

State of Illinois

Department of Agriculture

Philip Nelson, Director



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# Illinois Voluntary Limestone Program **PRODUCER INFORMATION**

**AUGUST 2015 Edition**

Produced by:

Illinois Department of Agriculture

Illinois Department of Transportation



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.

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

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

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

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

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	
	= 1.26
36.65	

**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:

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

## LIMESTONE PROGRAM PRODUCER INFORMATION - 2015

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County	Producer Name	Location	Stockpile or Ledge Location	% Calcium	% Magnesium	% CCE	% Pass #8	% Pass #30	% Pass #60	1 yr correction factor	4 yr correction factor
ADAMS	CENTRAL STONE-LORAINE	2 MILES SOUTH OF LORAINE IL	COMMON STOCK PILE	27.72	2.45	79.89	91	56.7	35.8	1.08	1.15
ADAMS	CENTRAL STONE-MARBLEHEAD	NE EDGE MARBLEHEAD,IL	COMMON STOCK PILE	37.23	1.09	94.31	86.8	53.4	38.3	0.92	1.02
ADAMS	CENTRAL STONE-QUINCY	5 MILES EAST QUINCY,IL	COMMON STOCK PILE	27.29	1.8	85.03	91.3	56.7	40.1	0.98	1.08
BOONE	BEVERLY MATERIALS	BELVIDERE	0.0M - 15.2M	19.53	11.28	98.43	70.6	36.1	26.2	1.19	1.22
BOONE	CONSOLIDATED MATERIALS	IRENE	0.0M - 26.8M	20.45	11.46	99	79.5	37.6	25.5	1.14	1.15
BOONE	WILLIAM CHARLES CONSTRUCTION	1.5 MILES SOUTH OF US RTE 20 ON IRENE RD	1.8 M - 26.5 M	19.97	11.72	100.7	70.8	37	27.2	1.14	1.18
CARROLL	EAGLE CREEK QUARRY	1.5 MI NE OF MILLEDGEVILLE	+2.7 - 11.0 M	20.00	10.84	95.82	73.8	53.1	40.8	0.92	1.08
CARROLL	FISCHER EXCAVATING	1 MI N OF GEORGETOWN	+1.0 - 15.2 M E FACE	15.64	8.15	79.7	75.9	44.8	36	1.22	1.36
CARROLL	HDI QUARRY	1 MI NW OF LANARK	0.0 - 15.2 M SOUTH FACE	16.93	9.23	99.22	81.8	48	34.6	0.95	1.03
CARROLL	SAVANNA QUARRY INC	2 MI NW OF WACKER	0.0 - 31.1 M N FACE	19.89	11.07	98.54	74.1	41.3	30.5	1.08	1.14
CARROLL	WENDLING QUARRIES INC	2 MI W OF MT CARROLL	18.0 - 31.7 M	19.07	10.91	90.96	64	35.3	25.5	1.34	1.38
CLARK	CASEY STONE CO	CASEY - 2.5 MI S	FULL FACE	31.72	0.39	89.09	84.3	52.3	36.9	1	1.1
CLARK	MID-ILLINOIS QUARRY	CASEY-2 MI. S.E.	FULL FACE	29.43	0.99	84.71	98.2	48.8	31.7	1.09	1.12
CLARK	QUALITY LIME COMPANY	14915 N QUALITY LIME RD, MARSHALL	WEST TOP	19.24	11.18	87.54	90.4	45.4	30.9	1.11	1.15
COLES	CHARLESTON STONE COMPANY	CHARLESTON	NORTHEAST TOP REGULAR PRODUCTION	19.58	11.58	84.05	85.1	44.2	30.7	1.19	1.24
COLES	CHARLESTON STONE COMPANY	CHARLESTON	NORTHEAST TOP FINE LIME	13.44	7.09	88.84	98.5	71.9	48.5	0.8	0.9
COOK	HANSON MATERIAL SERVICE	9101 W 47TH MCCOOK IL	VARIOUS LEDGES	17.61	10.35	87.28	74.4	35.6	24.5	1.36	1.36
COOK	HANSON MATERIAL SERVICES	322 S WILLIAMS, THORTON IL	COMBINED LEVEL 2&3	21.00	12.14	100.1	84.1	43.9	31.4	1	1.05
COOK	HANSON MATERIAL SERVICES	322 S WILLIAMS, THORTON IL	COMBINED LEVEL 2&3 AG LIME	21.07	11.96	99.97	98.9	46.9	32.1	0.93	0.96
DEKALB	VULCAN MATERIALS-DEKALB	15622 BARBER GREEN ROAD	VARIOUS LOCATIONS	18.08	10.1	99.12	94.3	57.9	41	0.82	0.91
DEKALB	VULCAN-SYCAMORE	5 MILES N OF SYCAMORE-1.5 MILES W OF RTE 23	VARIOUS LEDGES	20.22	11.49	97.22	80.3	41.9	31	1.06	1.12
DOUGLAS	TUSCOLA STONE	1199 E US 36, TUSCOLA	MIXED LEDGES	18.99	10.71	91.66	79.7	44.8	32.3	1.09	1.16
DUPAGE	VULCAN MCCOOK	5500 W JOLIET RD MCCOOK IL 60525	VARIOUS LEDGES	19.35	11.45	95.37	72.6	37.3	28.4	1.18	1.24
GREENE	KIMATERIALS INC	KANE 3 MILES WEST	VARIOUS LEDGES	24.39	2.81	85.73	74.7	43.1	31.7	1.2	1.29

