

**Missouri  
Agricultural Liming  
Materials Report**

**January 1 to June 30, 2016**

**Agricultural Experiment Station**

**University of Missouri-Columbia**

This bulletin is a detailed report of official samples obtained under the Missouri Agricultural Liming Materials Law collected from January 1 through June 30, 2016. There were 731 official samples collected in this period. All samples are analyzed to determine fineness of grind, calcium carbonate equivalent (CCE), and magnesium content (Mg). Effective neutralizing material (ENM) and effective magnesium (EMg) are calculated from this information, as prescribed by Rule, for each dry sample which meets the minimum specifications of at least 90% passing a U.S. No. 8 sieve and minimum 65% CCE. Products not meeting minimum specifications cannot be sold as agricultural liming materials. Ten deficient samples are reported, all ten for excessive coarseness. There was one "stop sale" order issued against producer stockpiles for excessive coarseness. There were no Stop Sale Orders released. There were no deficient samples reported at distributor retail stockpile locations.

Table 1 lists registered producers and samples obtained at production sites.  
Table 2 lists samples obtained from retail distributor stockpiles, by producer.

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MISSOURI AGRICULTURAL LIMING MATERIALS TONNAGE  
REPORTED SINCE AUGUST 13, 1976

| YEAR | SPRING    | FALL      | TOTAL      |
|------|-----------|-----------|------------|
| 1976 | -----     | 2,514,500 | -----      |
| 1977 | 1,590,700 | 1,166,600 | 2,757,300  |
| 1978 | 1,116,100 | 2,546,250 | 3,662,350  |
| 1979 | 975,300   | 3,068,900 | 4,044,200  |
| 1980 | 1,431,000 | 2,266,900 | 3,697,900  |
| 1981 | 1,336,750 | 1,228,350 | 2,565,100  |
| 1982 | 825,100   | 1,029,000 | 1,854,100  |
| 1983 | 872,700   | 1,154,700 | 2,027,400  |
| 1984 | 595,725   | 899,459   | 1,495,185  |
| 1985 | 611,050   | 783,575   | 1,394,625  |
| 1986 | 967,375   | 646,115   | 1,613,490  |
| 1987 | 1,104,358 | 1,558,171 | 2,662,529  |
| 1988 | 1,036,917 | 1,605,444 | 2,642,361  |
| 1989 | 939,831   | 1,586,398 | 2,526,229  |
| 1990 | 504,100   | 1,204,551 | 1,708,651  |
| 1991 | 646,864   | 835,603   | 1,482,467  |
| 1992 | 859,648   | 771,536   | 1,631,184  |
| 1993 | 397,607   | 686,345   | 1,083,952  |
| 1994 | 681,464   | 967,450   | 1,648,914  |
| 1995 | 720,140   | 1,207,663 | 1,927,803  |
| 1996 | 704,151   | 886,627   | 1,590,778  |
| 1997 | 779,876   | 1,063,760 | 1,843,636  |
| 1998 | 626,186   | 1,048,308 | 1,674,494  |
| 1999 | 606,847   | 1,557,259 | 2,164,106  |
| 2000 | 886,861   | 996,123   | 1,882,984  |
| 2001 | 512,964   | 1,311,614 | 1,824,578  |
| 2002 | 696,473   | 1,079,130 | 1,775,603  |
| 2003 | 596,438   | 829,574   | 1,426,012  |
| 2004 | 629,642   | 748,503   | 1,378,145  |
| 2005 | 667,212   | 659,215   | 1,326,427  |
| 2006 | 839,305   | 774,665   | 1,613,969  |
| 2007 | 481,973   | 1,085,571 | 1,567,544  |
| 2008 | 373,490   | 727,861   | 1,101,351  |
| 2009 | 681,600   | 583,025   | 1,264,626  |
| 2010 | 446,530   | 1,321,861 | 1,768,392  |
| 2011 | 377,505   | 1,092,184 | 1,469,689  |
| 2012 | 748,274   | 1,962,906 | 2,711,180  |
| 2013 | 387,007   | 919,294   | 1,306,301  |
| 2014 | 572,329   | 862,113   | 1,434,442  |
| 2015 | 588,692   | 901,514   | 1,490,206  |
| 2016 | 700,000*  | 900,000*  | 1,600,000* |

\* PRELIMINARY ESTIMATE

**TABLE 1**  
**AGRICULTURAL LIMING MATERIALS SAMPLED FROM**  
**JANUARY 1 THROUGH JUNE 30, 2016**

| Distributor  | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| 76 QUARRY, MANSFIELD, MO                               |              |                        |       |        |      |      |      |                 |            |     |
| AA QUARRY, KINGSVILLE, MO                              |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0175  | 02-26-16     | 0.0                    | 60.9  | 12.6   | 26.5 | 91.5 | 0.4  | 49.3            | 361        | 4   |
| Lab #0534  | 05-04-16     | 0.1                    | 55.3  | 10.7   | 33.9 | 90.8 | 0.5  | 54.1            | 393        | 5   |
| Lab #0686  | 06-02-16     | 0.2                    | 56.1  | 11.1   | 32.6 | 91.5 | 0.5  | 53.3            | 390        | 5   |
| ALBY QUARRY, CARLINVILLE, IL                           |              |                        |       |        |      |      |      |                 |            |     |
| ALLEN QUARRIES INC, LOCKWOOD, MO                       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0705  | 06-09-16     | 1.2                    | 51.7  | 11.8   | 35.3 | 90.0 | 0.2  | 55.3            | 398        | 2   |
| ANCHOR STONE, PINEVILLE, MO                            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0662  | 06-02-16     | 0.2                    | 38.1  | 9.5    | 52.2 | 91.2 | 11.1 | 67.4            | 492        | 150 |
| ANCHOR STONE CO, JOPLIN, MO                            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0227  | 03-08-16     | 14.2*                  | 47.0  | 10.7   | 28.1 | 85.7 | 0.1  | 46.3            | 0          | 0   |
| APAC MISSOURI/HILTY DIV-ADRIAN, OVERLAND PARK, KS      |              |                        |       |        |      |      |      |                 |            |     |
| APAC - KANSAS, INC. - CAMERON, LATHROP, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0080  | 02-05-16     | 0.4                    | 43.7  | 11.3   | 44.6 | 80.9 | 1.3  | 62.3            | 403        | 16  |
| Lab #0239  | 03-11-16     | 0.6                    | 40.0  | 12.5   | 46.9 | 78.0 | 1.5  | 64.4            | 402        | 19  |
| Lab #0404  | 04-08-16     | 0.5                    | 52.0  | 11.2   | 36.3 | 81.6 | 1.4  | 56.0            | 366        | 16  |
| Lab #0643  | 05-20-16     | 1.4                    | 41.3  | 10.3   | 47.0 | 75.1 | 1.9  | 63.5            | 382        | 24  |
| APAC - KANSAS, INC. - GOWER, LATHROP, MO               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #3   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0128  | 02-10-16     | 2.1                    | 48.4  | 9.0    | 40.5 | 80.4 | 0.8  | 58.0            | 373        | 9   |
| Lab #0286  | 03-18-16     | 0.7                    | 46.6  | 10.3   | 42.4 | 81.4 | 1.0  | 60.2            | 392        | 12  |
| Lab #0504  | 04-22-16     | 2.5                    | 56.1  | 12.0   | 29.4 | 85.0 | 0.9  | 50.6            | 344        | 9   |
| Lab #0645  | 05-20-16     | 0.9                    | 45.7  | 9.5    | 43.9 | 80.4 | 1.0  | 61.0            | 393        | 12  |
| APAC - KANSAS, INC. - KINGSTON, LATHROP, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #5   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0092  | 02-17-16     | 0.1                    | 54.6  | 10.3   | 35.0 | 86.1 | 0.6  | 54.8            | 378        | 7   |
