

State of Illinois

Department of Agriculture

Raymond Poe, Director



Illinois Voluntary Limestone Program **PRODUCER INFORMATION**

AUGUST 2018 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 x (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

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

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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 - Loraine	50012-04	2489 East 1600th St	Quincy	common stockpile	3.123	75.21	87.6	53.8	41	1.12	1.27
Central Stone - Millcreek	50012-06	8514 Rock Quarry Rd	Quincy	Common Stockpile	4.994	97.98	82.5	51.6	40.7	0.89	1.01
Boone											
Consolidated Materials	50072-02	1473 Flora Church Rd	Kirkland	Ledge 005 (0m- 26.8m)	3.143	96.59	83.7	49.2	35.9	0.95	1.04
Beverly Materials	50072-16	4151 Irene Rd	Belvidere	001-006 (conglomerate)	12.58	100.92	86.9	48.7	34.9	0.92	0.99
William Charles - Irene	50072-01	4545 Irene Rd	Belvidere	Ledge 003 (12.2-26.5M)	12.57	96.18	95	55.2	40.5	0.86	0.95
Carroll											
Eagle Creek Quarries - Sword	50152-53	3367 Eagle Rd	Milledgeville	007, +8.8- +2.7m	11.65	95.96	76.5	55	43.4	0.88	1.03
Fischer Excavating - Deerer	50152-16	15653 Benton St	Mt Carroll	Ledge 004, 7.7- 15.2M	12.39	100.52	72.9	36.3	24.9	1.17	1.18
Savanna Quarry Inc - Lawrence (Ritchie)	50152-92	9859 Scenic Bluff Rd	Savanna	Ledge 007, 0.0- 31.1M	12.6	100.48	80.2	41.4	30	1.04	1.09
Wendling Quarries Inc - Turnbaugh	50152-74	10212 Quarry Rd	Mt Carroll	Ledge 004, 18.0-31.7m	12.3	102.69	73.9	36.8	26	1.12	1.14
Christian											
Pana Limestone Quarry	50212-04	325 North 1600 East	Pana	Combined Ledges	.538	94.46	82.3	37.8	25.2	1.19	1.18
Clark											
Casey Stone	50232-06	7600 N State Hwy 49	Casey		1.009	86.7	75.4	30	20.5	1.5	1.44
Mid-Illinois Quarry	50232-02	9129 N 230th St	Casey	Full Face West Pit	.480	90.35	95.9	47	30.2	1.06	1.07

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Clark cont.											
Quality Lime Company	50232-05	14915 N Quality Lime Rd	Marshall	All ledges combined	1.678	85.95	90	48.3	33.8	1.08	1.15
Coles											
Charleston Stone Company	50292-02	9709 N Co Rd 2000 E	Ashmore	Fine All Ledges Combined	.571	89.95	99.5	66.2	42.6	0.84	0.92
Charleston Stone Company	50292-02	9709 N Co Rd 2000 E	Ashmore	Course All Ledges Combined	1.730	73.24	98.3	59	41.4	1.09	1.2
Cook											
Hanson LaGrange - Material Service Federal	50312-02	9101 W 47th St	McCook	72.2-98.7M Level 8 and 9	10.83	88.94	91.6	54.8	38.2	0.96	1.05
Hanson Material Service - Thornton Quarry	50312-04	322 S William St	Thornton	All Ledges Aglime	12.55	102.51	64.3	25.7	17.5	1.45	1.36
Vulcan Materials - Main Plant	50312-78	5500 Joliet Rd	McCook	MWRD Various Ledges	11.63	96.73	76	36.4	25	1.2	1.21
Vulcan Materials- Bartlett FM-20 Stockpile	50312-90	2000 Vulcan Rd	Bartlett	1 & 2A	13.66	104.38	75.1	35.1	20.1	1.21	1.14
Douglas											
Tuscola Stone Co	50412-01	1199 E US 36	Tuscola	Mixed Ledges	10.88	93.78	81.9	47.3	32	1.04	1.1
DuPage											
Vulcan Materials - Barbers Corner	51972-10	351 Roger Rd	Bolingbrook	20-40	11.63	97.52	68.2	34.2	24	1.27	1.28

