

State of Illinois

Department of Agriculture

Raymond Poe, Director



Illinois Voluntary Limestone Program **PRODUCER INFORMATION**

AUGUST 2017 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.

$$.141 \times \mathbf{5} = .70$$

$$.507 \times \mathbf{20} = 10.14$$

$$.138 \times \mathbf{50} = 6.90$$

$$.214 \times \mathbf{100} = 21.4$$

39.14 = Total Fineness Efficiency Value

Step 5

(TFEV) $39.14 \times (\text{CCE}) .9363 = 36.65$ (product)

Step 6 One Year application Rate

Always divide the product of step 5 into 46.35.

$$46.35 \div 36.65 = 1.26$$

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

$$\text{CCE}_t = \%Ca (2.4973) + [1.1817 (\%Mg \times 3.4676)]$$

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Producer By County	IDOT Producer Number	Address Where Stockpile is Located	City of Stockpile	Ledge Footage & Location	% Mg	CCE	% Pass #8	% Pass #30	% Pass #60	1 yr correction factor	4 yr correction factor
Adams											
Central Stone-Lorraine	50012-04	2489 East 1600th Street	Lorraine	Common Stockpile	2.53	78.71	85.4	50.5	38.0	1.13	1.25
Central Stone-Marblehead	50012-33	743 East 753rd Lane	Quincy	Common Stockpile	0.90	95.78	87.4	53.2	37.2	0.92	1.00
Central Stone-Millcreek	50012-06	8514 Rock Quarry Road	Quincy	Common Stockpile	1.81	93.60	79.3	53.4	42.3	0.92	1.06
Boone											
Beverly Materials	50072-16	4151 Irene Road	Belvidere	007 (Sump)	11.75	100.46	88.6	47.6	32.4	0.95	0.99
Beverly Materials	50072-16	4151 Irene Road	Belvidere	001-006 conglomerate	8.68	99.43	73.4	37.1	26.7	1.15	1.18
Consolidated Materials Inc	50072-02	1473 Flora Church Road	Kirkland	Ledge 005 (0m-26.8m)	11.73	99.14	79.6	40.9	28.2	1.08	1.11
William Charles-Irene	50072-01	4545 Irene Road	Belvidere	Ledge 003 (12.2-26.5)	11.81	100.17	93.3	50.9	35.9	0.89	0.95
Carroll											
Civil Materials Inc-Lodberg	50152-78	15110 Route 73	Lanark	Ledge 003,0.0-16.8m West Face	10.41	96.22	79.5	44.4	35.4	1.00	1.11
Eagle Creek Quarries-Sword	50152-53	3367 Eagle Road	Milledgeville	Ledge 007 +8.8-+2.7m	9.07	98.49	76.8	54.1	42.0	0.88	1.01
Fischer Excavating Inc-Deerer	50152-16	15653 Benton Street	Mt.Carroll	Ledge 004,7.7-15.2m	11.55	98.65	79.8	43.4	29.9	1.05	1.09
Fischer Excavating Inc-Sturtz	50152-93	15124 Route 73	Lanark	Ledge 5,+1.0-17.6m East Face	10.48	86.19	78.8	41.5	30.9	1.20	1.27
Wendling Quarries Inc-Turnbaugh	50152-74	10212 Quarry Road	Mt.Carroll	Ledge 004 18.0-31.7m	9.30	101.34	74.3	38.7	26.3	1.12	1.14