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Grouped by county where product is available (Illinois Counties then surrounding states)

County	Producer Name	Location	Stockpile or Ledge Location	% Calcium	% Magnesium	% CCE	% Pass #8	% Pass #30	% Pass #60	1 yr correction factor	4 yr correction factor
GRUNDY	LAFARGE NA (AUX SABLE QUARRY)	MORRIS,IL	0-75' LEDGE	32.20	3.59	91.75	64.8	38.9	29.2	1.23	1.32
GRUNDY	LAFARGE NA (AUX SABLE QUARRY)	MORRIS,IL	0-75' LEDGE	31.88	3.26	93.18	97.5	61.8	45.3	0.82	0.93
HANCOCK	GRAY QUARRIES	WEST EDGE HAMILTON,IL	48.8M - 54.9M LDG#5	22.86	2.16	68.51	90.9	57.8	41.9	1.19	1.33
HANCOCK	GRAY QUARRIES	WEST EDGE HAMILTON,IL	COMMON STOCK PILE	24.84	1.97	67.35	79.2	47.3	35.3	1.41	1.55
HANCOCK	R.L. O'NEAL QUARRIES	3 MILES NW PLYMOUTH IL	0M - 12.2 M LDG#1	22.06	1.91	64.74	77	42.7	32.3	1.57	1.69
HANCOCK	R.L. O'NEAL QUARRIES	3 MILES NW PLYMOUTH IL	13.7 M - 44.8 M LDG #2 AND #3	28.86	1.68	84.77	91.9	56	39.3	0.99	1.09
HARDIN	HASTIE MINING	CAVE-IN-ROCK, IL	VARIOUS	30.43	1.03	86.82	72.3	35.8	24.3	1.38	1.38
HARDIN	LAFARGE HC #3	ROSICLARE,IL	VARIOUS	33.32	6.5	93.35	75.6	38.2	24.9	1.23	1.23
HENDERSON	CESSFORD CONSTRUCTION - BIGGSVILLE	BIGGSVILLE IL	KEOKUK & CEDAR FORK	22.56	2.92	83.31	87.3	58.9	45.3	0.95	1.1
HENDERSON	CESSFORD CONSTRUCTION - DALLAS CITY	DALLAS CITY IL	KEOKUK & BURLINGTON 120' FACE	22.43	2.74	73.13	78	47.8	36.6	1.28	1.43
HENRY	RIVERSTONE GROUP-CLEVELAND	1069 N. BROADWAY ST, COLONO	LEDGE 2-5	24.78	3.72	91.15	69.5	25.1	16.8	1.62	1.49
IROQUOIS	PRAIRIE MATERIAL	2744 N 200 EAST ROAD	REGULAR GRINDS/LEDGE A	28.07	2.17	89.35	92.8	45.5	31.4	1.08	1.12
JACKSON	KINKAID STONE	AVA IL	13.8-16.8 M FINE AGLIME	29.80	1.18	89.13	97.2	47.7	30.5	1.06	1.08
JACKSON	KINKAID STONE	AVA IL	13.8-16.8 M REGULAR AGLIME	30.19	1.41	88.62	73	30.7	20.6	1.47	1.42
JERSEY	CALHOUN QUARRY INC	FIELDON,IL	VARIOUS LEDGES	30.93	0.93	93.43	96.4	49.2	32.5	0.98	1.02
JODAVIESS	CONMAT INC	4 MILES NORTH OF STOCKTON	0.0-15.2 M E FACE	15.56	8.41	101.8	75.6	43.6	33.1	0.99	1.08
JODAVIESS	CONMAT INC	1 MI W OF ELIZABETH	2.5 - 22.3 M UPPER LEDGE	17.50	9.5	100.6	83	44.6	31.9	0.99	1.04
JODAVIESS	CONMAT INC	1 MI S OF GALENA	18.3 - 30.5 M	24.96	6.12	92.34	89.5	50.6	37.7	0.96	1.05
JODAVIESS	HDI QUARRY	0.5 MI NW OF PLEASANT VALLEY	9.1 - 14.6 M LOWER LEVEL	15.27	8.25	78.81	71.8	40.1	31.7	1.35	1.46
JODAVIESS	LOUIE'S AGGREGATE COMPANY	3.5 MI S W OF NORA	0.0 - 10.7 M SOUTH FACE	16.93	8.91	96.56	80.7	43	31.3	1.05	1.11
JODAVIESS	LOUIE'S AGGREGATE COMPANY	0.5 MI OF GUILFORD	0.0 - 13.7 M	19.35	11.17	95.57	83.7	43.5	30.9	1.05	1.1
JOHNSON	SHAWNEE STONE	4 MI S OF CYPRESS IL E SIDE IL 37	VARIOUS LOCATIONS	31.11	1.07	87.75	85.1	45.4	30.4	1.13	1.17
JOHNSON	SOUTHERN ILLINOIS STONE CO	4 MI S OF GOREVILLE IL	VARIOUS	24.97	2.23	72.1	51.2	19.2	13.2	2.57	2.29