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Greene											
Twin River Stone-Kane Plant	50612-02	74 West Kane Rd	Kane	Various Ledges	.719	91.93	74.6	37.2	23.7	1.29	1.27
V.H. Callender - 3 Miles Southwest of Glasgow	51712-01	24 Hillview Rd	Winchester	Ledge 1	1.273	94.45	81.3	47.4	33.7	1.02	1.09
Grundy											
LafargeHolcim	50632-01	2998 County Road 7000 North	Morris	0-38.1M	4.41	97.15	100	75.3	56.6	0.67	0.8
Hancock											
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	Common Stockpile	3.164	65.62	76.7	47.7	38.3	1.41	1.6
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	3.7m-18.3m ldg#1b	1.441	64.8	95	55.9	38.8	1.29	1.4
Gray Quarries	50672-03	700-798 S 2nd St	Hamilton	63.4-75.6m Ldge #7	4.28	97.22	95.8	57.9	45.4	0.8	0.92
Hardin											
Hastie Mining	50692-04	RR1 Box 55,	Cave-In-Rock	Various	1.45	89.48	79.9	38.7	24.7	1.27	1.25
Lafarge Holcim - HC3	50692-09	RR1 Box 128	Golconda	Various	1.173	92.02	75.5	40.4	25.6	1.22	1.23
Iroquois											
Prairie Materials - east side of the truck scale - regular grinds	50752-01	2744 N 200 E Rd	Ashkum	A/B ledge material Blast GPS N40 54.408 W088 05.411	2.87	94.32	90.1	40	21	1.2	1.12
Jackson											
Kinkaid Stone Company	50772-02	4287 Kinkaid Stone Rd	Ava	0.0-8.2m course fine aglime	1.961	86.96	74.3	34.2	22.1	1.42	1.38

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Jackson cont.											
Kinkaid Stone Company	50772-02	4287 Kinkaid Stone Rd	Ava	13.8-16.8M	1.02	94.13	95.8	46.7	28.5	1.03	1.03
Jersey											
Calhoun Quarry - East	50832-03	25840 Eldred Rd	Fieldon	Various Ledges	2.47	97.91	97.4	57.7	39.1	0.84	0.91
JoDaviess											
Civil Materials - Youngbluth	50852-67	10216 Chelsea Rd	Stockton	Ledge 001, 0.0-15.2m East Face	12.44	103.07	82	42.7	30.6	0.99	1.04
Civil Materials - Virtue	50852-06	1450 N Ferry Landing Rd	Galena	Ledge 002, 18.3-30.5m West Face	5.4	95.18	75.6	42.1	30.5	1.1	1.17
Civil Materials - Schultz	50852-66	2415 Schapville Rd	Schapville	Ledge 001, 0.0-15.2m	12.31	104.15	96.1	56.8	40.9	0.78	0.86
Fischer Excavating - Ehler	50852-93	8022 Stagecoach Trail	Galena	Ledge 002, +6.1-15.2m	11.97	98.47	96.9	79.8	62.9	0.63	0.78
Louie's Aggregate Co - Hahn, Galena	50852-90	4297 W Guildord Rd	Galena	Ledge 002, 0.0-13.7m	11.98	99.31	83.6	48.4	34.8	0.94	1.02
Johnson											
Shawnee Stone	50872-02	8395 State Rte 37 S	Cypress	Multiple Ledges	1.48	95.3	87.9	46.9	30.1	1.03	1.05
Southern Illinois Stone Co	50872-03	3760 State highway 37 North	Goreville	22.9-31.7M	1.45	86.73	75	39	27.6	1.28	1.32
Kane											
LafargeHolcim - Conco	50892-01	105 Conco St	North Aurora	All Ledges	7.24	103.42	99.6	78.5	58.2	0.62	0.74
LafargeHolcim - Fox River Quarry	50892-02	1310 S IL Rt 31	South Elgin	Level 1 Bench & Breast	13.18	101.35	72.3	44.9	32	1.01	1.08