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Christian											
Pana Limestone	50212-04	325 North 1600 East	Pana	Combined Ledges	0.40	90.57	80.9	29.6	18.2	1.46	1.34
Clark											
Casey Stone	50232-06	7600 North State Hwy 49	Casey	Full Face	0.36	88.27	80.6	34.6	21.7	1.37	1.31
Mid-Illinois Quarry	50232-02	9129 North 230th Street	Casey	Full Face West Pit	0.30	89.31	97.0	42.4	25.6	1.15	1.12
Quality Lime Company	50232-05	14915 N Quality Lime Road	Marshall	All Ledges Combined	1.16	82.30	97.4	50.3	32.6	1.10	1.14
Coles											
Charleston Stone Company-Charleston Crushed Stone	50292-02	9709 N Co Rd 2000 East	Ashmore	Fine All Ledges Combined	0.24	89.20	96.5	67.6	45.5	0.83	0.93
Charleston Stone Company	50292-02	9709 N Co Rd 2000 East	Ashmore	Coarse All Ledges Combined	0.37	86.29	85.9	49.8	37.9	1.04	1.15
Cook											
Hanson Material Service- Thornton Quarry	50312-04	322 South Williams	Thornton	All Ledges FM- 21	7.66	97.56	81.2	42.5	30.3	1.05	1.10
Hanson Material Service- Thornton Quarry	50312-04	322 South Williams	Thornton	All Ledges Ag- Lime	8.85	95.58	90.1	43.9	31.7	1.02	1.07
Hanson Material Service- West Part of Quarry	50312-02	9101 W 47th Street	McCook	Various Ledges	10.54	87.72	78.9	39.3	28.0	1.24	1.28
Vulcan Materials-Main Plant	50312-78	5500 Joliet Road	McCook	MWRD Various Locations	8.55	95.39	75.1	40.3	28.4	1.14	1.19
Dekalb											
Vulcan Materials-Dekalb	50372-02	15622 Barber Green Road	Sycamore	Various Locations	11.98	99.45	78.7	44.9	33.9	0.99	1.07

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Dekalb (cont.)											
Vulcan Materials- Sycamore	50372-01	12502 Lloyd Road	Sycamore	Various Locations	12.30	102.11	83.4	48.0	35.8	0.91	1.00
Douglas											
Tuscola Stone Quarry	50412-01	1199 East US 36	Tuscola	Mixed Ledges	7.68	93.99	79.9	45.1	31.3	1.07	1.13
Greene											
Kimaterials Inc-Kane Quarry	50612-02	RR 1 Old Kane Road	Kane	Various	3.24	90.21	77.0	43.0	30.7	1.15	1.21
V.H. Callender- Thomas/Glasgow Quarry	51712-01	24 Hillview Road	Winchester	Ledge 1	0.97	93.14	83.9	48.6	33.9	1.01	1.08
Grundy											
LafargeHolcim-AuxSable Quarry	50632-01	2998 County Road 7000 North	Morris	'0-75' Ledge	1.37	91.30	82.2	49.1	33.8	1.04	1.11
Hancock											
Gray Quarries	50672-03	700-798 S 2nd Street	Hamilton	63.4m-75.6m ledge #7	2.03	94.76	98.7	74.0	59.0	0.68	0.83
Gray Quarries	50672-03	700-798 S 2nd Street	Hamilton	48.8m-54.9m ledge #5	0.55	93.57	99.0	62.6	41.9	0.83	0.91
Gray Quarries	50672-03	700-798 S 2nd Street	Hamilton	Common Stockpile	1.90	89.20	78.6	42.2	32.9	1.13	1.22
Hardin											
Hastie Mining	50692-04	RR 1 Box 55	Cave in the Rock	Various	1.34	86.24	73.4	31.4	19.8	1.52	1.44
LafargeHolcim-HC3	50692-09	RR 1 Box 128	Golconda	Various	0.85	89.65	74.7	32.4	20.0	1.44	1.36
Henry											
RiverStone Group Inc- Cleveland (MC31)	50732-12	1069 North Broadway Street	Colona	Various Ledges	10.47	103.03	92.7	39.5	27.9	1.01	1.02

