

State of Illinois

Department of Agriculture

Robert F. Flider, Director



Illinois Voluntary Limestone Program **PRODUCER INFORMATION**

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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 |
|--------------------------|---------------|----------------|----------------|
| Step 1 | | | |
| Jones County Cr Stone | 85.9 | 35.2 | 21.4 |
| Weight Percent | | | |

| | | | |
|------------------------------------|------|------|------|
| Step 2 (Multiply by .01) | .859 | .352 | .214 |
|------------------------------------|------|------|------|

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 | |
| | = 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:

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

Limestone Analysis Report Summary

Producers grouped by County where product is available (Illinois Counties then surrounding states) - Samples L-001 – L-0159

| Producer Name | County | City Address Stockpile or Ledge Location | % Ca Results | % Mg Results | % CCE Results | Sieve 8 | Sieve 30 | Sieve 60 | Correction Factor | | Comment |
|------------------------------|-----------|--|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| CENTRAL STONE- LORAIN | ADAMS | LORAIN COMMON STOCKPILE | 25 | 2.46 | 80.75 | 85.10 | 50.10 | 34.70 | 1.14 | 1.23 | |
| CENTRAL STONE- QUINCY | ADAMS | QUINCY COMMON STOCKPILE | 25 | 2 | 82.80 | 91.10 | 58.30 | 40 | 1 | 1.10 | |
| CENTRAL STONE- MARBLEHEAD | ADAMS | MARBLEHEAD COMMON STOCKPILE | 25 | 2.95 | 89.07 | 97.30 | 44.60 | 37.10 | 1.01 | 1.10 | |
| WM CHAS. CONST.&MATERIALS | BOONE | BELVIDERE 1.8M-26.5M | 19 | 11.4 | 103.18 | 77.40 | 38.30 | 27.30 | 1.08 | 1.10 | |
| BEVERLY MATERIALS | BOONE | BELVIDERE 9.1M-15.2M | 19 | 11.46 | 101.30 | 91.40 | 54.80 | 36.30 | 0.86 | 0.92 | |
| QUALITY AGGREGATES LLC | BOONE | IRENE 0.0M-29.0M | 18 | 11.38 | 100.33 | 71.60 | 36.10 | 24.70 | 1.19 | 1.19 | |
| EAGLE CREEK QUARRY | CARROLL | MILLEDGEVILLE +2.7-11.0M. | 21 | 11.47 | 96.44 | 81.20 | 64.10 | 50.60 | 0.78 | 0.94 | |
| CONMAT INC | CARROLL | LANARK 0.0-16.8 M. NW FACE | 21 | 11.41 | 100.02 | 70.20 | 36.50 | 27.50 | 1.15 | 1.2 | |
| WENDLING QUARRIES INC | CARROLL | MT CARROLL 18.0-31.7+3.0-18.0 M. | 21 | 12.24 | 97.52 | 67.90 | 36.60 | 27.20 | 1.20 | 1.25 | |
| SAVANNA QUARRIES | CARROLL | WACKER 0.0 - 31.1 M. N. FACE | 19 | 11.27 | 98.77 | 75.40 | 42.20 | 30.70 | 1.06 | 1.12 | |
| PANA LIMESTONE | CHRISTIAN | PANA COMBINED LEDGES | 30 | 0.46 | 90.83 | 90.10 | 42.00 | 24.10 | 1.18 | 1.14 | |
| CASEY STONE COMPANY | CLARK | CASEY FULL FACE | 31 | 0.45 | 90.97 | 86.40 | 51.00 | 34.40 | 1.01 | 1.08 | |
| MID- ILLINOIS QUARRY | CLARK | CASEY FULL FACE WEST PIT | 31 | 0.36 | 86.98 | 98.70 | 46.80 | 28.80 | 1.10 | 1.10 | |
| QUALITY LIME | CLARK | EAST MARSHALL WEST LEDGE REG PRODUCTION THIS SAMPLE BEFORE NEW PRODUCTION OF FM 22 MATERIAL | 20 | 1.20 | 33.89 | 98.30 | 46.40 | 29.50 | 2.82 | 2.84 | |
| CHARLESTON STONE | COLES | CHARLESTON EAST LEDGE REG PRODUCTION | 32 | 1.50 | 68.24 | 99.30 | 51.40 | 31.70 | 1.33 | 1.35 | |