| Lab #0240  | 03-10-16     | 0.1                    | 52.1  | 11.3   | 36.5 | 86.8 | 0.7  | 56.3            | 391        | 8   |
| Lab #0301  | 03-23-16     | 0.4                    | 48.4  | 10.4   | 40.8 | 87.4 | 1.1  | 59.1            | 414        | 13  |
| Lab #0524  | 05-05-16     | 0.3                    | 46.3  | 11.8   | 41.6 | 85.8 | 1.2  | 60.3            | 414        | 14  |
| APAC-KANSAS, INC - HARRISONVILLE, HARRISONVILLE, MO    |              |                        |       |        |      |      |      |                 |            |     |
| APAC - KANSAS, INC. - LATHROP, LATHROP, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0129  | 02-10-16     | 0.7                    | 47.0  | 11.9   | 40.4 | 84.6 | 0.9  | 59.3            | 401        | 11  |
| Lab #0285  | 03-18-16     | 0.3                    | 46.5  | 12.3   | 40.9 | 86.4 | 1.0  | 59.9            | 414        | 12  |
| Lab #0503  | 04-22-16     | 0.9                    | 47.9  | 12.3   | 38.9 | 86.0 | 1.0  | 58.3            | 401        | 12  |
| Lab #0644  | 05-20-16     | 0.4                    | 45.7  | 11.5   | 42.4 | 86.4 | 1.0  | 60.7            | 420        | 12  |
| APAC MISSOURI/HILTY DIV - LEETON, OVERLAND PARK, KS    |              |                        |       |        |      |      |      |                 |            |     |
| APAC MISSOURI/HILTY DIV- SOUTH DELL, OVERLAND PARK, KS |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0086  | 02-09-16     | 5.0                    | 50.2  | 11.2   | 33.6 | 93.7 | 0.4  | 52.9            | 396        | 4   |
| APAC MISSOURI/HILTY DIV - TIGHTWAD, OVERLAND PARK, KS  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0247  | 03-11-16     | 2.3                    | 42.2  | 13.0   | 42.5 | 94.1 | 0.6  | 60.9            | 458        | 7   |
| Stockpile #3   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0248  | 03-11-16     | 1.7                    | 45.1  | 12.2   | 41.0 | 92.4 | 0.4  | 59.6            | 441        | 5   |
| APAC MISSOURI/HILTY DIV - URICH, OVERLAND PARK, KS     |              |                        |       |        |      |      |      |                 |            |     |
| APAC-CENTRAL INC.-N.HARRISON QUARRY, FAYETTEVILLE, AR  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0526  | 05-02-16     | 2.8                    | 51.5  | 13.1   | 32.6 | 93.8 | 0.2  | 53.3            | 400        | 2   |
| APAC-CENTRAL INC. -VALLEY SPRINGS, FAYETTEVILLE, AR    |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0525  | 05-02-16     | 1.9                    | 45.5  | 12.9   | 39.7 | 96.6 | 0.1  | 58.8            | 455        | 1   |
| APAC-MISSOURI, INC - BAGNELL 13, OVERLAND PARK, KS     |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0246  | 03-10-16     | 6.1                    | 39.4  | 14.3   | 40.2 | 93.5 | 10.9 | 58.6            | 439        | 128 |
| Lab #0451  | 04-20-16     | 3.4                    | 40.0  | 15.6   | 41.0 | 93.5 | 11.3 | 60.4            | 451        | 136 |
| APAC-MISSOURI & KANSAS-BATES CITY, BATES CITY, MO      |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0226  | 04-01-25     | 0.3                    | 42.9  | 10.4   | 46.4 | 82.7 | 9.8  | 63.4            | 419        | 124 |
| APAC-MISSOURI, INC. - BOONVILLE, BOONVILLE, MO         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0014  | 01-14-16     | 5.4                    | 47.9  | 12.3   | 34.4 | 93.7 | 0.1  | 53.8            | 403        | 1   |
| Lab #0117  | 02-17-16     | 4.1                    | 48.9  | 14.0   | 33.0 | 93.4 | 0.1  | 53.6            | 401        | 1   |
| Lab #0293  | 03-18-16     | 5.1                    | 49.3  | 13.5   | 32.1 | 94.5 | 0.1  | 52.5            | 397        | 1   |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                                       | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| APAC-MISSOURI, INC. - BOONVILLE, MO (Continued)   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0418   | 04-15-16     | 5.7                    | 49.6  | 12.7   | 32.0 | 93.7 | 0.1  | 52.0            | 390        | 1   |
| Lab #0567   | 05-12-16     | 5.0                    | 49.3  | 12.5   | 33.2 | 94.3 | 0.2  | 53.0            | 400        | 2   |
| Stockpile #2                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0015   | 01-14-16     | 6.4                    | 47.8  | 12.1   | 33.7 | 93.0 | 0.1  | 52.9            | 394        | 1   |
| Lab #0118   | 02-17-16     | 4.7                    | 47.7  | 13.5   | 34.1 | 93.7 | 0.1  | 54.1            | 406        | 1   |
| Lab #0294   | 03-18-16     | 5.0                    | 50.5  | 13.4   | 31.1 | 95.5 | 0.1  | 51.8            | 395        | 1   |
| Lab #0419   | 04-15-16     | 5.6                    | 49.2  | 12.5   | 32.7 | 92.6 | 0.1  | 52.5            | 389        | 1   |
| Lab #0568   | 05-12-16     | 5.1                    | 49.7  | 12.9   | 32.3 | 93.7 | 0.1  | 52.5            | 393        | 1   |
| APAC - BRICKEY'S STONE, BLOOMSDALE, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0162   | 02-23-16     | 7.3                    | 41.7  | 12.0   | 39.0 | 98.2 | 0.7  | 56.6            | 445        | 8   |
| Lab #0441   | 04-21-16     | 0.7                    | 38.4  | 13.5   | 47.4 | 96.0 | 1.0  | 65.1            | 500        | 13  |
| Lab #0649   | 05-31-16     | 0.6                    | 36.4  | 14.1   | 48.9 | 97.7 | 1.0  | 66.5            | 519        | 13  |
| APAC-CENTRAL, INC. - BUSIEK, FAYETTEVILLE, AR     |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0437   | 04-19-16     | 2.4                    | 45.7  | 8.6    | 43.3 | 87.7 | 10.7 | 59.9            | 420        | 128 |
| Lab #0702   | 06-06-16     | 2.9                    | 47.3  | 8.3    | 41.5 | 87.5 | 10.7 | 58.3            | 408        | 125 |
| APAC-MISSOURI, INC. - MARSHALL, MO                |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #5                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0009   | 01-08-16     | 3.3                    | 50.1  | 9.9    | 36.7 | 84.9 | 4.5  | 55.2            | 375        | 50  |
| Lab #0121   | 02-17-16     | 5.0                    | 52.5  | 8.7    | 33.8 | 85.5 | 5.0  | 52.1            | 357        | 52  |
| Lab #0249   | 03-10-16     | 4.3                    | 50.9  | 9.1    | 35.7 | 88.3 | 4.2  | 53.9            | 381        | 45  |
| Lab #0400   | 04-11-16     | 4.8                    | 54.1  | 9.4    | 31.7 | 91.1 | 3.4  | 50.9            | 371        | 35  |
| Lab #0556   | 05-11-16     | 6.2                    | 52.6  | 10.1   | 31.1 | 92.3 | 1.4  | 50.3            | 371        | 14  |
| APAC-CENTRAL INC. - ROARK CREEK, FAYETTEVILLE, AR |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0436   | 04-19-16     | 2.2                    | 51.0  | 8.7    | 38.1 | 95.6 | 11.5 | 56.1            | 429        | 129 |
| Lab #0701   | 06-06-16     | 3.7                    | 51.5  | 7.7    | 37.1 | 95.2 | 11.3 | 54.6            | 416        | 123 |