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Iroquois											
Prairie Materials-East of Truck Scale	50752-01	2744 N 200 E RD	Ashkum	Ledge A Regular Grinds	3.12	85.35	89.9	63.3	46.8	0.89	1.03
Prairie Materials-East of Truck Scale	50752-01	2744 N 200 E RD	Ashkum	Ledge B Regular Grinds	3.07	84.64	54.3	10.7	8.9	2.63	2.15
Jackson											
Kinkaid Stone Company	50772-02	4287 Kinkaid Stone Road	Ava	0.0-8.2M Fine	2.35	87.25	97.9	47.4	28.3	1.11	1.10
Kinkaid Stone Company	50772-02	4287 Kinkaid Stone Road	Ava	0.0-8.2M Course	2.16	87.90	81.4	43.9	29.1	1.17	1.21
Jersey											
Calhoun Quarry Inc-East	50832-03	25840 Eldred Road	Fieldon	Various Ledges	1.30	94.22	99.7	79.0	58.4	0.68	0.81
JoDavie											
Civil Materials-Virtue	50852-06	1450 N Ferry Landing Road	Galena	Ledge 002,18.3-30.5m West Face	5.00	94.14	77.1	42.6	31.0	1.10	1.16
Civil Materials-Youngbluth	50852-67	10216 Chelsea Road	Stockton	Ledge 001,0.0-15.2m East face	12.07	102.58	79.8	43.5	31.5	0.99	1.05
Louie's Aggregate Company-P Mark	50852-17	3414 N Mammoser Road	Stockton	Ledge 001,0.0-10.7m South Face	10.03	96.16	76.1	40.1	29.9	1.11	1.17
Louie's Aggregate Company-Hahn, Galena	50852-90	4297 W Guilford Road	Galena	Ledge 002,0.0-13.7m	11.55	95.90	81.2	43.1	30.6	1.06	1.12

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Johnson											
Shawnee Stone-Cypress	50872-02	8395 State Route 37 South	Cypress	Various	1.48	91.57	89.3	49.1	31.8	1.03	1.07
Southern Illinois Stone Company	50872-03	4800 State Route 37 North	Goreville	Various	1.18	85.79	64.2	27.3	18.7	1.68	1.60
Kane											
LafargeHolcim-Lafarge Conco	50892-01	105 Conco Street	North Aurora	All Ledges	4.45	96.74	99.9	79.1	54.9	0.67	0.79
LafargeHolcim-Fox River Quarry	50892-02	1310 S IL RT 31	South Elgin	Level 1 Breast	10.97	100.54	66.6	38.7	27.7	1.14	1.19
Kankakee											
Prairie Materials-East side of production plant next to the wash plant	50912-06	8215 US 45	Manteno	Ledge B/Regular Grinds	11.37	95.01	84.8	35.0	21.6	1.25	1.19
Prairie Materials-South of Scale House next to the crushed PCC pile	50912-06	8215 US 45	Manteno	Ledge C/Fine Grinds Blast GPS	10.83	90.71	100.0	99.8	99.0	0.51	0.74
Vulcan Materials-North of scale house west side of haul ramp	50912-04	6141 Illinois 50	Manteno	F Ledge/60.0- 75.2M	11.30	91.82	73.9	36.5	26.2	1.26	1.28
Vulcan Materials- Northeast side of main palnt in a metal roofed lean-to	50912-02	1277 County Highway 28	Kankakee	Ledge 1 blast GPS- N41*06'32.3" w087*59'25.9"	11.52	94.92	72.4	38.1	29.0	1.17	1.23
Kendall											
Central Limestone-Lisgon Quarry	50932-01	16805 Quarry Road	Morris	Various	9.35	102.52	94.1	55.5	36.7	0.84	0.89
LafargeHolcim-LaFarge N.A. Kendall Quarry	50932-03	15194 Illinois Route 47	Elburn	Various Ledges	7.09	92.82	84.5	49.7	36.2	0.99	1.07