Limestone Analysis Report Summary

Producers grouped by County where product is available (Illinois Counties then surrounding states) - Samples L-001 – L-0159

| Producer Name | County | City Address Stockpile or Ledge Location | % Ca Results | % Mg Results | % CCE Results | Sieve 8 | Sieve 30 | Sieve 60 | Correction Factor | | Comment |
|-------------------------------|---------|---|--------------|--------------|---------------|---------|----------|----------|-------------------|-------|------------------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| CHARLESTON STONE | COLES | CHARLESTON EAST LEDGE FINE PRODUCTION | 23 | 0.47 | 91.13 | 99.40 | 38.80 | 16.40 | 1.28 | 1.12 | |
| VULCAN MATERIALS | COOK | BARTLETT LEVEL 1 & 2A | 21 | 12.02 | 101.01 | 74.60 | 41.80 | 30.30 | 1.05 | 1.11 | |
| VULCAN MCCOOK | COOK | MCCOOK VARIOUS LEDGES,CHIP PLANT SCREENING | 18 | 11.06 | 95.92 | 89.80 | 49.80 | 34.60 | 0.95 | 1.02 | |
| HANSON MATERIAL SERVICE | COOK | MCCOOK VARIOUS LOCATIONS | 15 | 9.50 | 81.63 | 89.40 | 47.90 | 33.40 | 1.15 | 1.21 | |
| HANSON MATERIAL SERVICE YARD | COOK | THORTON MAIN QUARRY LEDGES 2 & 3 | 19 | 11.11 | 98.84 | 99.90 | 53.61 | 33.40 | 0.89 | 0.92 | |
| VULCAN MATERIALS | DEKALB | DEKALB VARIOUS LEDGES | 21 | 12.42 | 101.64 | 96.20 | 63.20 | 46.23 | 0.74 | 0.84 | |
| VULCAN MATERIALS | DEKALB | SYCAMORE VARIOUS LEDGES | 21 | 11.93 | 96.48 | 89.70 | 50.00 | 36.90 | 0.93 | 1.01 | |
| TUSCOLA STONE COMPANY | DOUGLAS | TUSCOLA VARIOUS LEDGES AND LOCATIONS | 15 | 9.11 | 84.61 | 82.10 | 47.00 | 35.20 | 1.12 | 1.22 | |
| SHEELY AGGREGATES | EDGAR | | 20 | 12.52 | 101.65 | | | | | | TO FINE TO SIEVE |
| KIMATERIALS-KANE | GREENE | KANE VARIOUS LEDGES AND LOCATIONS | 27 | 2.80 | 87.80 | 64.40 | 31.20 | 20.90 | 1.53 | 1.49 | |
| LAFARGE NA (AUX SABLE QUARRY) | GRUNDY | MORRIS 0-75' LEDGE | 18 | 2.82 | 94.63 | 93.30 | 57.00 | 38.90 | 0.88 | 0.96 | |
| R.L. O'NEAL QUARRIES | HANCOCK | PLYMOUTH 0M-12.2M LEDGE 1 | 24 | 1.50 | 78.61 | 87.60 | 52.80 | 35.30 | 1.14 | 1.22 | |
| R.L. O'NEAL QUARRIES | HANCOCK | PLYMOUTH 13.7M-44.8M LEDGE 2 AND 3 | 25 | 3.51 | 89.18 | 82.90 | 51.70 | 38.40 | 1.00 | 1.11 | |
| GRAY QUARRIES | HANCOCK | HAMILTON 48.8M-54.9M LEDGE 5 | 27 | 3.31 | 98.52 | 97.20 | 67.20 | 52.20 | 0.71 | 0.84 | |
| GRAY QUARRIES | HANCOCK | HAMILTON COMMON STOCKPILE | 27 | 2.91 | 90.55 | 69.90 | 33.90 | 26.19 | 1.32 | 1.36 | |