| APAC - KANSAS & MISSOURI - SNOW RD, SEDALIA, MO   |              |                        |       |        |      |      |      |                 |            |     |
| ARKANSAS LIME COMPANY, INC., BATESVILLE, AR       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0067   | 02-09-16     | 14.5*                  | 40.1  | 11.7   | 33.7 | 97.5 | 0.2  | 50.7            | 0          | 0   |
| ASH GROVE AGGREGATES-DEEPWATER, BUTLER, MO        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0328   | 03-25-16     | 0.1                    | 42.2  | 12.3   | 45.4 | 77.2 | 0.1  | 63.3            | 391        | 1   |
| Lab #0520   | 05-02-16     | 0.5                    | 41.2  | 11.0   | 47.3 | 70.9 | 0.2  | 64.2            | 364        | 3   |
| Lab #0591   | 05-19-16     | 0.7                    | 52.1  | 10.9   | 36.3 | 92.9 | 0.4  | 55.9            | 415        | 4   |
| Lab #0714   | 06-09-16     | 0.6                    | 41.7  | 12.2   | 45.5 | 73.4 | 0.4  | 63.2            | 371        | 5   |
| ASH GROVES AGGREGATES-DEVER, BUTLER, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0085   | 02-08-16     | 1.2                    | 47.9  | 13.3   | 37.6 | 96.2 | 0.1  | 57.6            | 443        | 1   |
| Lab #0213   | 03-07-16     | 0.6                    | 50.0  | 12.7   | 36.7 | 97.4 | 0.2  | 56.8            | 443        | 2   |
| Lab #0421   | 04-14-16     | 0.6                    | 48.3  | 13.7   | 37.4 | 96.9 | 0.2  | 57.7            | 447        | 2   |
| ASH GROVE AGGREGATES-FAIR GROVE, BUTLER, MO       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0161   | 02-26-16     | 4.7                    | 53.9  | 7.1    | 34.3 | 89.2 | 11.0 | 52.0            | 371        | 114 |
| Lab #0598   | 05-20-16     | 4.8                    | 54.3  | 7.0    | 33.9 | 89.1 | 11.0 | 51.7            | 368        | 114 |
| Lab #0663   | 06-03-16     | 5.3                    | 52.3  | 8.1    | 34.3 | 88.9 | 10.9 | 52.2            | 371        | 114 |
| ASH GROVE AGGREGATES, INC-STOCKTON, BUTLER, MO    |              |                        |       |        |      |      |      |                 |            |     |
| ASH GROVE AGGREGATES-FAIR PLAY, BUTLER, MO        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0126   | 02-17-16     | 0.7                    | 46.4  | 15.0   | 37.9 | 97.2 | 0.1  | 58.5            | 455        | 1   |
| Lab #0296   | 03-21-16     | 0.6                    | 53.7  | 14.2   | 31.5 | 95.9 | 0.1  | 53.4            | 410        | 1   |
| Lab #0485   | 04-28-16     | 0.9                    | 52.0  | 13.5   | 33.6 | 96.3 | 0.1  | 54.7            | 421        | 1   |
| Lab #0558   | 05-09-16     | 0.6                    | 52.1  | 14.4   | 32.9 | 95.7 | 0.1  | 54.6            | 418        | 1   |
| Lab #0713   | 06-08-16     | 0.5                    | 48.0  | 14.7   | 36.8 | 97.2 | 0.1  | 57.6            | 448        | 1   |
| ASH GROVE AGGREGATES INC-S&K, BUTLER, MO          |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0084   | 02-10-16     | 0.9                    | 48.9  | 13.1   | 37.1 | 83.7 | 0.9  | 57.2            | 383        | 10  |
| Lab #0261   | 03-14-16     | 1.8                    | 47.9  | 12.6   | 37.7 | 85.1 | 0.7  | 57.2            | 390        | 8   |
| Lab #0455   | 04-21-16     | 1.5                    | 44.7  | 12.8   | 41.0 | 83.9 | 0.6  | 59.9            | 402        | 7   |
| Lab #0559   | 05-11-16     | 1.9                    | 47.7  | 12.2   | 38.2 | 83.9 | 0.8  | 57.4            | 386        | 9   |
| Lab #0711   | 06-07-16     | 1.8                    | 47.2  | 12.4   | 38.6 | 83.5 | 0.8  | 57.8            | 386        | 9   |
| ASH GROVE AGGREGATES INC-LACYGNE, BUTLER, MO      |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0087   | 02-10-16     | 0.4                    | 43.9  | 9.6    | 46.1 | 78.7 | 1.2  | 62.8            | 396        | 15  |
| Lab #0266   | 03-14-16     | 0.5                    | 44.4  | 10.1   | 45.0 | 81.9 | 1.3  | 62.2            | 407        | 16  |
| Lab #0452   | 04-21-16     | 0.3                    | 47.9  | 10.4   | 41.4 | 80.7 | 0.9  | 59.6            | 385        | 11  |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor  | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| ASH GROVE AGGREGATES INC-LACYGNE, BUTLER, MO (Continued) |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0708  | 06-07-16     | 0.8                    | 42.8  | 10.2   | 46.2 | 81.0 | 1.3  | 63.0            | 408        | 16  |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0088  | 02-10-16     | 5.9                    | 46.6  | 8.8    | 38.7 | 84.6 | 0.8  | 55.6            | 377        | 9   |
| Lab #0267  | 03-14-16     | 7.0                    | 45.9  | 8.6    | 38.5 | 84.8 | 1.5  | 55.1            | 374        | 17  |
| Lab #0453  | 04-21-16     | 5.9                    | 44.1  | 9.4    | 40.6 | 83.0 | 1.5  | 57.3            | 380        | 17  |
| Lab #0709  | 06-07-16     | 8.2                    | 46.9  | 8.4    | 36.5 | 85.0 | 0.7  | 53.3            | 362        | 7   |
| ASH GROVE AGGREGATES INC-MARSHFIELD, BUTLER, MO          |              |                        |       |        |      |      |      |                 |            |     |
| ASH GROVE AGGREGATES INC-OSCEOLA, BUTLER, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0158  | 02-26-16     | 3.1                    | 48.3  | 12.0   | 36.6 | 90.3 | 1.6  | 55.9            | 404        | 18  |
| Lab #0279  | 03-18-16     | 2.4                    | 48.6  | 13.4   | 35.6 | 89.3 | 1.5  | 55.8            | 399        | 17  |
| Lab #0483  | 04-27-16     | 1.7                    | 41.2  | 11.6   | 45.5 | 82.2 | 3.0  | 62.8            | 413        | 38  |
| Lab #0668  | 06-03-16     | 3.6                    | 47.8  | 11.9   | 36.7 | 92.5 | 1.2  | 55.8            | 413        | 13  |
| ASH GROVE AGGREGATES INC-WHEATLAND, BUTLER, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0048  | 02-03-16     | 0.7                    | 48.0  | 11.1   | 40.2 | 95.1 | 0.1  | 58.9            | 448        | 1   |
| Lab #0262  | 03-15-16     | 0.4                    | 49.5  | 12.7   | 37.4 | 96.5 | 0.2  | 57.4            | 443        | 2   |
| Lab #0479  | 04-27-16     | 1.4                    | 47.7  | 12.7   | 38.2 | 95.6 | 0.6  | 57.7            | 442        | 7   |
| Lab #0638  | 05-25-16     | 0.7                    | 47.6  | 12.3   | 39.4 | 96.8 | 0.1  | 58.7            | 454        | 1   |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0049  | 02-03-16     | 0.8                    | 45.1  | 14.3   | 39.8 | 95.3 | 0.1  | 59.7            | 455        | 1   |
| Lab #0263  | 03-15-16     | 1.3                    | 42.3  | 14.6   | 41.8 | 94.7 | 0.2  | 61.1            | 463        | 2   |
| Lab #0480  | 04-27-16     | 1.2                    | 45.6  | 13.9   | 39.3 | 93.0 | 0.2  | 59.0            | 439        | 2   |