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Kankakee											
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	11.52	95.14	81.6	36.2	24.7	1.2	1.19
Vulcan Materials - North of plant, barn lime	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1/0.0-39.0	12.28	95.95	85.8	44.9	32.7	1.01	1.08
Vulcan Materials - Across road, large pile - fine grinds	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1/0.0-39.0	12.09	93.51	81.4	41	30.5	1.11	1.16
Vulcan Materials - Across road, large pile - rescreened grinds	50912-02	1277 Co Hwy 28	Kankakee	Ledge 1/00.0-39.0	12.18	97.04	78.1	41.8	31.4	1.06	1.13
Vulcan Materials - North of scale house on west side of pit ramp	50912-04	6141 N State Rte 50	Manteno	Ledges DE, E2 & F - combined	12.09	100.81	75.1	35.9	24.6	1.17	1.17
Kendall											
Central Limestone	50932-01	16805 Quarry Road	Morris	0-130' (0-39.6M) Various Locations	11.18	98.16	92.5	53.6	37.9	0.88	0.95
LafargeHolcim - Kendall Quarry	50932-03	15194 Illinois Route 47	Elburn	Various	11.18	93.34	98.9	67	45.5	0.79	0.89
LaSalle											
LafargeHolcim - Utica	50992-02	North 27th Rd	Utica	Various Locations 11.0M-27.4M	10.26	76.85	84.7	49.7	37.6	1.17	1.3

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LaSalle cont.											
Riverstone Group - Troy Grove (MC46)	50992-01	539 Rt 52	Troy Grove	Various Ledges (fine)	11.52	99.59	83.4	46.7	37.2	0.93	1.03
Riverstone Group - Vermilion	50992-04	2273 North IL 178	Oglesby	Various Ledges	4.58	100.57	92.2	54.9	39.6	0.84	0.92
Western Aggregates	50992-05	764 East US Route 52	Utica	Various	10.75	86.26	84.4	51.8	41.9	0.99	1.14
Lee											
Civil Materials - Palmyra	51032-73	217 Palmyra Rd	Dixon	Ledge 006	12.29	104.39	76.9	42.2	30.1	1	1.06
Renner Quarries - Robbins (Amboy)	51032-04	902 Robbins Rd	Amboy	(004) 19.8m-27.4m (65'-90')	1.28	101.67	85.6	39.1	27.6	1.05	1.07
Livingston											
Prairie Materials - Ocoya Quarry	51052-09	11225 N 1600 E Rd	Pontiac	6.7 M Face	.984	78.46	96.6	58	42.7	1.01	1.13
Valley View Industries - Blended Lime	51052-19	18380 E 1100 N Rd	McDowell	4.0 m Face	.91	93.62	92.7	50.7	34.7	0.96	1.02
Valley View Industries - Milled Lime	51052-19	18380 E 1100 N Rd	McDowell	4.0 M Face	.895	94.42	98.9	71	51.2	0.74	0.85
Madison											
Bluff City Minerals - East Aglime Stockpile	51192-02	4007 College Ave	Alton	2T-27, Ledges 1 & 2	1.72	93.08	61.2	33.2	24.7	1.36	1.4
Bluff City Minerals - Hi Cal Pel - Pellet Dome	51192-04	4007 College Ave	Alton	2T-27, Ledges 1 & 2	1.14	90.91	99.2	89.7	76	0.6	0.79
Twin Rivers Stone - Godfrey Plant	51192-01	9434 Godfrey Rd	Godfrey	Various Ledges	6.32	87.82	87.9	59	48.2	0.88	1.04

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McDonough											
Central Stone - Tenn, CS53	51092-03	5533 E 400 St	Colchester	L1 & L2, Aglime 002FA00	2.007	75.17	93.7	59.5	41.6	1.07	1.18
Menard											
Hanson Material Service - Yard 17	51292-02	25142 Quarry Avenue	Athens	Combined Ledges	2.344	83.96	84.7	39.2	25.4	1.31	1.3
Monroe											
Columbia Quarry #7	51332-04	5440 Quarry Rd	Waterloo	24.4M Ledge 1- 3	.852	96.32	91.1	45.8	30.7	1.01	1.04
Montgomery											
Hanson Material Service Yard 58 (Nokomis)	51352-01	22283 Taylorville Rd	Nokomis	Combined Ledges	.51	94.69	93.9	45.2	27.4	1.06	1.05
Hanson Material Service Yard 58 (Nokomis)	51352-04	22283 Taylorville Rd	Nokomis	Combined Ledges	.568	93.81	100	99.4	95.7	0.51	0.72
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges/Course Ag Lime	.454	94.99	77.1	33.9	21.1	1.31	1.25
Nokomis Quarry	51352-03	23311 Taylorville Rd	Nokomis	Combined Ledges/Fine Grind Ag Lime	.598	95.21	97.9	33.2	16.8	1.28	1.13
Ogle											
Eagle Creek Quarries - Galena Trail (Polo)	51412-18	2010 S Galena Trail	Polo	(003) 8.5M- 19.8M (27.9'- 64.9')	12.91	99.19	91.2	83.2	57	0.65	0.77
Macklin Inc - Rochelle	51412-68	6089 S Dement Rd	Rochelle	(007) 0-39.0M (0-128')	11.95	97.68	84.7	36.8	26.3	1.13	1.14