Limestone Analysis Report Summary

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|-----------------------------------|------------|--|--------------|--------------|---------------|---------|----------|----------|-------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| LAFARGE HC #3 | HARDIN | ROSLARE VARIOUS LEDGES AND LOCATIONS | 33 | 2 | 93.26 | 83.90 | 47.10 | 29.80 | 1.07 | 1.10 | |
| HASTIE MINING | HARDIN | CAVE IN ROCK VARIOUS LEDGES AND LOCATIONS | 33 | 0.20 | 88.36 | 80.40 | 50.50 | 36.60 | 1.04 | 1.14 | |
| CESSFORD CONSTRUCTION-DALLAS CITY | HENDERSEN | DALLAS CITY KEOKUK/BURLINGTON LEDGES 120' face | 31 | 1.54 | 93.43 | 78.60 | 47.50 | 32.80 | 1.05 | 1.12 | |
| CESSFORD CONSTRUCTION-BIGGSVILLE | HENDERSEN | BIGGSVILLE KEOKUK & CEDAR FORK | 27 | 3.95 | 82.22 | 87.00 | 58.20 | 43.80 | 0.98 | 1.12 | |
| RIVERSTONE GROUP INC | HENRY | CLEVELAND LEDGES 2 & 3 | 19 | 10.92 | 101.90 | 90.90 | 43.40 | 27.10 | 1.01 | 1.00 | |
| PRAIRIE MATERIALS | IROQUOIS | ASHKUM REGULAR GRINDS/ A LEDGE | 29 | 3.39 | 84.6 | 85.00 | 42.50 | 31.39 | 1.18 | 1.25 | |
| KINCAID STONE COMPANY | JACKSON | AVA VARIOUS LEDGES REGULAR PRODUCTION | 31 | 1.48 | 86.09 | 84.40 | 41.89 | 26.19 | 1.24 | 1.24 | |
| KINCAID STONE COMPANY | JACKSON | AVA VARIOUS LEDGES FINE AG LIME | 32 | 1.07 | 89.86 | 89.70 | 45.10 | 29.39 | 1.10 | 1.12 | |
| CALHOUN QUARRY INC EAST | JERSEY | FIELDON 30'-50' LEDGE 1 NORTH | 30 | 1.84 | 93.48 | 96.50 | 50.70 | 33.00 | 0.96 | 1.01 | |
| CONMAT INC | JO DAVIESS | ELIZABETH 2.5-22.3 M. N. FACE, UPPER LEDGE | 21 | 12.41 | 100.81 | 79.09 | 42.39 | 30.19 | 1.03 | 1.08 | |
| LOUIE'S AGGREGATE COMPANY | JO DAVIESS | GUILFORD 0.0-13.7 M. | 21 | 12.01 | 97.33 | 71.30 | 34.30 | 24.40 | 1.25 | 1.26 | |
| LOUIE'S AGGREGATE COMPANY | JO DAVIESS | NORA 0.0-10.7 M. S. FACE | 22 | 12.15 | 98.06 | 72.80 | 36.50 | 26.80 | 1.17 | 1.21 | |
| HDI QUARRY | JO DAVIESS | PLEASANT VALLEY 9.1 - 14.6 M. LOWER LEDGE | 16 | 8.77 | 71.52 | 91.20 | 58.50 | 46.60 | 1.04 | 1.21 | |
| CONMAT INC | JODAVIESS | SCALES MOUND 0.0-12.2 M. N. FACE | 21 | 11.78 | 95.84 | 83.50 | 43.40 | 31.60 | 1.04 | 1.10 | |

Limestone Analysis Report Summary

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|----------------------------|-----------|--|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| CONMAT INC | JODAVIESS | STOCKTON 0.0 - 15.2 M. E. FACE | 21 | 12.10 | 99.44 | 75.00 | 37.70 | 28.50 | 1.11 | 1.17 | |
| FISCHER EXCAVATING INC | JODAVIESS | STOCKTON 0.0 - 18.3 M. E. FACE | 20 | 11.92 | 96.68 | 76.90 | 41.20 | 30.80 | 1.08 | 1.15 | |
| SHAWNEE STONE | JOHNSON | CYPRESS VARIOUS LEDGES AND LOCATIONS | 32 | 1.36 | 93.02 | 86.30 | 45.60 | 27.70 | 1.10 | 1.10 | |
| SOUTHERN ILLINOIS STONE | JOHNSON | BUNCOMBE VARIOUS LEDGES AND LOCATIONS | 30 | 1.13 | 89.71 | 76.30 | 35.30 | 22.90 | 1.34 | 1.31 | |
| LAFARGE CONCO | KANE | NORTH AURORA FINE AGLIME | 29 | 6.32 | 96.23 | 99.90 | 83.59 | 60.30 | 0.64 | 0.77 | |
| LAFARGE CONCO | KANE | NORTH AURORA COARSE AGLIME | 30 | 5.75 | 94.48 | 76.00 | 47.20 | 36.80 | 1.00 | 1.12 | |
| LAFARGE | KANE | SOUTH ELGIN LEVEL 1 BENCH | 22 | 12.67 | 102.32 | 66.40 | 33.30 | 23.60 | 1.23 | 1.24 | |
| VULCAN LEHIGH | KANKAKEE | KANKAKEE FINE GRIND/LEDGE 1 | 19 | 11.10 | 88.57 | 90.60 | 51.90 | 39.90 | 0.97 | 1.08 | |
| VULCAN MATERIALS | KANKAKEE | MANTENO REGULAR GRIND/ DE LEDGE | 20 | 11.37 | 94.05 | 74.80 | 35.90 | 24.90 | 1.25 | 1.26 | |
| PRAIRIE MATERIALS | KANKAKEE | MANTENO REGULAR GRINDS / B LEDGE | 19 | 11.05 | 87.83 | 81.80 | 38.50 | 26.10 | 1.26 | 1.27 | |
| LAFARGE NORTH AMERICA | KENDALL | LISBON VARIOUS LEDGES AND LOCATIONS FINE | 18 | 10.30 | 99.33 | 87.10 | 49.30 | 32.70 | 0.95 | 1.00 | |
| VULCAN-LISBON | KENDALL | LISBON VARIOUS LEDGES AND LOCATIONS FINE MATERIAL | 18 | 10.66 | 98.47 | 95.10 | 48.50 | 34.00 | 0.93 | 0.98 | |
| VULCAN-LISBON | KENDALL | LISBON VARIOUS LEDGES AND LOCATIONS COURSE MATERIAL | 18 | 10.32 | 97.69 | 71.00 | 34.10 | 25.90 | 1.22 | 1.26 | |
| CENTRAL LIMESTONE | KENDALL | LISBON VARIOUS LEDGES AND LOCATIONS | 22 | 11.38 | 99.14 | 89.30 | 50.40 | 33.70 | 0.93 | 0.98 | |