| Lab #0639  | 05-25-16     | 1.5                    | 46.3  | 13.8   | 38.4 | 96.2 | 0.2  | 58.3            | 448        | 2   |
| Stockpile #3   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0050  | 02-03-16     | 0.1                    | 36.5  | 16.0   | 47.4 | 94.9 | 0.3  | 66.1            | 502        | 4   |
| Lab #0264  | 03-15-16     | 1.3                    | 44.5  | 13.1   | 41.1 | 97.2 | 0.1  | 60.1            | 467        | 1   |
| Lab #0481  | 04-27-16     | 2.9                    | 48.3  | 12.2   | 36.6 | 95.4 | 0.1  | 56.0            | 427        | 1   |
| Lab #0640  | 05-25-16     | 3.0                    | 48.7  | 12.1   | 36.2 | 95.8 | 0.3  | 55.6            | 426        | 3   |
| ASH GROVE AGGREGATES INC-BUFFALO, BUTLER, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0201  | 03-01-16     | 1.2                    | 41.4  | 12.1   | 45.3 | 91.7 | 11.3 | 62.9            | 462        | 142 |
| Lab #0353  | 04-05-16     | 0.6                    | 40.5  | 11.0   | 47.9 | 94.0 | 11.1 | 64.6            | 486        | 143 |
| Lab #0521  | 05-04-16     | 2.1                    | 35.7  | 13.1   | 49.1 | 93.0 | 11.7 | 65.9            | 490        | 154 |
| Lab #0707  | 06-06-16     | 1.3                    | 40.0  | 12.5   | 46.2 | 93.9 | 11.5 | 63.7            | 479        | 147 |
| BAILEY QUARRIES INC-CHESAPEAKE Q., REPUBLIC, MO          |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0043  | 02-02-16     | 1.7                    | 50.0  | 10.6   | 37.7 | 99.2 | 12.2 | 56.6            | 449        | 138 |
| Lab #0338  | 03-29-16     | 0.1                    | 53.3  | 9.9    | 36.7 | 98.5 | 11.8 | 56.0            | 441        | 132 |
| Lab #0532  | 05-04-16     | 0.2                    | 45.9  | 11.7   | 42.2 | 97.7 | 12.2 | 60.7            | 474        | 148 |
| Lab #0703  | 06-07-16     | 0.3                    | 45.2  | 10.4   | 44.1 | 93.4 | 11.5 | 61.6            | 461        | 142 |
| BAILEY QUARRIES, INC -EUDORA QUARRY, REPUBLIC, MO        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0123  | 02-18-16     | 0.3                    | 39.3  | 19.0   | 41.4 | 95.0 | 0.1  | 62.6            | 476        | 1   |
| Lab #0375  | 04-07-16     | 0.4                    | 42.1  | 17.6   | 39.9 | 95.7 | 0.1  | 61.0            | 467        | 1   |
| Lab #0530  | 05-04-16     | 0.5                    | 44.4  | 16.2   | 38.9 | 95.1 | 0.2  | 59.7            | 454        | 2   |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0124  | 02-18-16     | 0.2                    | 46.7  | 15.1   | 38.0 | 92.5 | 0.4  | 58.7            | 435        | 5   |
| Lab #0376  | 04-07-16     | 0.8                    | 45.4  | 16.2   | 37.6 | 94.3 | 0.3  | 58.7            | 443        | 4   |
| Lab #0531  | 05-04-16     | 2.2                    | 49.1  | 14.8   | 33.9 | 94.9 | 0.2  | 55.1            | 418        | 2   |
| BAILEY QUARRIES INC-JANE, REPUBLIC, MO                   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0209  | 03-04-16     | 0.1                    | 46.7  | 10.4   | 42.8 | 87.1 | 10.8 | 60.7            | 423        | 131 |
| BAILEY QUARRIES, INC.-MADRY QUARRY, REPUBLIC, MO         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0244  | 03-11-16     | 2.1                    | 55.7  | 9.5    | 32.7 | 81.3 | 1.2  | 52.3            | 340        | 13  |
| Lab #0540  | 05-06-16     | 2.2                    | 55.6  | 10.1   | 32.1 | 82.9 | 1.2  | 52.1            | 345        | 12  |
| BAILEY QUARRIES - SARCOXIE, REPUBLIC, MO                 |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0044  | 02-03-16     | 0.1                    | 37.9  | 17.7   | 44.3 | 95.2 | 0.2  | 64.4            | 490        | 3   |
| Lab #0387  | 04-11-16     | 0.6                    | 39.8  | 16.4   | 43.2 | 94.5 | 0.2  | 63.0            | 476        | 3   |
| BAILEY QUARRIES INC-STOCKTON, REPUBLIC, MO               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0214  | 03-07-16     | 2.5                    | 49.2  | 13.5   | 34.8 | 96.6 | 0.1  | 55.2            | 427        | 1   |
| BARRETT MATERIALS, INC. - BELLE, NEW HAVEN, MO           |              |                        |       |        |      |      |      |                 |            |     |
| BARRETT MATERIALS INC, NEW HAVEN, MO                     |              |                        |       |        |      |      |      |                 |            |     |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                                       | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE  | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|-------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |       |      |                 | ENM        | EMg |
| BASE ROCK MINERALS, BONNE TERRE, MO               |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0221   | 03-08-16     | 0.5                    | 47.6  | 12.6   | 39.3 | 95.8  | 11.6 | 58.8            | 450        | 136 |
| Lab #0333   | 03-29-16     | 1.1                    | 46.8  | 12.6   | 39.5 | 94.1  | 11.1 | 58.8            | 442        | 130 |
| Stockpile #2                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0222   | 03-08-16     | 0.0                    | 32.8  | 19.1   | 48.1 | 101.6 | 12.1 | 67.8            | 551        | 164 |
| Lab #0334   | 03-29-16     | 0.2                    | 27.9  | 19.1   | 52.8 | 102.1 | 11.6 | 71.2            | 582        | 165 |
| BMC STONE, LLC, DEFIANCE, MO                      |              |                        |       |        |      |       |      |                 |            |     |
| BOONE QUARRIES, INC. - BOONVILLE, BOONVILLE, MO   |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0715   | 06-08-16     | 4.1                    | 50.6  | 13.3   | 32.0 | 93.6  | 0.1  | 52.6            | 394        | 1   |
| Stockpile #2                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0716   | 06-08-16     | 5.0                    | 48.7  | 13.5   | 32.8 | 92.9  | 0.1  | 53.1            | 394        | 1   |
| BOONE QUARRIES INC - WEST, COLUMBIA, MO           |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #3                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0033   | 02-01-16     | 0.8                    | 31.6  | 10.8   | 56.8 | 94.1  | 1.5  | 71.2            | 536        | 21  |
| Lab #0189   | 03-02-16     | 1.3                    | 29.4  | 9.0    | 60.3 | 90.3  | 3.7  | 73.1            | 528        | 54  |
| Lab #0320   | 03-25-16     | 0.4                    | 26.7  | 12.1   | 60.8 | 96.5  | 2.1  | 74.7            | 577        | 31  |
| Lab #0511   | 05-04-16     | 5.2                    | 34.6  | 7.7    | 52.5 | 90.8  | 3.9  | 65.8            | 478        | 51  |
| Lab #0585   | 05-18-16     | 1.8                    | 25.1  | 9.1    | 64.0 | 97.1  | 2.7  | 75.7            | 588        | 41  |
| BOONE QUARRIES INC - NORTH, COLUMBIA, MO          |              |                        |       |        |      |       |      |                 |            |     |