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Ogle cont.											
Martin & Company - Limekiln	51412-47	1720 N Limekiln	Oregon	004, +1.0- 16.8m (+3'-55')	11.93	101.17	68.6	28.6	19.2	1.37	1.3
Renner Quarries - Dixon	51032-76	870 Renner Rd	Dixon	008 North	12.24	102.17	79	43.3	28.4	1.03	1.06
Rogers Ready Mix - Aschelford	51412-32	8503 N Barker Rd	Byron	Ledge 006	11.64	98.53	70.2	27.9	19.5	1.4	1.33
Rogers Ready Mix - Aschelford	51412-32	8503 N Barker Rd	Byron	(003) 0-15.2m	9.63	76.47	74.8	35.7	25.6	1.53	1.55
Steve Benesh and Sons Quarry - Oregon	51412-72	3923 N River Rd	Oregon	004 Northside	10.38	88.74	85.5	57.1	49.2	0.88	1.06
Wagner Aggregates - Fairdale	51412-92	20855 East IL Rt 72	Fairdale	Various	13.07	104.79	69.6	34.3	22.3	1.2	1.18
Pike											
Central Stone - Kinderhook	51492-05	218th Street	Kinderhook	Common Stockpile	.612	92.33	97.9	62	42.2	0.85	0.93
Central Stone - Chambersburg	51492-43	3744E Co Hwy 21	Chambersburg	Common Stockpile	1.19	76.42	91.8	50.7	35.6	1.17	1.25
Central Stone - Fesler	51492-41	312th Ave and Township Rd 92	Barry	Common Stockpile	.613	86.09	97.2	52.9	35.3	1.01	1.07
Central Stone Co	51492-04	26176 487th St	Pittsfield	Ledge 2	.943	75.24	78	46.4	33.2	1.3	1.4
V.H. Callender - Perry/Junction Quarry	51492-42	37442 412 Street	Chambersburg	Ledge 1-4	1.52	82.41	68.1	40.8	29.5	1.33	1.42
V.H. Callender - Valley City Quarry	51492-02	310810 Quarry Rd	Griggsville	Ledge 3	2.068	89.48	86.4	52.9	38	0.98	1.08
Randolph											
Mississippi Lime - Prairie Du Rocher	51572-04	7899 Bluff Rd	Prairie Du Rocher	8.5M Ledge 1	.242	98.84	81.1	39.2	25	1.13	1.12

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Rock Island											
RiverStone Group	52202-91	2700 New Liberty Rd	Stockton	Various Ledges	11.97	96.14	94.9	54.6	43.9	0.84	0.96
RiverStone Group	51612-31	601 US Rt 67 North	Milan	Various Ledges (Dolomite)	12.15	101.27	87.7	48	36.4	0.9	0.98
RiverStone Group	51612-23	2721 248 St North	Hillside	Various Ledges	12.36	99.05	96.5	54	32.9	0.9	0.93
RiverStone Group	50732-12	1069 North Broadway St	Colona	Various Ledges	12.57	104.9	84	29	16.4	1.28	1.15
RiverStone Group	51612-31	601 US Rt 67	North Milan	Various Ledges (Limestone)	5.168	79.84	74.5	45.9	36.3	1.21	1.35
RiverStone Group	52202-16	18965-300th St	Long Grove	Various Ledges	11.8	99.74	74.4	45.7	37.4	0.96	1.08
Shelby											
Brush Creek Quarry	51732-01	2371 County Hwy 6	Mode	Piekish Pit	1.058	36.83	56.5	28.8	20.9	3.86	3.83
St. Clair											
Casper Stolle Quarry - Lot 1	51632-05	2901 Stolle Road	Dupo	Ledge 12 25ft	1.59	94.55	78	48.4	37	0.99	1.1
Columbia Quarry #9	51632-09	100 Industrial Dr	Dupo	9.9m Ledge 1-5	2.19	92.59	86.4	46.6	32.5	1.04	1.1
Falling Springs Quarry - Lime Shed	51632-03	2901 Stolle Rd	Dupo	Ledge 1B 110ft	2.21	92.05	84.6	37.6	24.6	1.22	1.2
Stephenson											
Civil Materials - Monte	51772-27	475 St James Rd	Orangeville	Ledge 001 0.0-15.2M	12.6	103.64	92.6	57.4	39.7	0.8	0.88