Limestone Analysis Report Summary

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|------------------------------------|------------|--|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| HERITAGE AGGREGATES | LAKE | LOWELL COURSE GRIND / LEVEL 3 | 18 | 11.40 | 104.18 | 76.20 | 38.10 | 25.40 | 1.10 | 1.10 | |
| PRAIRIE | LAKE | LOWELL COURSE AG LIME | 19 | 11.38 | 90.73 | 66.50 | 32.80 | 24.40 | 1.38 | 1.40 | |
| RIVERSTONE GROUP INC | LASALLE | OGLESBY IL VARIOUS LEDGES | 32 | 3.64 | 97.11 | 84.70 | 53.00 | 39.60 | 0.89 | 1.00 | |
| RIVERSTONE GROUP INC | LASALLE | TROY GROVE VARIOUS LEDGES SAND FINE LIME | 19 | 10.89 | 96.13 | 72.20 | 30.80 | 19.30 | 1.39 | 1.31 | |
| RIVERSTONE GROUP INC | LASALLE | TROY GROVE VARIOUS LEDGES EXTRA FINE LIME | 15 | 8.69 | 96.80 | 98.60 | 90.50 | 87.50 | 0.53 | 0.74 | |
| RIVERSTONE GROUP INC | LASALLE | TROY GROVE VARIOUS LEDGES FINE LIME | 18 | 10.81 | 94.85 | 98.30 | 60.40 | 48.10 | 0.79 | 0.92 | |
| LAFARGE-UTICA | LASALLE | UTICA VARIOUS LEDGES AND LOCATIONS FINE LIME | 14 | 8.66 | 78.06 | 97.50 | 49.00 | 33.40 | 1.16 | 1.21 | |
| CONMAT-PALMYRA | LEE | DIXON LEDGE-006 4.6 - 19.8M (15-65') | 18 | 11.07 | 104.15 | 79.70 | 50.50 | 39.20 | 0.86 | 0.97 | |
| RENNER QUARRIES LTD | LEE | ELDENA 008 3M-23.2M | 20 | 11.21 | 101.45 | 81.59 | 57.60 | 39.70 | 0.84 | 0.93 | |
| PRAIRIE MATERIALS | LIVINGSTON | OCOYA 6.0 M FACE | 28 | 0.90 | 78.66 | 95.30 | 48.20 | 30.60 | 1.20 | 1.22 | |
| VALLEY VIEW INDUSTRIES | LIVINGSTON | MCDOWELL 4.0 M LEDGE BLENDED LIME | 27 | 0.94 | 90.62 | 93.90 | 52.50 | 34.60 | 0.98 | 1.03 | |
| VALLEY VIEW INDUSTRIES | LIVINGSTON | MCDOWELL 4.0 M LEDGE FINE (MILLED) LIME | 33 | 0.87 | 85.80 | 96.70 | 67.10 | 46.30 | 0.86 | 0.97 | |
| HANSON MATERIAL SERVICE YARD 10 | LOGAN | LINCOLN COMBINED LEDGES | 36 | 1.12 | 84.59 | 78.60 | 39.90 | 25.19 | 1.32 | 1.32 | |
| KIMATERIALS-KANE | MADISON | VARIOUS LEDGES AND LOCATIONS | 23 | 5.15 | 86.86 | 85.70 | 48.90 | 36.70 | 1.05 | 1.15 | |
| BLUFF CITY MINERALS | MADISON | BLUFF CITY ANFO HEADINGS 3E15 BENCH 2E36 | 31 | 1.78 | 94.40 | 79.70 | 39.60 | 25.30 | 1.18 | 1.18 | |