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Kendall (cont.)											
Vulcan Materials-Lisbon	50932-02	10425 Joliet Road	Lisbon	Various ledges and location	11.24	94.52	95.5	54.6	41.3	0.87	0.97
LaSalle											
LafargeHolcim-Utica	50992-02	North 27th Road	Utica	Various Locations 11.0M-27.4M	9.18	79.78	85.8	50.8	39.3	0.84	1.52
RiverStone Group- Vermillion (MC47)	50992-04	2273 North Illinois 178	Oglesby	Various Ledges	2.63	77.95	91.6	59.3	44.7	1.01	1.15
RiverStone Group- Troy Grove (MC46)	50992-01	539-Route 52	Utica	Various Ledges Course	11.13	92.03	99.1	41.9	24.2	1.13	1.08
RiverStone Group-Troy Grove (MC46)	50992-01	539-Route 52	Utica	Various Ledges Fine	11.34	94.90	94.0	56.3	41.8	0.86	0.96
Lee											
Civil Materials-Palmyra	51032-73	217 Palmyra Road	Dixon	Various	10.17	100.71	84.5	58.5	46.2	0.79	0.92
Livingston											
Prairie Materials-Pontiac Yard 88	51052-09	15494 1200 N	Pontiac	6.7M Face Ag Lime	0.70	81.25	95.2	55.3	39.2	1.03	1.12
Valley View Industries- McDowell Quarry	51052-19	18070-18998 East 1100 North Road	McDowell	4.0 M Face Blended Lime	0.81	90.31	95.6	53.6	35.9	0.96	1.02
Valley View Industries- McDowell Quarry	51052-19	18070-18998 East 1100 North Road	McDowell	4.0 M Face Milled Lime	0.81	87.92	97.7	74.7	55.9	0.75	0.90

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Madison											
Bluff City Minerals	51192-02	4007 College Avenue	Alton	Ledge 1 North Anfo Headings Ledge 2 North West Anfo Bench	1.87	90.46	71.6	36.5	25.8	1.29	1.32
High Cal Pellet Lime-Bluff City Minerals	51192-04	4007 College Avenue	Alton	Ledge 1 North Anfo Headings Ledge 2 Northwest Anfo Bench	2.17	88.54	99.0	86.5	71.1	0.64	0.83
Kimaterials Inc-Lohr	51192-01	9434 Godfrey Road	Godfrey	Various	5.67	89.58	93.8	57.9	42.7	0.90	1.00
Menard											
Hanson Material Service Yard 17	51292-02	25142 Quarry Avenue	Athens	Combined Ledges	0.42	85.96	82.3	32.4	22.1	1.41	1.37
Monroe											
Columbia Quarry #7	51332-04	5440 Quarry Road	Waterloo	24.4M Ledge 1-3	2.29	92.53	85.4	40.8	27.7	1.14	1.16
Montgomery											
Hanson Material Service Yard 12	51352-01	22283 Taylorville Road	Nokomis	Combined Ledges	0.34	84.98	93.6	41.6	26.9	1.21	1.20
Hanson Material Service Yard 58	51352-04	22283 Taylorville Road	Nokomis	Combined Ledges	0.50	90.94	100.0	99.4	94.3	0.53	0.74
Nokomis Quarry	51352-03	23311 Taylorville Road	Nokomis	Combined Ledges/Course Lime	0.42	92.69	73.1	22.5	12.7	1.72	1.48