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Stephenson cont.											
Civil Materials - Offenheiser	51772-83	14180 Goldmine Rd	Pearl City	Ledge 001, 0.0- 15.2m	12.01	102.49	94.1	50.2	34.7	0.88	0.93
Civil Materials - Dwyer	51772-28	1708 S Hollywood Rd	Freeport	Ledge 009, 4.6- 30.5m	12.37	102.60	66	41	30.2	1.07	1.15
Doc's Excavating Inc - Tessendorf	51772-04	6285 IL Rt 73 North	Lena	Ledge 007, +3.0-15.2M west face	12.51	102.32	67.3	33.8	23.5	1.22	1.23
Doc's Excavating Inc - Tessendorf	51772-04	6285 IL Rt 73 North	Lena	Ledge 002, 15.2-21.9m	11.3	95.39	82.9	54.5	41.1	0.89	1.01
Fischer Excavating - Winnesheik	51772-51	1570 East Winnesheik Rd	Freeport	Ledge 001 0.0- 9.1M	12.46	96.49	82.4	51.7	38.2	0.92	1.03
Union											
Anna Quarry Inc	51812-02	1000 Quarry Road	Anna	0.0-10.7m	11.76	91.84	83.3	39.4	23.6	1.23	1.19
Shawnee Stone	51812-03	1275 Jonesboro Quarry Rd	Anna	multiple ledges	.55	99.71	96.7	77.7	58.4	0.65	0.78
Vermilion											
Hanson Material Service - Fairmount Quarry	51832-01	3706 Catlin Homer Road	Fairmount	Northcut - 20 foot ledge	.369	96.91	99	57	36.8	0.86	0.92
Warren											
Coots Materials - Monmouth Quarry	51872-02	2351 6th St	Monmouth	Keokuk/Burling ton Ledges Aglime 002FA00	4.275	81.1	91.6	68.1	57.1	0.84	1.04
RiverStone Group - Valley Quarry	51872-01	772 175th Street	St Augustine	60'-70' Aglime 002FA00	2.408	88.99	96.4	65.1	47.9	0.83	0.95

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Whiteside											
Alliance Materials - Siers	51952-86	28601 Pilgrim Rd	Sterling	(006) 21.3- 29.3m (70'-96')	13.29	104.28	63	33.1	23.3	1.23	1.24
Wendling Quarries - Garden Plain	51952-64	Garden Plain Rd	Garden Plain	Full Face	12.12	101.52	79.8	46.4	36.6	0.93	1.03
Will											
LafargeHolcim Joliet - Rockdale	51972-15	2509 Mound Rd	Joliet	All Ledges	12.25	103.97	99.2	69.9	50.5	0.67	0.78
Vulcan Materials - Bolingbrook	51972-09	22933 11th St	Plainfield	All Ledges	5.177	99.35	73.8	41.7	30.4	1.07	1.13
Vulcan Materials - Laraway	51972-19	595 W Laraway Rd	Joliet	0-90	11.19	89.79	75.3	38.4	27.7	1.24	1.28
Winnebago											
3 S Construction	52012-02	11184 N Main	Rockton	005	12.11	99.92	87.6	49.9	34.9	0.92	0.98
Northern Illinois Service - Bedrock	52012-73	6799 Swanson Rd	Roscoe	0136	12.18	98.57	78.6	47	33.2	0.99	1.06
Northern Illinois Service - Blacks	52012-80	11200 N Main Rd	Rockton	002	12.46	102.6	82	45.8	30.2	0.98	1.02
Rogers Ready Mix - Mulford	52012-31	5510 S Mulford Rd	Rockford	Ledge 002 (12.2-26.5M)	12.48	102.19	70.9	45.5	29.6	1.03	1.08
Georgia											
Imerys Carbonates USA, Inc	77000-50	2314 Whitestone Rd	Talking Rock	Prolime	5.357	94.92	100	59	46	0.8	0.92
Imerys Carbonates USA, Inc	77000-50	2314 Whitestone Rd	Talking Rock	Lime Rite	5.096	95.47	100	57.1	45.6	0.81	0.93