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|------------------------------------|------------|---|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| ITICAL PELLET LIME | MADISON | ALTON LEDGES 1-2 ANFO HEADINGS 3E15 BENCH 2E36 | 28 | 3.11 | 88.29 | | | | | | PELLIME |
| CENTRAL STONE- TENNESSEE | MCDONOUGH | COLCHESTER L1 | 29 | 0.68 | 75.85 | 85.10 | 50.20 | 34.50 | 1.22 | 1.31 | |
| HANSON MATERIAL SERVICE YARD 17 | MENARD | ATHENS COMBINED LEDGES | 32 | 0.42 | 85.83 | 86.80 | 38.50 | 26.60 | 1.26 | 1.26 | |
| COLUMBIA QUARRY #7 | MONROE | WATERLOO 24.4M LEDGE 1-3 | 30 | 2.71 | 91.59 | 83.59 | 38.50 | 26.60 | 1.18 | 1.2 | |
| NOKOMIS QUARRY | MONTGOMERY | NOKOMIS COMBINED LEDGES FINE GRIND AG LIME | 33 | 0.56 | 91.97 | 99.10 | 50.60 | 30.50 | 1.00 | 1.01 | |
| NOKOMIS QUARRY | MONTGOMERY | NOKOMIS COMBINED LEDGES COURSE AG LIME | 34 | 0.56 | 98.26 | 80.10 | 38.80 | 23.20 | 1.17 | 1.14 | |
| HANSON MATERIAL SERVICE YARD 12 | MONTGOMERY | NOKOMIS COMBINED LEDGES | 33 | 0.57 | 94.95 | 96.40 | 46.10 | 28.00 | 1.03 | 1.03 | |
| HANSON MATERIAL SERVICE YARD 58 | MONTGOMERY | NOKOMIS COMBINED LEDGES | 37 | 0.63 | 92.5 | 100 | 99.60 | 95.30 | 0.51 | 0.73 | |
| WAGNER AGGREGATES- FAIRDALE | OGLE | MONROE CENTER LEDGE 008 (0.0-22.3) | 22 | 12.17 | 102.61 | 78.40 | 46.20 | 31.70 | 0.97 | 1.03 | |
| MARTIN MATERIALS | OGLE | OREGON +1.0-16.8M | 17 | 10.36 | 101.96 | 74.20 | 39.50 | 29.70 | 1.06 | 1.12 | |
| V.H. CALLENDER | PIKE | PERRY LEDGE 5 | 30 | 0.99 | 93.39 | 85.40 | 51.30 | 35.30 | 0.98 | 1.05 | |
| V.H. CALLENDER | PIKE | NEW HARTFORD LEDGE 1 | 33 | 0.55 | 90.52 | 84.50 | 51.90 | 36.60 | 0.99 | 1.08 | |
| CENTRAL STONE | PIKE | FLORENCE .75 MILES NORTH LEDGE 5 | 36 | 1.44 | 94.07 | 75.00 | 43.60 | 31.70 | 1.09 | 1.17 | |
| CENTRAL STONE- KINDERHOOK | PIKE | KINDERHOOK COMMON STOCKPILE | 31 | 0.62 | 89.67 | 95.10 | 56.80 | 39.40 | 0.92 | 1.01 | |
| W.B.SMITH | PIKE | LOUISIANA COMMON STOCKPILE | 33 | 0.51 | 98.75 | 97.50 | 55.60 | 36.20 | 0.86 | 0.91 | |

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|---------------------------|-------------|---|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| CENTRAL STONE-FESLER | PIKE | BARRY COMMON STOCKPILE | 32 | 0.36 | 92.74 | 91.30 | 55.50 | 40.10 | 0.90 | 1.00 | |
| MARTIN MARIETTA | PUTNAM | CLOVERDALE 58' FACE-WEST PIT,SOUTH SIDE,LEDGES 101-402 | 33 | 0.23 | 89.81 | 87.70 | 50.00 | 29.60 | 1.08 | 1.09 | |
| BLUFF CITY MATERIAL | RANDOLPH | PRAIRIE DUROCHER 8.5 M LEDGE 1 | 35 | 0.22 | 97.22 | 80.00 | 45.60 | 28.70 | 1.06 | 1.08 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | LECLAIRE VARIOUS LEDGES AND LOCATIONS AG LIME | 20 | 11.07 | 103.41 | 90.10 | 46.60 | 31.70 | 0.93 | 0.96 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | MILAN VARIOUS LEDGES AND LOCATIONS | 19 | 9.62 | 91.24 | 82.10 | 44.00 | 29.10 | 1.13 | 0.82 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | OSBORN LEDGES 1 & 2 | 20 | 10.80 | 94.82 | 89.10 | 47.50 | 31.00 | 1.02 | 1.14 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | LECLAIRE VARIOUS LEDGES HY-G | 28 | 11.40 | 82.15 | 99.80 | 99.40 | 97.70 | 0.57 | 0.71 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | LECLAIRE VARIOUS LEDGES GR-32 SCREENINGS | 32 | 11.50 | 104.13 | 79.80 | 32.60 | 14.20 | 1.31 | 1.07 | |
| RIVERSTONE GROUP INC | ROCK ISLAND | MCCAUSLAND VARIOUS LEDGES | 32 | 10.84 | 103.29 | 90.20 | 61.10 | 49.30 | 0.73 | 0.86 | |
| V.H. CALLENDER | SCOTT | GLASGOW LEDGE 1 | 34 | 0.96 | 93.14 | 80.80 | 38.50 | 26.60 | 1.06 | 1.13 | |
| BRUSH CREEK QUARRY | SHELBY | STEWARDSON FULL FACE | 8 | 0.43 | 24.65 | 79.30 | 48.20 | 37.40 | 3.76 | 4.19 | |
| COLUMBIA QUARRY #9 | ST CLAIR | DUPO 18.9M LEDGE 1A-5 | 31 | 1.69 | 90.50 | 95.90 | 78.40 | 60.80 | 0.70 | 0.86 | |
| FALLINGS SPRINGS | ST CLAIR | DUPO LEDGE 1B | 34 | 3.34 | 93.20 | 86.90 | 48.80 | 33.50 | 1.01 | 1.07 | |
| CASPER STOLLE | ST CLAIR | DUPO LEDGE 12 | 35 | 0.77 | 93.68 | 75.00 | 32.70 | 20.80 | 1.36 | 1.3 | |
| CONMAT INC | STEPHENSON | PEARL CITY 0.0-15.2 M. N. FACE | 21 | 12.03 | 98.60 | 69.30 | 35.90 | 26.20 | 1.20 | 1.23 | |
| FISCHER EXCAVATING INC | STEPHENSON | FREEPORT 0.0-9.1 M. N. FACE | 21 | 12.65 | 101.90 | 79.40 | 47.80 | 36.00 | 0.92 | 1.02 | |