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Montgomery (cont.)											
Nokomis Quarry	51352-03	23311 Taylorville Road	Nokomis	Combined Ledges/Fine Grind Ag Lime	0.43	90.54	99.1	43.1	24.6	1.14	1.09
Ogle											
Eagle Creek Quarries-Galena Trail	51412-18	2010 South Galena Trail	Polo	8.5M-19.8M(27.9-64.9)Ledge 003	10.73	95.47	77.3	60.2	44.4	0.85	0.99
Fischer Excavating-Monroe Center	51412-00	6511 North Limestone Road	Monroe Center	0-12.2m(0-40')Ledge 001	11.93	100.67	66.0	27.3	18.2	1.43	1.35
Macklin-Rochelle	51412-68	6089 South Dement road	Rochelle	007 0-39.0m(0'-128')	8.20	97.71	73.8	36.8	27.7	1.16	1.20
Martin & Company-Lime Kiln	51412-47	1720 North Limekiln	Oregon	004 +1.0-16.8m (+3'-55')	0.83	96.72	76.3	38.1	26.8	1.16	1.19
Rogers R/M & Materials-Aschel Ford	51412-32	8503 North Barker Road	Byron	Ledge 006 15.2m-27.0m(49.9'-88.6')38.7'	11.67	97.13	79.9	40.4	29.5	1.09	1.14
Steve Benesh and Sons Quarry-Oregon	51412-72	3923 North River Road	Oregon	004 +2.1m-15.2m(6.9'-49.9')	7.56	85.05	87.7	66.9	60.3	0.80	1.02
Wagner Aggregates-Fairdale	51412-92	20855 E IL Rte 72	Fairdale	009 (10.7-22.3) 35.1-73.2'	9.08	100.11	87.6	51.9	35.7	0.90	0.97

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Pike											
Central Stone	51492-04	26176 487th Street	Pittsfield	Ledge 5	3.68	94.41	86.3	51.0	39.3	0.93	1.04
Central Stone Company	51492-04	26176 487th Street	Pittsfield	Ledge 2	0.73	79.77	71.8	36.0	24.2	1.50	1.50
Central Stone-Fesler	51492-41	312th Avenue and Township Rd 92	Barry	Common Stockpile	0.76	81.35	95.1	61.3	43.6	0.96	1.07
Central Stone-Kinderhook	51492-05	218th Street	Kinderhook	Common Stockpile	0.49	93.18	98.5	61.5	41.8	0.84	0.92
V.H. Callender- Thomas/Glasgow Quarry- New Hartford Quarry	51492-01	31099 Dutch Creek Road	Rockport	Ledge 1	1.03	87.03	85.6	51.7	38.1	1.02	1.12
V.H. Callender-Valley City Quarry	51492-02	310810 Quarry Road	Griggsville	Combined Ledges	0.40	84.15	82.4	45.8	30.4	1.19	1.24
Randolph											
Bluff City Minerals-Prairie Du Rocher	51572-04	Bluff Road	Prairie Du Rocher	8.5M Ledge 1	0.21	97.28	65.6	34.3	22.2	1.32	1.30
Rock Island											
RiverStone Group Inc- Allied (MC30)	51612-31	601 US Rte. 67 North	Milan	Various Ledges (Dolomite)	8.56	75.97	94.5	77.4	69.0	0.79	1.03
RiverStone Group Inc- Midway (MC45)	51612-23	2721-248 Street North	Hillsdale	Various Ledges	11.69	98.96	91.2	46.7	31.1	0.97	1.00
RiverStone Group Inc- Allied (MC30)	51612-31	601 US Rte 67 North	Milan	Various Ledges (Limestone)	5.85	75.45	75.4	48.0	40.1	1.21	1.40
Shelby											
Brush Creek Quarry	51732-01	2371 Co Hwy 6	Mode	Pickish	0.47	20.04	66.5	38.6	29.1	5.63	6.00