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KANE	LAFARGE CONCO	NORTH AURORA	UNDERGROUND MINE	25.98	4.81	99.29	99.8	68.9	50.3	0.71	0.82
KANE	LAFARGE FOX RIVER	L1 BREAST FOX RIVER	L1 BREAST	19.87	11.04	99.65	68.3	39.3	28.4	1.13	1.19
KANKAKEE	PRAIRIE MATERIAL	8215 CO NO RTE 45/52	REGULAR GRINDS/LEDGE B	18.76	11.12	95.86	80.8	19.6	10.1	1.72	1.41
KANKAKEE	VULCAN LEHIGH	1277 S 7000 W RD	AGLIME	17.44	9.5	94.32	92.6	45	33.4	1	1.06
KANKAKEE	VULCAN MANTENO	6141 N STATE RTE 50	COURSE GRINDS/LEDGE F	19.41	11.11	92.17	72.7	31.8	22.1	1.38	1.35
KENDALL	CENTRAL LIMESTONE	3 MILES EAST OF LISBON	VARIOUS LEDGES AND LOCATIONS	21.24	11.28	101.8	88.8	51	34.9	0.89	0.95
KENDALL	LAFARGE NORTH AMERICA-KENDALL	1.5 MILES EAST OF SEC 20&29-T35N-R7E	VARIOUS LEDGES & LOCATIONS COARSE GES	20.30	10.89	97.71	92.9	54.3	37.7	0.88	0.95
KENDALL	VULCAN-LISBON	2.5 MILES EAST OF LISBON	VARIOUS LEDGES AND LOCATIONS	17.47	9.55	94.76	94.7	53.1	39.3	0.89	0.98
LASALLE	LAFARGE - UTICA	0.5 MILES SOUTH OF UTICA	VARIOUS LEDGES & LOCATIONS FINE GRIND	13.81	7.81	72.64	99.4	61.7	46.6	1.03	1.18
LASALLE	LAFARGE - UTICA	0.5 MILES SOUTH OF UTICA	VARIOUS LEDGES & LOCATIONS COARSE GRIND	15.62	8.97	78.34	80.8	51.3	37.2	1.16	1.28
LASALLE	RIVERSTONE GROUP - VERMILLION	2273 N IL 178 OGLESBY IL	VARIOUS LEDGES	25.05	2.59	81.68	92.9	64.7	49.6	0.9	1.05
LASALLE	RIVERSTONE GROUP	1/4 MILE EAST OF TROYGROVE (RTE 52)	VARIOUS LEDGES (COARSE LIME)	18.81	10.34	93.37	97.6	47.7	28.3	1.03	1.03
LASALLE	RIVERSTONE GROUP	1/4 MILE EAST OF TROYGROVE (RTE 52)	VARIOUS LEDGES (FINE LIME)	19.17	10.78	94.12	97.2	62.8	51.5	0.77	0.91
LEE	RENNER QUARRIES LTD	1.5 MILES SW OF AMBOY	004 19.8 M - 27.4 (65' - 90')	18.12	10.77	99.52	75.7	30	21.4	1.29	1.25
LEE	RENNER QUARRIES LTD	2.5 MILES WEST OF ELDERA	010 23.2 M - 32.9 M (76' - 108')	20.23	11.19	97.63	84.8	45.3	31.4	1.01	1.03
LIVINGSTON	PRAIRIE MATERIAL	OCOYA,IL	6.7 M FACE	26.67	0.95	77.03	96.8	62.2	48.3	0.97	1.12
LIVINGSTON	VALLEY VIEW INDUSTRIES	MCDOWELL IL	4.0 M LEDGE MILLED (FINE) LIME	30.59	0.73	86.39	98.1	65.4	47.5	0.85	0.97
LIVINGSTON	VALLEY VIEW INDUSTRIES	MCDOWELL IL	4.0 M LEDGE BLENDED LIME	28.82	0.74	80.56	98.2	70.4	54	0.85	1.01
LOGAN	HANSON MATERIAL SERVICE YARD 10	4 MILES WEST/SOUTHWEST OF LINCOLN	COMBINED LEDGES	28.39	1.01	79.03	68.7	44.6	36.5	0.52	0.74