Limestone Analysis Report Summary

Producers grouped by County where product is available (Illinois Counties then surrounding states) - Samples L-001 – L-0159

| Producer Name | County | City Address Stockpile or Ledge Location | % Ca Results | % Mg Results | % CCE Results | Sieve 8 | Sieve 30 | Sieve 60 | Correction Factor | | Comment |
|--------------------------|------------|--|--------------|--------------|---------------|---------|----------|----------|-------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| DOC'S EXCAVATING | STEPHENSON | LENA +3.0-15.2 M. W. FACE | 21 | 11.78 | 102.93 | 78.50 | 47.30 | 35.20 | 0.93 | 1.02 | |
| CONMAT INC | STEPHENSON | FREEPORT 15.2-30.5 M. | 20 | 11.24 | 92.13 | 89.20 | 68.10 | 59.50 | 0.73 | 0.92 | |
| CONMAT INC | STEPHENSON | ORANGEVILLE 0.0 - 15.2 M. | 20 | 11.96 | 99.11 | 80.70 | 46.60 | 30.40 | 1.01 | 1.05 | |
| ANNA QUARRIES INC | UNION | ANNA VARIOUS LEDGES AND LOCATIONS | 31 | 2.10 | 90.28 | 89.30 | 39.90 | 24.80 | 1.20 | 1.17 | |
| SHAWNEE STONE | UNION | JONESBORO VARIOUS LEDGES AND LOCATIONS | 36 | 0.55 | 97.38 | 87.70 | 59.70 | 43.00 | 0.83 | 0.93 | |
| HANSON MATERIAL SERVICE | VERMILLION | FAIRMOUNT SOUTH CUT 15'-18' LEDGE | 37 | 0.47 | 92.68 | 97.30 | 66.50 | 46.90 | 0.79 | 0.90 | |
| MONMOUTH QUARRY | WARREN | MONMOUTH KEOKUK/BURLINGTON LEDGES | 36 | 4.65 | 97.0 | 89.90 | 62.90 | 46.10 | 0.79 | 0.91 | |
| RIVERSTONE-VALLEY QUARRY | WARREN | ST AUGUSTINE,IL 60' LEDGE | 29 | 2.16 | 85.46 | 94.80 | 63.40 | 46.10 | 0.88 | 1.01 | |
| VULCAN MATERIALS LARAWAY | WILL | JOLIET 0 TO 90 FEET SOUTH FACE | 18 | 10.41 | 95.20 | 68.30 | 31.40 | 22.30 | 1.36 | 1.34 | |
| BOUGHTON TRUCKING | WILL | PLAINFIELD 0-135 FEET NORTH FACE | 19 | 10.76 | 85.97 | 49.50 | 17.40 | 13.40 | 2.21 | 1.99 | |
| MINING INTERNATIONAL | WILL | JOLIET UNDERGROUND MINE FEED 2 | 21 | 11.83 | 102.63 | 71.30 | 36.00 | 25.70 | 1.15 | 1.17 | |
| LAFARGE | WILL | JOLIET UNDERGROUND MINE LEVEL 1 HEADING & BENCH | 21 | 11.82 | 96.91 | 95.60 | 60.80 | 43.90 | 0.80 | 0.90 | |
| VULCAN MATERIALS LARAWAY | WILL | BOLINGBROOK UNDERGROUND MINE LEVELS 1,3 & 4 | 29 | 5.93 | 93.72 | 89.40 | 60.50 | 46.80 | 0.82 | 0.96 | |
| ELM HURST CHICAGO STONE | WILL | BOLINGBROOK VARIOUS LOCATIONS | 16 | 9.84 | 85.37 | 59.10 | 15.30 | 4.90 | 3.39 | 1.92 | |