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Georgia cont.											
Imerys Carbonates USA, Inc	77000-50	2314 Whitestone Rd	Talking Rock	DECO Lawnlime Talking Rock Georgia	3.743	97.12	100	70.5	47.1	0.74	0.83
Iowa											
RiverStone Group	52202-10	400 Territorial Rd	Le Claire	Various Ledges	11.97	97.56	85.5	32.9	24.2	1.19	1.18
RiverStone Group	52202-10	400 Territorial Rd	Le Claire	Various Ledges HI-G (and did previously)	12.08	95.44	100	99.9	99.1	0.49	0.71
Wendling Quarries - Shaffton	52202-06	2911 Hwy 67	Camanche	Various Ledges (16-19) 35'-40'	12.31	103.68	88.4	48.8	34.3	0.89	0.95
Indiana											
Bloomington Crushed Stone	52102-07	1100 North Oard Road	Bloomington	Ledges 1-6	.383	97.53	93.8	64.3	29.7	0.89	0.88
CalCar Quarries	52102-10	860 East US Hwy 150	Paoli	Ledges 1-16	1.401	96.86	86.5	48.4	31.3	0.99	1.03
Cave Quarries Inc - Cave Quarry	77000-97	1156 N 425 W	Paoli	301-1502	1.551	93.67	97	51.5	34.2	0.95	0.99
Hanson	52102-37	101 Agrico Lane	Seymour	Various	3.214	89.03	98.8	90.6	72.8	0.62	0.8
Indian Creek Quarry	52102-38	12587 Mount Olive Rd	Williams	INDOT Ledges 601-610 68 foot bench	2.194	94.24	97.1	45.7	28.4	1.04	1.03
Lincoln Park Stone - Putnamville Quarry	52102-30	995 W US40 Putnamville	Indiana	1-3	.159	94.8	72.3	38	25.9	1.22	1.24

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Indiana cont.											
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	.445	83.31	91	50.9	34.4	1.09	1.16
Mulzer Crushed Stone - Abydel	52102-29	3880 W Co Rd 150 N	West Baden Springs	Various	.261	93.7	96	52.3	31.2	0.98	0.99
Mulzer Crushed Stone - Cape Sandy	52102-18	19925 Alton Fredonia RD	Leavenworth		3.902	92.47	95.6	54.9	37	0.92	0.99
Mulzer Crushed Stone - Temple Quarry	52102-11	2785 E Temple Rd	English	Various Ledges	3.680	93.69	92.6	48.3	31.7	1	1.04
Mulzer Crushed Stone - Tower Quarry	52102-14	7172 S Tower Rd	Leavenworth	Various Ledges	.524	98.08	94.6	53.1	32.8	0.92	0.95
Mulzer Crushed Stone Charlestown Quarry - Evansville Materials	52100-49	900 NW Riverside Drive	Evansville	Various	9.86	97.91	80.4	44.6	33.7	1	1.08
Newton County Stone Company (Rogers Group) - South of the main entrance gate	52102-01	235 E US Highway 24	Kentland	Area 7 Levels ABC Ledges 4-5- 6 (fine grinds)	13.09	104.41	93.2	55.6	39.2	0.8	0.88
Newton County Stone Company (Rogers Group) - South of the main entrance gate	52102-01	235 E US Highway 24	Kentland	Area 7 Levels ABC Ledges 4-5- 6	13.29	103.44	82.9	37.8	25.3	1.08	1.08
Rogers Group - Mitchell Crushed Stone	52102-04	3020 SR60 West	Mitchell	Ledges 3-7	.770	94.96	89.2	49.3	34	0.97	1.03
US Aggregates - The Andersons Inc	52102-37	101 Agrico Lane	Seymour	Ledges 1&2	10.65	105.51	99.6	97.3	92	0.46	0.65