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MADISON	BLUFF CITY MINERALS	BLUFF CITY MINERALS	HEADING 2Q 24 BENCH W-39	29.17	1.38	84.29	83.8	45.3	33.7	1.15	1.23
MADISON	BLUFF CITY MINERALS	BLUFF CITY MINERALS	HEADING 2Q 24 BENCH W-39	28.90	2.04	91.28	98.6	85.7	71.5	0.62	0.81
MADISON	KIMATERIALS INC	LOHR (GODFREY)	VARIOUS 1-5	22.39	4.67	85.13	89.7	59.2	46.7	0.91	1.06
MCDONOUGH	CENTRAL STONE-TENNESSEE	COLCHESTER IL	L 1 AGLIME 002FA00	30.72	0.98	89.6	85.4	51.1	34.1	1.03	1.1
MENARD	HANSON MATERIAL SERVICE YARD 17	25142 QUARRY AVENUE JUST NORTH OF ATHENS ON ROUTE 29 AT INDI	COMBINED LEDGES	33.70	0.34	91.37	95.7	44.9	28.2	1.08	1.08
MONROE	COLUMBIA QUARRY #7	2 MILES SOUTH OF WATERLOO IL	24.4 M LEDGE 1 - 3	30.63	2.81	91.15	93.7	62.3	45.4	0.84	0.96
MONTGOMERY	HANSON MATERIAL SERVICE	JUST OUTSIDE OF NOKOMIS IL ON TAYLORVILLE BLACKTOP	COMBINED LEDGES	33.16	0.42	91.05	94.3	44.7	28.3	1.09	1.09
MONTGOMERY	HANSON MATERIAL SERVICE	JUST OUTSIDE OF NOKOMIS IL ON TAYLORVILLE BLACKTOP	COMBINED LEDGES FINE GRIND	32.33	0.4	93.23	100	99.5	94.7	0.51	0.73
MONTGOMERY	NOKOMIS QUARRY	JUST OUTSIDE OF NOKOMIS IL ON TAYLORVILLE BLACKTOP	COMBINED LEDGES FINE GRIND AG LIME	33.00	0.63	91.2	81.3	35.7	21.4	1.08	1.08
MONTGOMERY	NOKOMIS QUARRY	JUST OUTSIDE OF NOKOMIS IL ON TAYLORVILLE BLACKTOP	COMBINED LEDGES	36.02	0.14	92.66	80.6	33.7	20.5	1.34	1.26
MONTGOMERY	PANA LIMESTONE	5 MILES OUTSIDE OF PANA	COMBINED LEDGES	32.03	0.47	88.54	88.3	43.1	27.7	1.16	1.17
OGLE	MACKLIN INC-ROCHELLE	2 MILES E OF ROCHELLE	007 0 - 39M (0-128')	18.02	10.24	94.17	75.3	31.4	22.5	1.33	1.31
OGLE	MARTIN MATERIALS	2 MILES N.W. OF OREGON IL	LEDGE 004 + 1.0 M - 16.8 M (+3'-55') SOUTH FACE	18.03	9.9	94.71	68.1	31.4	16.9	1.48	1.35
OGLE	ROGERS REDI-MIX & MATERIALS	NORTH EDGE OF BYRON IL	006 15.2 M - 27.0 M (49.9' - 88.6')	17.54	10.01	93.88	73.4	32.8	23.1	1.32	1.31
OGLE	STEVE BENESH & SONS QUARRY	5 MILES N OF OREGON IL	LEDGE 004 +2.1M - 15.2M (6.9' - 49.9') E FACE	19.20	9.37	92.9	87.1	55.1	45.6	0.87	1.02
OGLE	WAGNER AGGREGATES- FAIRDALE	2.5 MILES EAST OF MONROE CENTER	009 10.7 M - 22.3 M (35.1' - 73.2')	20.86	11.89	101.8	76.9	47.1	33.7	0.96	1.04