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|-------------------------------------|------------|--|--------------|--------------|---------------|---------|----------|----------|-------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| VULCAN MATERIALS | WILL | ROMEOWILLE VARIOUS LOCATIONS SPLIT WITH ALBERT COLON DEPT AGG RED TAG # 0002340 | 22 | 9.48 | 100.48 | 77.80 | 44.00 | 32.60 | 1.00 | 1.07 | |
| HANSON MATERIAL SERVICE | WILL | ROMEOWILLE NORTH FACE 0 TO 132 FEET WEST QUARRY | 15 | 8.88 | 81.97 | 76.70 | 38.90 | 21.10 | 1.46 | 1.39 | |
| ROGERS R/M & MATERIALS | WINNEBAGO | CHERRY VALLEY LEDGE 2 12.2M-26.5M | 19 | 11.64 | 102.11 | 81.00 | 50.50 | 30.90 | 0.95 | 0.99 | |
| ROGERS R/M & MATERIALS | WINNEBAGO | CHERRY VALLEY LEDGE 1 0.0-12.2M | 18 | 11.05 | 99.17 | 73.40 | 45.60 | 28.10 | 1.07 | 1.10 | |
| SURROUNDING STATES | | | | | | | | | | | |
| WENDLING QUARRIES INC | CLINTON | CAMANCHE VARIOUS LEDGES AND BEDS | 23 | 11.07 | 102.63 | 82.30 | 47.30 | 34.30 | 0.93 | 0.86 | |
| MULZER CRUSHED STONE | CRAWFORD | ENGLISH LEDGE 4 | 29 | 3.37 | 95.95 | 91.50 | 45.70 | 30.90 | 1.01 | 1.04 | |
| MULZER CRUSHED STONE | CRAWFORD | VARIOUS LEDGES AND LOCATIONS | 30 | 2.13 | 94.11 | 100.0 | 61.10 | 39.5 | 0.85 | 0.91 | |
| ROGERS GROUP-MITCHELL CRUSHED STONE | LAWRENCE | MITCHELL LEDGES 3-7 | 33 | 0.51 | 94.39 | 85.60 | 41.70 | 26.20 | 1.13 | 1.12 | |
| CENTRAL STONE-TAYLOR | MARION | TAYLOR COMMON STOCKPILE | 28 | 1.10 | 86.91 | 93.00 | 57.70 | 38.80 | 0.96 | 1.04 | |
| FRANKLIN AGGTEGATE | MILWAUKEE | FRANKLIN WI LEVEL 9,10 | 19 | 10.95 | 96.72 | 68.90 | 36.10 | 26.60 | 1.21 | 1.26 | |
| ROGERS GROUP-BLOOMINGTON CR ST | MONROE | BLOOMINGTON LEDGES 4-6 | 32 | 0.76 | 95.44 | 84.50 | 57.60 | 33.20 | 0.94 | 0.98 | |
| WHITESVILLE | MONTGOMERY | CRAWFORDSVILLE PRODUCED FROM STEEL SLAG | 23 | 6.33 | 69.63 | 99.80 | 59.50 | 32.40 | 1.23 | 1.25 | |