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Indiana cont.											
Whitesville Mill Service	52103-22	4537 S Nucor Rd, Box 314	Crawfordsville		5.75	97.04	96.7	58.7	36.8	0.86	0.91
Missouri											
APAC Brickeys Quarry	52302-70	13588 Brickeys Rd	Bloomsdale	Various Ledges	.183	98.47	93.7	54.2	36.7	0.88	0.94
Bussen Quarries - Antire Quarry	52302-65	6800 Bussen Antire Rd	Eureka	Ledge 7-27, 250', stockpile #3, blended	2.31	93.52	96.6	79	69.1	0.64	0.83
Bussen Quarries - Antire Quarry	52302-65	6800 Bussen Antire Rd	Eureka	Ledge 7-27, 250', stockpile #2, Grasan Lime	2.91	95.09	94.2	63.9	49.9	0.77	0.91
Bussen Quarries - Antire Quarry	52302-65	6800 Bussen Antire Rd	Eureka	Ledge 7-27, 250' Stockpile #1, Ultra Fine Lime (UFL)	6.765	92.64	100	100	99.4	0.5	0.73
Bussen Quarries - Bussen- Koch Quarry @ Jefferson Barracks	52302-07	5000 Bussen Rd		Ledges 5-21, 140'	1.539	94.19	94.6	49.2	33.3	0.97	1.02
Central Stone - Huntington	52302-04	46445 Sweetbay Lane	Huntington	Common Stockpile	.528	91.77	99.3	79.2	53.9	0.72	0.83
Central Stone - Taylor	52302-46	7040 C Rod 344	Taylor	common stockpile	7.038	87.65	99.4	79.6	62.9	0.7	0.87

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Missouri cont.											
Central Stone Co 0931 Fort Belle - Argo/Aglime	52302-53	14200 Lewis & Clark Blvd	Florissant		2.31	90.61	100	100	98	0.52	0.74
Central Stone Co C531 Fort Belle - Argo/Aglime	52302-53	14200 Lewis & Clark Blvd	Florissant	Ledges 3-9	1.699	87.79	100	100	98.2	0.53	0.77
Heartland Materials	77000-99	1965 County Road 601	Jackson	Multiple	1.73	98.24	99.8	75.4	51.6	0.69	0.8
LafargeHolcim - Hwy 51	52302-41	521 Quarry Lane	Perryville	19.5m ledge 2+3	3.239	93.41	90.7	55.9	43.1	0.87	0.99
Mississippi Lime	52302-08	16147 US Highway 61	Ste Genevieve	30.0 M Underground, R-2 soil conditioner	.163	94.71	100	100	99.5	0.49	0.71
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0M Underground, R-1 soil conditioner	.182	94.42	100	80.5	30.8	0.82	0.8
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0 M Underground, Code L	.215	91.73	100	88.5	59.8	0.66	0.79
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0M Underground CODE H	.264	126.71	100	97.5	65	0.45	0.54
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0M Underground Calcium Carbonate	.111	98.97	100	99.8	98.7	0.47	0.68

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Missouri cont.											
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0M Underground R-0 Soil Conditioner	.104	100.1	65.1	43.1	28.8	1.1	1.16
Mississippi Lime	52302-08	16147 US Highway 61	St. Genevieve	30.0 M Underground Lime Hydrated	.248	131.95	100	99.6	98.5	0.35	0.51
Simpson Materials Company - Simpson Barnhart Quarry	52302-51	860 Sulphur Springs Rd	Imperial	Kimswick Ledge 1-5 84'	.171	100.32	98.9	69.3	49.8	0.71	0.81
Tower Rock Stone	52302-39	19829 Lower Frenchman Rd	Genevieve	Various Ledges	.181	98.34	95.1	58	36.6	0.86	0.91
Wayne B Smith	52302-28	10415 MO-79	Louisiana	Common Stockpile	.673	98.3	95.5	59.6	41.2	0.82	0.9
Wisconsin											
Lannon Stone Product	52402-64	N52 W23096 Libson Rd	Sussex	0-15.2M p3	12.28	101.62	60.8	34.3	27.8	1.19	1.27
Little Limestone	52402-86	8609 E Little Ln	Clinton	12.2-18.3M	12.07	93.79	97.7	76.8	54.6	0.71	0.83
Payne & Dolan - Franklin	52402-99	G211 Rawson Ave	Franklin	Combined Ledges	11.76	90.64	75.4	37.9	26.8	1.24	1.27
Payne & Dolan - Racine	52402-01	1501 Three Mile Rd	Racine	Various	11.35	89.19	74	37.8	34.9	1.16	1.31
Payne & Dolan - Waukesha	52402-05	N250 W233 Hwy F	Waukesha	Combined Levels	13.12	102.52	63.9	33.8	25	1.21	1.25