| BOONE QUARRIES - EAST, COLUMBIA, MO               |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0032   | 02-01-16     | 6.1                    | 24.0  | 12.4   | 57.5 | 89.6  | 4.4  | 70.9            | 508        | 62  |
| Lab #0188   | 03-02-16     | 3.8                    | 20.5  | 15.0   | 60.7 | 90.6  | 4.1  | 74.8            | 542        | 61  |
| Lab #0319   | 03-25-16     | 4.9                    | 23.4  | 13.1   | 58.6 | 89.6  | 3.5  | 72.3            | 518        | 51  |
| Lab #0512   | 05-04-16     | 2.2                    | 12.9  | 13.5   | 71.4 | 97.3  | 2.5  | 82.7            | 644        | 41  |
| Lab #0586   | 05-18-16     | 5.2                    | 22.5  | 12.6   | 59.7 | 90.4  | 4.0  | 72.9            | 527        | 58  |
| BOONE QUARRIES, INC.- MARSHALL, MARSHALL, MO      |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #5                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0689   | 06-06-16     | 6.5                    | 49.7  | 9.3    | 34.5 | 90.0  | 3.3  | 52.5            | 378        | 35  |
| BOONE QUARRIES INC. - SEDALIA, COLUMBIA, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #2                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0011   | 01-13-16     | 1.7                    | 49.6  | 8.9    | 39.8 | 86.4  | 5.7  | 57.5            | 398        | 66  |
| Lab #0146   | 02-22-16     | 2.2                    | 50.7  | 9.1    | 38.0 | 87.4  | 6.0  | 56.1            | 392        | 67  |
| Lab #0292   | 03-17-16     | 3.2                    | 56.3  | 9.1    | 31.4 | 89.0  | 5.2  | 50.9            | 363        | 53  |
| Lab #0417   | 04-13-16     | 3.1                    | 54.9  | 8.6    | 33.4 | 88.2  | 5.7  | 52.3            | 369        | 60  |
| Lab #0573   | 05-12-16     | 1.7                    | 50.0  | 11.4   | 36.9 | 91.3  | 6.1  | 56.2            | 411        | 69  |
| Lab #0691   | 06-07-16     | 4.5                    | 55.3  | 8.2    | 32.0 | 88.2  | 5.7  | 50.7            | 358        | 58  |
| Stockpile #4                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0010   | 01-13-16     | 1.5                    | 48.2  | 11.2   | 39.1 | 96.5  | 1.2  | 57.9            | 447        | 14  |
| Lab #0145   | 02-22-16     | 2.8                    | 50.4  | 12.1   | 34.7 | 97.7  | 1.2  | 54.6            | 426        | 13  |
| Lab #0291   | 03-17-16     | 2.0                    | 50.1  | 12.0   | 35.9 | 97.0  | 1.5  | 55.6            | 432        | 17  |
| Lab #0416   | 04-13-16     | 2.2                    | 49.6  | 11.6   | 36.6 | 97.4  | 1.3  | 56.0            | 436        | 15  |
| Lab #0572   | 05-12-16     | 3.4                    | 49.4  | 11.4   | 35.8 | 96.9  | 1.9  | 55.0            | 426        | 21  |
| Lab #0690   | 06-07-16     | 4.0                    | 51.4  | 10.3   | 34.3 | 96.0  | 2.2  | 53.3            | 410        | 23  |
| BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0109   | 02-18-16     | 0.0                    | 0.2   | 0.6    | 99.2 | 99.4  | 8.8  | 99.6            | 792        | 175 |
| Lab #0426   | 04-19-16     | 0.0                    | 0.4   | 0.7    | 98.9 | 102.2 | 9.3  | 99.4            | 813        | 185 |
| Lab #0601   | 05-19-16     | 0.0                    | 0.6   | 0.6    | 98.8 | 102.1 | 10.3 | 99.3            | 811        | 205 |
| Stockpile #2                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0427   | 04-19-16     | 0.2                    | 30.1  | 15.2   | 54.5 | 97.0  | 1.5  | 71.1            | 552        | 21  |
| Lab #0602   | 05-19-16     | 0.1                    | 30.6  | 12.6   | 56.7 | 97.2  | 2.7  | 71.9            | 559        | 39  |
| CALCIUM PRODUCTS, INC., AMES, IA                  |              |                        |       |        |      |       |      |                 |            |     |
| CANTERA AGGREGATE INC, CORYDON, IA                |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0140   | 02-22-16     | 12.0*                  | 39.5  | 7.4    | 41.1 | 75.3  | 0.4  | 55.4            | 0          | 0   |
| Stockpile #3                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0395   | 04-11-16     | 13.1*                  | 40.3  | 8.5    | 38.1 | 76.5  | 0.3  | 53.3            | 0          | 0   |
| CAPITAL MATERIALS - SOUTH DELL, CLINTON, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0517   | 05-02-16     | 3.4                    | 48.9  | 12.0   | 35.7 | 93.0  | 0.7  | 55.1            | 410        | 8   |
| Lab #0665   | 06-02-16     | 11.2*                  | 46.8  | 10.6   | 31.4 | 94.3  | 0.8  | 49.5            | 0          | 0   |
| CAPITAL MATERIALS - TIGHTWAD, CLINTON, MO         |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                      |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0519   | 05-02-16     | 13.4*                  | 40.9  | 10.7   | 35.0 | 86.5  | 0.5  | 51.6            | 0          | 0   |
| Lab #0590   | 05-19-16     | 3.3                    | 48.1  | 11.2   | 37.4 | 87.9  | 0.4  | 56.1            | 395        | 4   |
| Lab #0642   | 05-27-16     | 2.9                    | 48.8  | 10.9   | 37.4 | 89.1  | 0.5  | 56.1            | 400        | 6   |
| Lab #0667   | 06-02-16     | 3.0                    | 46.8  | 11.0   | 39.2 | 85.0  | 0.4  | 57.5            | 391        | 5   |

**TABLE 1**  
**AGRICULTURAL LIMING MATERIALS SAMPLED FROM**  
**JANUARY 1 THROUGH JUNE 30, 2016**

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE  | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|-------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |       |      |                 | ENM        | EMg |
| CAPITAL MATERIALS - BAGNELL 13, CLINTON, MO             |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0560   | 05-12-16     | 6.3                    | 41.1  | 13.7   | 38.9 | 95.1  | 11.6 | 57.4            | 437        | 133 |
| CAPITAL QUARRIES CO., INC.-ARCADIA, JEFFERSON CITY, MO  |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0219   | 03-08-16     | 2.9                    | 50.3  | 12.5   | 34.3 | 98.2  | 11.9 | 54.4            | 427        | 129 |
| CAPITAL QUARRIES, INC.- CEDAR CITY, JEFFERSON CITY, MO  |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0026   | 02-02-16     | 0.2                    | 47.9  | 11.4   | 40.5 | 89.9  | 1.3  | 59.3            | 427        | 15  |
| Lab #0363   | 04-06-16     | 0.1                    | 44.4  | 13.5   | 42.0 | 89.6  | 1.4  | 61.2            | 439        | 17  |
| Lab #0588   | 05-16-16     | 0.6                    | 50.0  | 11.3   | 38.1 | 87.7  | 1.3  | 57.4            | 403        | 15  |
| CAPITAL QUARRIES, INC.- DANVILLE, JEFFERSON CITY, MO    |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0468   | 04-22-16     | 2.1                    | 50.6  | 11.2   | 36.1 | 92.4  | 2.1  | 55.5            | 410        | 23  |