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|---------------------------------|-------------|--|--------------|--------------|---------------|---------|----------|----------|-------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| WENDLING QUARRIES INC | MUSCATINE | ATALISSA VARIOUS LEDGES AND BEDS | 31 | 1.52 | 90.25 | 86.20 | 47.00 | 32.20 | 1.07 | 1.12 | |
| NEWTON COUNTY STONE | NEWTON | KENTLAND COURSE GRINDS/AREA 8, LEVEL A, LEDGES 1-2 | 21 | 12.18 | 97.88 | 85.00 | 35.5 | 24.20 | 1.17 | 1.15 | |
| NEWTON COUNTY STONE | NEWTON | KENTLAND FINE GRINDS/AREA 8, LEVEL A, LEDGES 1-2 | 21 | 12.21 | 99.34 | 94.50 | 39.10 | 25.20 | 1.07 | 1.05 | |
| EDW C LECY COMPANY | NONE | ACBF 002 FA00 | 36 | 5.76 | 79.40 | 98.70 | 75.10 | 25.50 | 1.06 | 0.99 | |
| CAVE QUARRIES INC | ORANGE | PAOLI LEDGE 301-1502 | 30 | 1.02 | 94.69 | 98.50 | 56.30 | 36.30 | 0.89 | 0.94 | |
| CALCAR QUARRIES INC | ORANGE | PAOLI LEDGES 1-16 | 31 | 1.85 | 95.92 | 88.10 | 45.50 | 29.00 | 1.04 | 1.06 | |
| ROGERS GROUP-OWEN VALLEY QUARRY | OWEN | SPENCER LEDGES 201-501 | 28 | 2.00 | 88.63 | 85.90 | 43.10 | 28.30 | 1.16 | 1.18 | |
| LAFARGE | PERRY | PERRYVILLE 19.5 M, LEDGES 2 + 3 | 32 | 1.37 | 93.68 | 89.50 | 37.00 | 22.80 | 1.21 | 1.16 | |
| PAYNE & DOLAN | RACINE | RACINE WI COMBINED LEDGES | 19 | 11.06 | 89.07 | 77.10 | 41.00 | 30.60 | 1.18 | 1.25 | |
| CENTRAL STONE-HAMILTON | RALLS | HUNTINGTON COMMON STOCKPILE | 32 | 0.29 | 91.79 | 99.60 | 77.50 | 51.80 | 0.73 | 0.84 | |
| LITTLE LIMESTONE | ROCK | CLINTON 12.2 M - 18.3 M | 33 | 10.98 | 98.22 | 82.30 | 65.20 | 55.70 | 0.73 | 0.91 | |
| BUSSEN AT KOCH | ROCK ISLAND | ST LOUIS LEDGES 5 - 15 | 36 | 0.82 | 91.72 | 82.80 | 37.90 | 24.00 | 1.24 | 1.21 | |
| CENTRAL STONE | ST LOUIS | ST LOUIS 3-9 | 30 | 2.23 | 90.49 | 99.80 | 99.70 | 96.70 | 0.52 | 0.75 | |
| BUSSEN AT ANTIRE | ST LOUIS | FLORISSANT LEDGES 10 - 27 | 29 | 5.51 | 96.03 | 99.70 | 99.50 | 98.10 | 0.49 | 0.719 | |

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|-----------------------------|---------------|---|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| APAC | STE.GENEVIEVE | BLOOMSDALE VARIOUS LOCATIONS | 34 | 0.78 | 96.62 | 99.00 | 66.30 | 47.90 | 0.76 | 0.87 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND CODE H | 32 | 0.22 | 91.28 | 97.50 | 92.90 | 87.80 | 0.56 | 0.78 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND R- 0 SOIL CONDITIONER | 36 | 0.18 | 96.48 | 51.80 | 37.10 | 27.60 | 1.27 | 1.37 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND CODE L | 41 | 0.23 | 96.41 | 100.0 | 99.20 | 95.60 | 0.49 | 0.70 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND LIME HYDRATE | 43 | 0.30 | 123.94 | 93.50 | 92.60 | 92.30 | 0.40 | 0.58 | |
| TOWER ROCK STONE | STE.GENEVIEVE | STE.GENEVIEVE VARIOUS LOCATIONS | 33 | 1.15 | 93.05 | 97.30 | 65.10 | 41.40 | 0.83 | 0.91 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND CALCIUM CARBONATE | 35 | 0.21 | 96.61 | 97.70 | 95.20 | 93.00 | 0.51 | 0.72 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND R- 2 SOIL CONDITIONER | 35 | 0.17 | 98.01 | 100.0 | 100.0 | 99.30 | 0.47 | 0.69 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND CODE HA | 21 | 0.19 | 60.35 | 97.40 | 92.50 | 88.70 | 0.84 | 1.18 | |
| MISSISSIPPI LIME COMPANY | STE.GENEVIEVE | STE.GENEVIEVE 30M UNDERGROUND R- 1 SOIL CONDITIONER | 33 | 0.18 | 96.96 | 100.0 | 73.80 | 29.50 | 0.84 | 0.81 | |
| LINCOLN PARK STONE | VIGO | PUTTAMVILLE L. 1-6 | 33 | 0.67 | 91.88 | 99.30 | 54.80 | 35.50 | 0.93 | 0.98 | |
| WAUKESHA LIME | WAUKESHA | WAUKESHA WI COMBINED LEDGES 0- 185 | 21 | 12.71 | 103.44 | 90.70 | 39.70 | 31.20 | 0.97 | 1.02 | |
| HALQUIST STONE | WAUKESHA | SUSSEX WI NORTHSIDE COMBINED LEDGES | 20 | 10.94 | 89.33 | 97.00 | 80.20 | 66.70 | 0.68 | 0.88 | |

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|---------------|----------|---|-----------------|-----------------|------------------|------------|-------------|-------------|----------------------|-------|---------|
| | | | | | | | | | 1 Yr. | 4 Yr. | |
| LANNON STONE | WAUKESHA | SUSSEX WI LEDGE 2 67-100' | 20 | 11.70 | 96.26 | 54.80 | 24.40 | 17.60 | 1.64 | 1.56 | |