quarry	52402-01	1501 3 Mile Rd	Racine	Combined Ledges	11	100.58	62.7	32.5	22.9	1.29	1.3
Waukesha Lime & Stone	52402-05	W233 N507 Hwy F	Waukesha	Combined Ledges	11.04+L2 06F195:L 221F187: L221A31 F1:L221	99.8	74.9	39.4	30.8	1.07	1.14