| Lab #0515   | 05-03-16     | 0.7                    | 46.2  | 12.1   | 41.0 | 91.1  | 2.5  | 59.8            | 436        | 30  |
| CAPITAL QUARRIES CO., INC- EUGENE, JEFFERSON CITY, MO   |              |                        |       |        |      |       |      |                 |            |     |
| CAPITAL QUARRIES CO., INC.-OWENSVIL, JEFFERSON CITY, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0195   | 03-02-16     | 0.2                    | 41.8  | 10.1   | 47.9 | 91.3  | 11.2 | 64.4            | 470        | 144 |
| Lab #0364   | 04-07-16     | 0.7                    | 44.8  | 10.7   | 43.8 | 88.6  | 10.4 | 61.4            | 435        | 128 |
| Lab #0657   | 06-01-16     | 1.2                    | 42.1  | 10.5   | 46.2 | 90.5  | 11.0 | 63.0            | 456        | 139 |
| CAPITAL QUARRIES, INC-STADIUM WEST, JEFFERSON CITY, MO  |              |                        |       |        |      |       |      |                 |            |     |
| CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO     |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0029   | 02-04-16     | 3.3                    | 17.3  | 10.9   | 68.5 | 90.6  | 11.1 | 79.4            | 575        | 176 |
| Lab #0297   | 03-21-16     | 4.5                    | 20.7  | 9.0    | 65.8 | 90.1  | 10.5 | 76.4            | 551        | 160 |
| CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0005   | 01-06-16     | 1.6                    | 52.0  | 9.9    | 36.5 | 87.7  | 3.3  | 55.4            | 389        | 37  |
| Lab #0101   | 02-15-16     | 11.5*                  | 47.7  | 8.6    | 32.2 | 81.5  | 5.8  | 49.3            | 0          | 0   |
| Lab #0242   | 03-07-16     | 0.8                    | 47.5  | 12.3   | 39.4 | 90.4  | 2.6  | 58.7            | 424        | 31  |
| Lab #0287   | 03-17-16     | 0.3                    | 45.5  | 13.0   | 41.2 | 91.3  | 2.3  | 60.4            | 441        | 28  |
| Lab #0321   | 03-22-16     | 0.6                    | 44.2  | 12.3   | 42.9 | 91.0  | 2.2  | 61.3            | 446        | 27  |
| Lab #0401   | 04-12-16     | 0.7                    | 42.5  | 12.5   | 44.3 | 89.7  | 2.0  | 62.4            | 448        | 25  |
| Lab #0546   | 05-09-16     | 0.4                    | 46.0  | 12.0   | 41.6 | 90.1  | 2.5  | 60.3            | 435        | 30  |
| Lab #0717   | 06-08-16     | 0.6                    | 46.3  | 12.3   | 40.8 | 90.8  | 1.9  | 59.8            | 434        | 23  |
| CAPITAL QUARRIES INC.-HERMANN #14, JEFFERSON CITY, MO   |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0168   | 02-24-16     | 0.2                    | 44.4  | 9.2    | 46.2 | 89.4  | 11.2 | 62.8            | 449        | 141 |
| Lab #0428   | 04-20-16     | 1.4                    | 43.4  | 10.6   | 44.6 | 89.4  | 10.6 | 61.8            | 442        | 131 |
| Lab #0627   | 05-24-16     | 0.1                    | 42.9  | 9.7    | 47.3 | 88.9  | 11.3 | 63.8            | 454        | 144 |
| CAPITAL QUARRIES INC. -HOLTS SUMMIT, JEFFERSON CITY, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0090   | 02-16-16     | 8.0                    | 42.2  | 9.0    | 40.8 | 70.2  | 0.5  | 56.8            | 319        | 6   |
| Lab #0422   | 04-18-16     | 8.7                    | 44.8  | 9.0    | 37.5 | 70.9  | 0.4  | 54.1            | 307        | 4   |
| Lab #0549   | 05-11-16     | 8.0                    | 41.3  | 9.1    | 41.6 | 72.7  | 0.6  | 57.4            | 334        | 7   |
| CAPITAL QUARRIES CO., - LINN, JEFFERSON CITY, MO        |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0194   | 03-02-16     | 0.8                    | 45.5  | 10.1   | 43.6 | 92.6  | 11.4 | 61.0            | 452        | 139 |
| Lab #0272   | 03-17-16     | 0.3                    | 45.7  | 9.5    | 44.5 | 93.3  | 11.5 | 61.6            | 460        | 142 |
| Lab #0589   | 05-18-16     | 0.2                    | 44.1  | 10.7   | 45.0 | 92.5  | 11.5 | 62.4            | 462        | 144 |
| CAPITAL QUARRIES, INC - SALEM, JEFFERSON CITY, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0169   | 02-25-16     | 2.8                    | 39.1  | 10.3   | 47.8 | 93.6  | 11.6 | 63.8            | 477        | 148 |
| Lab #0352   | 04-05-16     | 3.3                    | 40.1  | 10.7   | 45.9 | 96.0  | 11.2 | 62.3            | 479        | 140 |
| CAPITAL QUARRIES INC-SULLIVAN, JEFFERSON CITY, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0065   | 02-09-16     | 6.5                    | 47.4  | 10.9   | 35.2 | 92.8  | 11.3 | 53.6            | 398        | 121 |
| Lab #0385   | 04-12-16     | 6.3                    | 43.5  | 14.2   | 36.0 | 100.3 | 11.8 | 55.4            | 444        | 131 |
| Lab #0606   | 05-23-16     | 8.0                    | 46.2  | 13.3   | 32.5 | 98.0  | 11.8 | 52.0            | 408        | 123 |
| CARTHAGE CRUSHED LIMESTONE, CARTHAGE, MO                |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0228   | 03-08-16     | 0.0                    | 0.4   | 2.1    | 97.5 | 97.1  | 0.1  | 98.9            | 768        | 2   |
| Lab #0624   | 05-24-16     | 0.0                    | 2.1   | 2.6    | 95.3 | 97.2  | 0.4  | 97.4            | 757        | 8   |
| Stockpile #2  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0229   | 03-08-16     | 0.2                    | 2.1   | 3.5    | 94.2 | 96.9  | 0.1  | 96.8            | 751        | 2   |
| Lab #0625   | 05-24-16     | 0.0                    | 0.6   | 1.5    | 97.9 | 97.3  | 0.2  | 99.0            | 770        | 4   |
| Stockpile #3  |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0230   | 03-08-16     | 0.0                    | 0.4   | 1.7    | 97.9 | 97.2  | 0.1  | 99.0            | 770        | 2   |
| Lab #0626   | 05-24-16     | 0.0                    | 0.3   | 1.7    | 98.0 | 97.4  | 0.2  | 99.1            | 772        | 4   |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO    |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0053   | 02-04-16     | 0.8                    | 30.9  | 12.8   | 55.5 | 76.4 | 0.1  | 70.9            | 433        | 1   |
| Lab #0544   | 05-05-16     | 0.6                    | 41.2  | 15.7   | 42.5 | 87.6 | 0.1  | 62.2            | 436        | 1   |
| Lab #0616   | 05-24-16     | 1.5                    | 35.2  | 13.2   | 50.1 | 80.2 | 0.1  | 66.8            | 429        | 1   |
| Stockpile #3  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0054   | 02-04-16     | 1.3                    | 34.1  | 12.6   | 52.0 | 94.0 | 0.3  | 68.1            | 512        | 4   |
| Lab #0184   | 02-24-16     | 1.7                    | 34.2  | 14.3   | 49.8 | 95.2 | 0.3  | 66.9            | 510        | 4   |
| Lab #0545   | 05-05-16     | 0.9                    | 36.6  | 12.9   | 49.6 | 94.5 | 0.5  | 66.5            | 503        | 7   |
| Lab #0615   | 05-24-16     | 0.9                    | 33.4  | 19.1   | 46.6 | 76.2 | 0.4  | 66.4            | 405        | 5   |