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St.Clair											
Casper Stolle Quarry- Quarry Lot	51632-05	3003 Stolle Road	Dupo	L-12 25'	1.00	91.32	85.2	50.6	34.0	1.02	1.08
Columbia Quarry #9	51632-09	100 Industrial Drive	Dupo	9.9M ledge 1-5	1.70	91.39	91.1	51.0	35.9	0.98	1.05
Falling Springs Quarry- Quarry Lot	51632-03	2901 Stolle Road	Dupo	L 1B 100'	1.01	93.00	88.0	50.4	35.5	0.98	1.05
Stephenson											
Civil Materials-Offenheiser (Goldmine)	51172-83	14180 Goldmine Road	Pearl City	Ledge 001 0.0- 15.2m	8.00	91.51	87.5	44.0	30.7	1.09	1.13
Doc's Excavating Inc- Tessendorf	51772-04	6285 Il Rt 73 North	Lena	Ledge 007 +3.0-15.2m West Face	9.30	100.60	70.2	41.2	30.2	1.07	1.14
Fischer Excavating Inc- Winnesheik	51772-51	1570 E Winnesheik Road	Freeport	Ledge 001,0.0- 9.1m	11.52	101.21	80.0	46.1	32.9	0.97	1.04
Union											
Anna Quarry Inc	51812-02	1000 Quarry Road	Anna	123.9m- 138.5m	3.75	92.67	90.1	46.0	29.7	1.06	1.08
Shawnee Stone-Jonesboro	51812-03	1275 Jonesboro Quarry Road	Anna	Various	0.37	94.97	97.1	74.2	54.1	0.71	0.84
Vermilion											
Hanson Material Service- Fairmount Quarry	51832-01	3706 Catlin-Homer Road	Fairmount	North Cut- 20'Ledge	0.29	93.60	99.3	57.5	36.1	0.90	0.94
Warren											
Coots Materials Monmouth Quarry	51872-02	2351 6th Street	Monmouth	Keokuk/Burling ton Ledges	2.51	87.03	86.5	57.9	45.0	0.92	1.07
RiverStone Group Inc- Valley Quarry (MC07)	51872-01	772 175th Street	St.Augustine	60'-70' Ledge Ag Lime 002FA00	1.78	91.71	95.0	63.5	46.1	0.82	0.94

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Whiteside											
Alliance Materials-Siers	51952-86	28601 Pilgrim Road	Sterling	006 21.3m- 29.3m (70-96)	8.92	101.54	59.4	33.8	24.1	1.26	1.29
Will											
Elmhurst-Chicago Stone- South Side Quarry	51972-10	351 Royce Road	Bolingbrook	3.7-3.11 M North Side Quarry	11.59	99.62	72.4	34.8	23.6	1.22	1.21
LafargeHolcim-Joliet	51972-15	2509 Mound Road	Rockdale	All Ledges	8.80	101.40	95.0	60.5	46.2	0.76	0.87
Vulcan Materials- Bolingbrook	51972-09	22933 West Hassert Blvd.	Plainfield	All Ledges	4.11	97.35	73.9	43.1	32.5	1.05	1.14
Vulcan Materials-Main Plant	51972-04	1361 North Joliet Road	Romeoville	Various Ledges	10.08	100.83	79.3	47.4	35.0	0.95	1.03
Vulcan Materials-Laraway	51972-19	595 West Laraway Road	Joliet	0-27.4m	8.75	97.15	76.4	31.6	21.0	1.31	1.26
Winnebago											
3 S Construction	52012-02	11184 North Main	Rockton	004	11.65	96.41	80.3	36.9	27.0	1.16	1.18
Northern Illinois Service- Bedrock	52012-73	6799 Swanson Road	Roscoe	013	11.60	96.05	80.4	48.5	33.7	1.00	1.07
Iowa											
RiverStone Group- McCausland (MC39)	52202-16	300th Street	Long Grove	Various Ledges(MSA)	11.47	99.85	72.9	42.8	35.3	1.00	1.12
RiverStone Group- McCausland (MC39)	52202-16	300th Street	Long Grove	Various Ledges	10.66	99.72	77.1	48.4	40.0	0.91	1.05
RiverStone Group-LeClaire (MC38)	52202-10	400 Territorial Road	LeClaire	Various Ledges(Hi-G)	12.22	102.20	100.0	100.0	98.8	0.46	0.66
RiverStone Group-New Liberty (MC41)	52202-91	2700 New Liberty Road	Stockton	Various Ledges	10.72	93.14	96.3	57.2	46.9	0.83	0.96
RiverStone Group-LeClaire (MC38)	52202-10	400 Territorial Road	LeClaire	Various Ledges	8.96	102.72	80.6	46.5	33.3	0.95	1.01