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PIKE	CENTRAL STONE	.75 MILES NORTH OF FLORENCE	COMBINED LEDGES	16.39	2.74	75.52	85.7	54.9	42.6	1.1	1.26
PIKE	CENTRAL STONE-CHAMBERSBURG	SW EDGE	COMMON STOCK PILE	22.85	1.26	65.62	89.9	54.2	39.2	1.3	1.43
PIKE	CENTRAL STONE-FESLER	2 MILES WEST BARRY,IL	COMMON STOCK PILE	32.23	0.46	88.56	89.3	54.8	39	0.96	1.06
PIKE	CENTRAL STONE-KINDERHOOK	1 MILE EAST OF KINDERHOOK IL	COMMON STOCK PILE	31.45	0.6	88.67	97.3	61.3	42.2	0.88	0.98
PIKE	CALLENDER CONSTRUCTION	3 MILES S.W. OF GLASGOW	LEDGE 1	33.44	0.66	94.35	76	41.4	28.7	1.14	1.18
PIKE	CALLENDER CONSTRUCTION	1.5 MILES S.W. OF VALLEY CITY	COMBINED LEDGES	32.24	0.43	87.04	76	38.2	24.6	1.33	1.32
PIKE	CALLENDER CONSTRUCTION	2 MILES NORTH OF PERRY	LEDGE 1 - 4	25.68	1.39	84.6	96.2	80.3	64.9	0.72	0.91
PIKE	CALLENDER CONSTRUCTION	3 MILES S.W. OF NEW HARTFORD	LEDGE 1	31.48	0.47	92	83.6	49.9	36	1	1.09
RANDOLPH	BLUFF CITY MINERALS	BLUFF RD,1 MILE N OF PRAIRIE DU ROCHER,IL	8.5 M LEDGE 1	34.81	0.32	95.31	71.6	38.6	24.9	1.22	1.23
ROCK ISLAND	RIVERSTONE GROUP-ALLIED	601 US RTE 67 N., MILAN	LEDGE 5 - 8 RED	13.32	7.1	71.28	98.2	88.2	81.5	0.75	1.02
ROCK ISLAND	RIVERSTONE GROUP-ALLIED	601 US RTE 67 N., MILAN	LEDGE 3 & 4 GRAY	19.84	11.54	99.83	90.4	47	29.9	0.98	0.99
ROCK ISLAND	RIVERSTONE GROUP-MIDWAY	2721 - 248th ST, HILLSDALE	LEDGES 1,2 & 3	19.84	11.13	97.81	94.2	49.9	31.8	0.95	0.98
SHELBY	BRUSH CREEK QUARRY	STEWARDSON-4.5 MI WEST	FULL FACE	10.41	0.67	27.05	76.8	45.2	34.7	3.61	3.97
ST CLAIR	CASPER STOLLE	DUPO IL 12	LEDGE 12	28.77	1.86	91.68	78.9	48.1	39.1	0.99	1.13
ST CLAIR	COLUMBIA QUARRY # 9	1 MILE WEST OF DUPO IL	9.9 M LEDGE 3-5	30.90	1.69	92.46	86.8	45.2	30.9	1.07	1.11
ST CLAIR	FALLING SPRINGS	DUPO IL	LEDGE 1B	27.85	2.12	89.62	80.3	37.6	27.2	1.23	1.26
STEPHENSON	CONMAT INC	1 MI E OF FREEPORT	15.2 - 30.5 M	19.95	11.1	96.4	77.6	38.8	26.6	1.16	1.17
STEPHENSON	CONMAT INC	1.5 MI SE OF ORANGEVILLE	0.0 - 15.2 M	18.11	10.38	100	82.1	50.7	34.3	0.93	1
STEPHENSON	CONMAT INC	3 MI W OF PEARL CITY	0.0 - 15.2 M N FACE	19.50	11	95.42	73.1	39.5	29.6	1.14	1.21
STEPHENSON	DOC'S EXCAVATING	0.5 MI NE OF LENA	+3.0 - 15.2 M W FACE	19.73	11.58	99.23	73	41.7	29.6	1.08	1.14
STEPHENSON	FISCHER EXCAVATING	4 MI NE OF FREEPORT	0.0 - 9.1 M N FACE	18.50	10.13	98.93	82.9	51.7	38	0.9	1
UNION	ANNA QUARRIES INC	ANNA,ILLINOIS	LEDGE 01611 110.8-123.9 M MIDWEST PIT	31.69	1.17	91.06	89	41	25.7	1.17	1.15
UNION	SHAWNEE STONE-JONESBORO	6 MI S OF JONESBORO IL	VARIOUS	33.92	0.32	94.32	96.5	71	50.8	0.74	0.86