| Stockpile #4  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0055   | 02-04-16     | 0.1                    | 2.3   | 15.1   | 82.5 | 77.1 | 0.5  | 92.1            | 568        | 9   |
| Lab #0183   | 02-24-16     | 0.8                    | 3.3   | 15.2   | 80.7 | 83.3 | 0.4  | 90.6            | 604        | 7   |
| Lab #0543   | 05-05-16     | 0.1                    | 1.8   | 12.5   | 85.6 | 95.5 | 1.1  | 93.6            | 715        | 21  |
| Lab #0614   | 05-24-16     | 0.0                    | 1.4   | 10.0   | 88.6 | 94.5 | 1.0  | 95.0            | 718        | 19  |
| CENTRAL STONE COMPANY-ANTONIA, HANNIBAL, MO         |              |                        |       |        |      |      |      |                 |            |     |
| CENTRAL STONE COMPANY - BETHEL, SHELBYVILLE, MO     |              |                        |       |        |      |      |      |                 |            |     |
| CENTRAL STONE COMPANY - FARMINGTON, FARMINGTON, MO  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #3  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0220   | 03-08-16     | 0.0                    | 0.1   | 1.1    | 98.8 | 91.6 | 3.7  | 99.5            | 729        | 74  |
| Lab #0332   | 03-29-16     | 0.0                    | 0.7   | 1.3    | 98.0 | 92.4 | 3.5  | 99.0            | 731        | 69  |
| CENTRAL STONE CO - FORT BELLE - #31, FLORISSANT, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0233   | 03-03-16     | 1.3                    | 0.7   | 1.7    | 96.3 | 89.3 | 3.4  | 97.5            | 697        | 66  |
| Lab #0459   | 04-13-16     | 0.0                    | 0.2   | 1.3    | 98.5 | 90.0 | 2.9  | 99.3            | 715        | 58  |
| Lab #0508   | 05-03-16     | 0.0                    | 0.2   | 1.3    | 98.5 | 90.1 | 3.0  | 99.3            | 716        | 60  |
| Lab #0677   | 06-02-16     | 0.0                    | 0.2   | 1.1    | 98.7 | 91.9 | 3.0  | 99.4            | 731        | 60  |
| CENTRAL STONE COMPANY - PARIS, PARIS, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0037   | 02-01-16     | 3.8                    | 45.3  | 12.1   | 38.8 | 90.2 | 0.3  | 57.4            | 414        | 3   |
| Lab #0191   | 03-01-16     | 5.8                    | 48.0  | 11.8   | 34.4 | 89.3 | 0.3  | 53.5            | 382        | 3   |
| Lab #0316   | 03-24-16     | 6.6                    | 46.8  | 12.8   | 33.8 | 89.8 | 0.4  | 53.2            | 382        | 4   |
| Lab #0384   | 04-06-16     | 5.0                    | 48.4  | 12.9   | 33.7 | 89.8 | 0.3  | 53.5            | 385        | 3   |
| Lab #0492   | 04-21-16     | 7.2                    | 47.5  | 12.0   | 33.3 | 89.1 | 0.3  | 52.4            | 373        | 3   |
| Lab #0612   | 05-20-16     | 5.6                    | 47.4  | 11.8   | 35.2 | 90.3 | 0.3  | 54.1            | 391        | 3   |
| Lab #0696   | 06-07-16     | 5.3                    | 47.8  | 11.4   | 35.5 | 89.8 | 0.3  | 54.3            | 390        | 3   |
| CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO  |              |                        |       |        |      |      |      |                 |            |     |
| CENTRAL STONE COMPANY - PERRY, HANNIBAL, MO         |              |                        |       |        |      |      |      |                 |            |     |
| CENTRAL STONE COMPANY - EWING, HANNIBAL, MO         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0156   | 02-18-16     | 2.3                    | 34.3  | 12.1   | 51.3 | 81.7 | 0.2  | 67.1            | 439        | 3   |
| Lab #0305   | 03-17-16     | 2.4                    | 35.6  | 11.6   | 50.4 | 81.6 | 0.1  | 66.3            | 433        | 1   |
| Lab #0460   | 04-14-16     | 2.1                    | 35.0  | 11.4   | 51.5 | 81.1 | 0.2  | 67.1            | 435        | 3   |
| Lab #0580   | 05-16-16     | 2.0                    | 34.2  | 11.3   | 52.5 | 81.9 | 0.2  | 67.8            | 444        | 3   |
| CENTRAL STONE COMPANY - TAYLOR, TAYLOR, MO          |              |                        |       |        |      |      |      |                 |            |     |
| CLEVER STONE CO, CLEVER, MO                         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0096   | 02-15-16     | 3.4                    | 51.9  | 12.4   | 32.3 | 93.0 | 0.1  | 52.7            | 392        | 1   |
| Lab #0390   | 04-13-16     | 0.1                    | 49.0  | 14.2   | 36.7 | 93.9 | 0.2  | 57.5            | 432        | 2   |
| Lab #0593   | 05-16-16     | 0.0                    | 50.5  | 14.9   | 34.6 | 93.6 | 0.1  | 56.2            | 421        | 1   |
| CONCO QUARRIES INC Q US 160, WILLARD, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0160   | 02-25-16     | 0.3                    | 24.0  | 17.9   | 57.8 | 97.0 | 0.2  | 74.5            | 578        | 3   |
| Lab #0348   | 04-04-16     | 0.3                    | 27.8  | 16.3   | 55.6 | 97.8 | 0.8  | 72.3            | 566        | 12  |
| Lab #0564   | 05-10-16     | 0.0                    | 11.4  | 15.9   | 72.7 | 98.4 | 0.2  | 85.1            | 670        | 3   |
| Lab #0660   | 05-31-16     | 0.0                    | 7.2   | 12.6   | 80.2 | 97.7 | 0.2  | 89.6            | 700        | 4   |
| Lab #0664   | 06-03-16     | 0.0                    | 7.7   | 13.9   | 78.4 | 97.7 | 0.2  | 88.7            | 693        | 4   |
| COUNTY LINE QUARRY, WELLSVILLE, MO                  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0185   | 02-25-16     | 4.1                    | 43.1  | 8.9    | 43.9 | 92.1 | 5.6  | 60.0            | 442        | 67  |
| Lab #0374   | 03-30-16     | 5.7                    | 46.3  | 9.9    | 38.1 | 92.9 | 5.3  | 55.6            | 413        | 59  |
| Lab #0613   | 05-23-16     | 4.4                    | 49.3  | 9.6    | 36.7 | 91.4 | 5.2  | 54.8            | 401        | 57  |
| COUNTY LINE STONE, CASSVILLE, MO                    |              |                        |       |        |      |      |      |                 |            |     |
| CRAWFORD LIME & MATERIAL CO, CUBA, MO               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0171   | 02-25-16     | 2.4                    | 46.0  | 9.2    | 42.4 | 88.3 | 10.8 | 59.4            | 420        | 128 |
| Lab #0347   | 04-04-16     | 2.2                    | 32.7  | 10.6   | 54.5 | 83.9 | 9.8  | 69.0            | 463        | 135 |
| Lab #0516   | 05-04-16     | 2.5                    | 32.6  | 10.6   | 54.3 | 83.2 | 10.3 | 68.8            | 458        | 142 |



TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                                  | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE  | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|-------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |       |      |                 | ENM        | EMg |
| CRIDER BROTHERS LIME CO., INC., EMINENCE, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0057                                    | 02-01-16     | 4.2                    | 45.4  | 13.3   | 37.1 | 100.6 | 11.6 | 56.4            | 454        | 131 |