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Iowa (cont.)											
Wendling Quarries-Shaffton	52202-06	2911 Hwy 67	Camanche	30' North	8.84	103.89	90.3	51.0	35.8	0.86	0.93
Indiana											
Bloomington Crushed Stone	52102-07	1100 North Oard Road	Bloomington	1-6	0.23	95.41	100.0	90.9	54.6	0.65	0.74
CalCar Quarries Inc	52102-10	860 E US Hwy 150	Paoli	Ledges 1-16	1.46	95.79	84.1	45.1	28.8	1.06	1.08
Cave Quarries Inc	77000-97	1156 North 425 West	Paoli	Ledges 4-10	1.13	93.85	97.6	48.6	29.5	1.01	1.01
Hanson Material Service-Andersons Inc	52102-37	101 Agrico Lane	Seymour	Various	2.19	86.61	98.6	91.0	73.8	0.64	0.82
Indian Creek Quarry LLC	52102-38	12587 Mount Olive Road	Williams	INDOT ledges 702-801	1.58	77.36	94.5	44.2	30.2	1.26	1.29
Lincoln Park Stone-Putnamville Quarry	52102-30	995 West US 40	Putnamville	Ledges 3-6	0.13	93.20	74.4	33.5	21.6	1.34	1.30
Martin Marietta Aggregates-Cloverdale Quarry	52102-33	2010 East Co Rd 800 South	Cloverdale	58'Face West Pit,South Face,Ledges 10-402	0.96	87.86	92.8	48.7	34.9	1.03	1.10
Mulzer Crushed Stone-Evansville Materials	52100-49	900 NW Riverside Drive	Evansville	Various@Charleston Quarry	7.24	97.11	82.3	44.6	33.3	1.01	1.08
Mulzer Crushed Stone	52102-11	2785 East Temple Road	English	Various Ledges	0.71	87.51	93.6	52.1	34.7	1.02	1.08
Mulzer Crushed Stone	52102-14	7172 South Tower Road	Leavenworth	Various Ledges	0.75	91.44	96.3	54.9	37.1	0.93	1.00
Mulzer Crushed Stone	52102-29	3380 W Co Rd North	West Baden Springs	Various	1.15	94.90	99.2	62.4	40.2	0.83	0.90
Mulzer Crushed Stone	52102-18	19925 Alton Fredonia Road	Leavenworth	Various	4.29	94.20	95.5	58.8	39.2	0.87	0.94

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Indiana (cont.)											
Newton County Stone- Straight South of Entrance	52102-01	235 US 24	Kentland	ledges 4-5-6 Pit 7 Levels ABC Grid I,J16 Fine Grinds	6.97	96.53	98.0	47.7	29.7	0.98	0.99
Newton County Stone- Straight South of Entrance	52102-01	235 US 24	Kentland	Ledges 4-5-6 Pit 7 Levels ABC Grid I,J16 Coarse Grinds	7.02	95.15	74.6	36.2	26.6	1.21	1.24
Rogers Group-Mitchell Crushed Stone	52102-04	3020 SR60 West	Mitchell	Ledge 3-7	0.64	89.26	87.9	44.6	29.9	1.12	1.15
US Aggregates-The Anderson's Inc	52102-37	101 Agrico Lane	Seymour	Ledges 1&2	9.84	106.05	100.0	99.8	99.0	0.44	0.64
Whitesville Mill Service	52103-22	4537 S Nucor Rd Box 314	Crawfordsville	Produced from steele slag	4.45	63.92	99.1	62.2	38.6	1.25	1.34
Missouri											
APAC-Brickley's Quarry	52302-70	13588 Brickeys Road	Bloomsdale	Various Ledges	0.48	96.78	95.5	58.7	40.5	0.84	0.92
Bussen Quarries-Antire Quarry	52302-65	6800 Bussen Antire Road	Eureka	Ledge 11- 27,200' Stockpile#1 Ultra	5.24	95.77	100.0	99.8	98.7	0.49	0.71
Bussen Quarries-Antire Quarry	52302-65	6800 Bussen Antire Road	Eureka	Stockpile #2 Standard A6 Lime (GRASAN)	2.37	95.87	97.5	66.6	48.9	0.75	0.87
Bussen Quarries-Koch	52302-07	5000 Bussen Road	St.Louis	Ledge 5- 21,150'	1.02	91.36	94.5	51.9	35.1	0.97	1.03