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VERMILLION	HANSON MATERIAL SERVICE	2 MILES WEST OF FAIRMOUNT	NORTH CUT 15 LEDGE	33.39	0.32	92.75	98.3	52	32.8	0.97	1
WARREN	MONMOUTH QUARRY	MONMOUTH IL	KEOKUK/BURLINGTON LEDGES AG LIME 002FA00	27.88	3.9	92.76	89.2	62.2	47.7	0.82	0.96
WARREN	RIVERSTONE - VALLEY	772 - 175th ST, ST AUGUSTINE IL	60' LEDGE AG LIME 002FA00	30.60	1.96	89.66	95.7	64.6	46.5	0.83	0.95
WHITESIDE	ALLIANCE MATERIALS INC	1 MILE SE OF EMERSON	0 - 31.7 M COMBINED	16.51	8.71	89.64	77.1	44.1	33.5	1.11	1.21
WILL	ELMHURST CHICAGO STONE	351 ROYCE RD BOLINGBROOK IL	VARIOUS LEDGES	18.01	10.39	84.16	68	37.7	29.5	1.33	1.43
WILL	LAFARGE	JOLIET MOUND ROAD	UNDERGROUND MINE	21.30	11.65	99.51	95.7	65.7	45.1	0.76	0.85
WILL	MINING INTERNATIONAL	JOLIET PATTERSON ROAD	UNDERGROUND MINE	18.35	10.09	100.5	82	42	26.4	1.07	1.07
WILL	VULCAN MATERIALS BOLINGBROOK	BOLINGBROOK	UNDERGROUND MINE LEVELS 1 & 2	29.74	3.85	96.92	71.9	40.9	30.1	1.1	1.18
WILL	VULCAN MATERIALS LARAWAY	JOLIET	0 TO 90 FT EAST LEDGE	19.45	10.36	95.84	71.4	32.3	23	1.31	1.3
WILL	VULCAN ROMEOVILLE	ROMEOVILLE	VARIOUS LEDGES	24.61	9.72	100.7	79.2	45.7	32.3	0.99	1.05
WINNEBAGO	ROGERS REDI-MIX & MATERIALS	5510 S MULFORD RD ROCKFORD IL	1202 M - 26.5 M	18.44	10.53	100.6	70.1	41.6	27.8	1.1	1.14
WINNEBAGO	ROSCOE ROCK & SAND	2 MI SW SE 1/4 S27-T46N-R1E 12.8M-20.4M	12.8M-20.4M	16.41	9.61	96.46	89.5	47.8	36.5	0.94	1.03
WINNEBAGO	THREE S CONSTRUCTION	11159 N. Main, Rockton	LEDGE 004 19.2 - 28.3 M	17.69	9.76	98.56	92.9	56.3	40.8	0.84	0.93

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INDIANA	CAVE QUARRIES INC	PAOLI - 4 MI WEST	LEDGES 301 - 1502	32.34	1.1	87.8	97.9	48.8	29.5	1.08	1.08
INDIANA	CAVE QUARRIES INC	PAOLI - 1.5 MI EAST	1 - 16 LEDGES	34.55	1.73	95.57	91.5	52.3	35.1	0.93	0.99
INDIANA	LEVY CO	VALPARAISO	SPLIT	21.82	5.15	70.31	98.9	81.2	27.6	1.14	1.07
INDIANA	LINCOLN PARK STONE	PUTTAMVILLE, IN 995 W RT 40 GREENCASTLE, IN 46135	L 1 - 6	31.24	1.13	89.76	70.7	31.6	22.6	1.42	1.4
INDIANA	MARTIN MARIETTA	2 MI N OF CLOVERDALE S25-T13N-R4W	58' FACE-WEST PIT,NORTH FACE; LEDGES 101-402	31.69	0.14	86.15	81.7	39.4	28.8	1.24	1.28
INDIANA	MULZER CRUSHED STONE	ENGLISH - 3 MI EAST	LEDGE 6A	32.02	2.81	93.91	93.9	52.4	35.1	0.94	1
INDIANA	ROGERS GROUP-BLOOMINGTON	BLOOMINGTON - 5 MI. WEST	LEDGES 4 - 6	31.43	2.64	91.61	89.2	48.4	33.6	1.02	1.08
INDIANA	ROGERS GROUP-MITCHELL CRUSHED STONE	MITCHELL-7 MI WEST	LEDGE 3-7	31.91	0.51	93.6	88	42.1	26.8	1.12	1.12
INDIANA	WHITESVILLE MILL SERVICE	4 MI SOUTHEAST OF CRAWFORDSVILLE	PRODUCED FROM STEEL SLAG	21.20	5.75	97.64	96.2	53.8	34.4	0.9	0.94
IOWA	RIVERSTONE GROUP-LECLAIRE	400 TERRITORIAL RD, LECLAIRE	LEDGE 6 AG-LIME	17.25	10.15	101.9	81.3	49.3	37.1	0.9	1
IOWA	RIVERSTONE GROUP-LECLAIRE	400 TERRITORIAL RD, LECLAIRE	LEDGE 6 HY-G	17.29	10.04	102	99.3	98.5	96.8	0.46	0.67
IOWA	RIVERSTONE GROUP-MCCAUSLAND	18965 - 300th ST, LONG GROVE	LEDGE 4 MSA	20.53	11.55	99.67	79.6	48.4	39.8	0.91	1.03
IOWA	RIVERSTONE GROUP-MCCAUSLAND	18965 - 300th ST, LONG GROVE	LEDGE 4 AG-LIME	20.55	11.34	100.7	85.8	57.2	47.9	0.78	0.93
IOWA	WENDLING @ GARDEN PLAIN	1.5 MI NE OF ALBANY	VARIOUS	20.22	11.36	100.3	72.1	49.5	43.1	0.89	1.05
IOWA	WENDLING @ SHAFFTON	4 MI OF CAMANCHE IA ON RT 67	VARIOUS LEDGES & BEDS	19.89	11.12	99.93	88.7	48.8	36.2	0.91	0.99