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Missouri (cont)											
Central Stone-CS 31 Fort Belle	52302-53	14200 Lewis & Clark Blvd	Florissant	Various Ledges	0.47	73.48	100.0	99.9	98.6	0.64	0.92
Central Stone-CS 31 Fort Belle	52302-53	14200 Lewis & Clark Blvd	Florissant	Various	0.86	94.55	91.1	35.1	14.3	1.35	1.16
Central Stone-Huntington	52302-04	46445 Sweetbay Lane	Hannibal	Common Stockpile	0.37	94.44	98.6	56.5	32.1	0.93	0.94
Lafarge Holcim-Highway 51	52302-41	521 Quarry Lane	Perryville	19.5M Ledge 2&3	1.52	92.65	90.7	40.5	27.0	1.13	1.13
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M Underground Code H	0.25	126.73	99.9	99.1	96.5	0.37	0.54
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M Underground R-2 soil conditioner	0.15	85.35	100.0	100.0	99.6	0.54	0.79
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M Underground Calcium Carbonate	0.08	95.90	100.0	99.7	99.5	0.48	0.71
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M Underground R-1 soil conditioner	0.13	97.10	100.0	77.0	32.5	0.80	0.80
Mississippi Lime	52302-08	16147 US Hwy 61 14180 Goldmine Road	Ste.Genevieve	30.0M Underground	0.15	125.11	100.0	100.0	99.9	0.37	0.54
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M underground	0.17	97.21	60.0	41.8	28.1	1.17	1.24

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Missouri (cont)											
Mississippi Lime	52302-08	16147 US Highway 61	Ste.Genevieve	30.0M Underground Code L	0.16	112.37	100.0	90.8	58.0	0.54	0.63
Simpson Materials- Barnhart Quarry	52302-51	860 Sulphur Springs Road	Imperial	Kimswick Ledges 1-5	0.12	95.16	99.9	78.2	54.4	0.69	0.81
Tower Rock Stone	52302-39	19829 Lower Frenchman Road	Ste.Genevieve	Various Ledges	0.65	95.40	98.2	64.5	42.3	0.81	0.89
W.B. Smith	52302-28	10415 MO-79	Louisiana	Common Stockpile	0.17	92.62	92.7	53.3	36.5	0.94	1.01
Wisconsin											
Franklin Aggregates	52402-99	6211 Rawson Avenue	Franklin	Combined Ledges	8.01	86.94	76.3	38.1	27.1	1.29	1.32
Lannon Stone Products- Sussex Quarry	52402-64	N52W23096 Lisbon Road	Sussex	50' Ledge 642	9.35	99.00	57.7	26.8	20.7	1.46	1.45
Little Limestone	52402-86	8609 East Little Lane	Clinton	12.2-18.3m	9.17	94.64	90.1	80.4	72.6	0.62	0.83
Payne and Dolan Racine- Racine Quarry	52402-01	1501 3 Mile Road	Racine	Lower Mayville	9.85	84.79	77.1	37.5	26.0	1.34	1.35
Waukesha Lime and Stone	52402-05	N250 W233 Hwy F	Waukesha	Combined Levels	8.95	99.56	73.2	36.7	27.8	1.14	1.19