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MISSOURI	APAC	3 MILES EAST OF HWY 61	VARIOUS LEDGES	37.10	0.18	93.62	95.8	61.7	44.5	0.82	0.93
MISSOURI	BUSSEN QUARRIES	KOCH RD ST LOUIS MO	VARIOUS	28.41	1.79	90.71	89.2	47.6	33.4	1.04	1.1
MISSOURI	BUSSEN QUARRIES	ANTIRE RD EUREKA MO	VARIOUS LOCATIONS	22.22	7.24	99.04	99.8	99.4	97.6	0.47	0.68
MISSOURI	CENTRAL STONE	HUNNINGTON,MO	COMMON STOCK PILE	32.49	0.21	90.33	98.8	76.3	52.4	0.74	0.86
MISSOURI	CENTRAL STONE FORT BELLE	14200 LEWIS & CLARK BLVD, FLORISSANT	VARIOUS LOCATIONS	27.53	1.52	81.88	100	99.9	97.7	0.57	0.82
MISSOURI	CENTRAL STONE-TAYLOR	SOUTH EDGE	COMMON STOCK PILE	31.28	0.88	86.26	98	59.5	39.7	0.94	1.01
MISSOURI	LAFARGE	PERRYVILLE QUARRY,HWY 51	19.5 M IDG 2+3	28.75	2.15	89.01	81.5	37.1	25.4	1.27	1.27
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	39.53	0.21	91.71	87.9	84.2	75.2	0.62	0.84
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	39.62	0.12	96.72	100	99.9	99.9	0.48	0.7
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	44.49	0.17	111.8	99.7	98.9	98.2	0.42	0.61
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	36.63	0.17	100.9	96.1	88	77.5	0.54	0.73
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	35.07	0.14	95.71	100	100	99.7	0.49	0.71
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	31.58	0.16	83.9	93.4	84.8	58.3	0.75	0.9
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	35.27	0.17	95.6	100	72.6	24.8	0.89	0.83
MISSOURI	MISSISSIPPI LIME COMPANY	2 MILES NORTH OF STE.GENEVIEVE,MO	30M UNDERGROUND	34.27	0.23	95.7	61.8	42.9	29.5	1.16	1.23
MISSOURI	TOWER ROCK STONE	STE. GENEVIEVE	VARIOUS LEDGES	31.94	0.86	98.3	97.5	63.4	39.5	0.81	0.87
MISSOURI	W.B.SMITH	SOUTH EDGE LOUISIANA MO	COMMON STOCKPILE	32.84	0.26	91.7	95.9	60.2	42.8	0.86	0.96
WISCONSIN	FRANKLIN AGGREGATE	6211 W RAWSON AVE FRANKLIN WI 53132	BENCH 2A GRID AS47	19.65	10.94	90.05	58.2	26.1	20.5	1.62	1.6
WISCONSIN	LANNON STONE	SUSSEX	0-50' I-45	19.37	11.23	98.87	55.9	25.8	18.9	1.53	1.49
WISCONSIN	LITTLE LIMESTONE	CLINTON WI 1 M NW	12.2 M - 18.3 M	17.26	9.95	96.13	79.5	61.4	50.3	0.8	0.97
WISCONSIN	PAYNE & DOLAN	RACINE WI	COMBINED LEDGES	19.71	11.09	93.18	69.4	35.4	25.3	1.29	1.31
WISCONSIN	WAUKESHA LIME	N250 W233 HWY F	LEDGE 7 GRID A542	20.41	11.65	98.69	70.2	33.8	25.7	1.22	1.25