| Lab #0636                                    | 05-26-16     | 5.6                    | 49.0  | 12.4   | 33.0 | 98.5  | 11.4 | 52.7            | 415        | 120 |
| D & D SUPPLY LLC, LONE JACK, MO              |              |                        |       |        |      |       |      |                 |            |     |
| DOSS & HARPER STONE CO., HOUSTON, MO         |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #2                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0306                                    | 03-21-16     | 0.0                    | 40.3  | 17.2   | 42.5 | 92.8  | 11.0 | 62.9            | 467        | 138 |
| DOSS & HARPER STONE CO, WEST PLAINS, MO      |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0307                                    | 03-21-16     | 0.5                    | 54.4  | 8.6    | 36.5 | 85.9  | 10.1 | 55.3            | 380        | 112 |
| DOUBLE EAGLE AGGREGATES, MILLER, MO          |              |                        |       |        |      |       |      |                 |            |     |
| DOUBLE EAGLE AGGREGATES CO., INC, MILLER, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0226                                    | 03-07-16     | 0.3                    | 42.9  | 10.4   | 46.4 | 82.7  | 9.8  | 63.4            | 419        | 124 |
| Lab #0623                                    | 05-23-16     | 0.5                    | 44.0  | 9.5    | 46.0 | 88.4  | 10.8 | 62.7            | 443        | 135 |
| Lab #0704                                    | 06-08-16     | 0.8                    | 50.3  | 11.8   | 37.1 | 80.8  | 9.5  | 56.8            | 367        | 108 |
| E & S ROCK, LLC, HOLDEN, MO                  |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0003                                    | 01-05-16     | 4.1                    | 55.2  | 11.6   | 29.1 | 81.9  | 1.5  | 49.9            | 327        | 15  |
| Lab #0105                                    | 02-16-16     | 7.0                    | 63.4  | 8.8    | 20.8 | 82.1  | 1.5  | 41.9            | 275        | 13  |
| Lab #0343                                    | 03-29-16     | 3.2                    | 57.8  | 10.5   | 28.5 | 84.0  | 2.0  | 49.3            | 331        | 20  |
| Lab #0475                                    | 04-22-16     | 3.4                    | 55.2  | 11.4   | 30.0 | 83.6  | 2.1  | 50.6            | 339        | 21  |
| Lab #0620                                    | 05-23-16     | 4.5                    | 54.5  | 11.4   | 29.6 | 84.7  | 2.1  | 50.1            | 339        | 21  |
| Stockpile #2                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0004                                    | 01-05-16     | 2.2                    | 44.7  | 9.6    | 43.5 | 74.1  | 1.5  | 60.4            | 358        | 18  |
| Lab #0106                                    | 02-16-16     | 2.2                    | 50.2  | 11.7   | 35.9 | 74.1  | 1.6  | 55.5            | 329        | 18  |
| Lab #0344                                    | 03-29-16     | 2.2                    | 51.2  | 11.3   | 35.3 | 77.4  | 1.7  | 54.9            | 340        | 19  |
| Lab #0478                                    | 04-22-16     | 1.5                    | 49.1  | 12.4   | 37.0 | 76.7  | 1.7  | 56.7            | 348        | 19  |
| Lab #0621                                    | 05-23-16     | 2.3                    | 54.3  | 10.9   | 32.5 | 80.8  | 1.9  | 52.6            | 340        | 20  |
| Stockpile #3                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0002                                    | 01-05-16     | 1.0                    | 42.3  | 12.0   | 44.7 | 72.8  | 1.6  | 62.5            | 364        | 20  |
| Lab #0104                                    | 02-16-16     | 0.9                    | 45.4  | 12.2   | 41.5 | 71.9  | 1.6  | 60.2            | 346        | 19  |
| Lab #0342                                    | 03-29-16     | 1.1                    | 53.7  | 10.9   | 34.3 | 76.1  | 1.7  | 54.3            | 330        | 18  |
| Lab #0474                                    | 04-22-16     | 1.5                    | 49.5  | 11.0   | 38.0 | 77.8  | 2.1  | 57.0            | 355        | 24  |
| Lab #0619                                    | 05-23-16     | 0.8                    | 42.0  | 12.9   | 44.3 | 73.0  | 2.1  | 62.5            | 365        | 26  |
| FISCHER QUARRY & HAULING, LLC, ST. MARY, MO  |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0442                                    | 04-21-16     | 4.3                    | 54.3  | 12.6   | 28.8 | 98.8  | 0.1  | 49.9            | 395        | 1   |
| GABEL STONE COMPANY, INC, WILLOW SPRINGS, MO |              |                        |       |        |      |       |      |                 |            |     |
| GROVE ROCK QUARRY, MOUNTAIN GROVE, MO        |              |                        |       |        |      |       |      |                 |            |     |
| HEARTLAND MATERIALS LLC, JACKSON, MO         |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0056                                    | 02-02-16     | 0.5                    | 35.8  | 15.3   | 48.4 | 97.0  | 2.2  | 66.5            | 516        | 29  |
| Lab #0284                                    | 03-18-16     | 0.4                    | 33.4  | 17.0   | 49.2 | 96.5  | 2.0  | 67.8            | 523        | 27  |
| Lab #0448                                    | 04-20-16     | 0.5                    | 39.4  | 15.6   | 44.5 | 99.6  | 2.5  | 63.7            | 508        | 32  |
| Lab #0566                                    | 05-12-16     | 0.7                    | 35.9  | 15.1   | 48.3 | 98.0  | 2.5  | 66.3            | 520        | 33  |
| HIGGINS QUARRY, LLC, LOOSE CREEK, MO         |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #2                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0068                                    | 02-11-16     | 1.8                    | 37.8  | 11.3   | 49.1 | 84.9  | 10.4 | 65.3            | 444        | 136 |
| Lab #0368                                    | 04-07-16     | 0.7                    | 50.1  | 11.1   | 38.1 | 86.2  | 10.1 | 57.3            | 395        | 116 |
| Lab #0550                                    | 05-12-16     | 0.4                    | 48.0  | 10.1   | 41.5 | 87.4  | 11.2 | 59.6            | 416        | 133 |
| HIGGINS MATERIALS, LLC, OTTERVILLE, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0075                                    | 02-11-16     | 10.7*                  | 58.4  | 8.3    | 22.6 | 90.1  | 1.9  | 42.2            | 0          | 0   |
| Lab #0103                                    | 02-15-16     | 14.4*                  | 60.6  | 6.8    | 18.2 | 91.5  | 1.5  | 37.4            | 0          | 0   |
| Stockpile #2                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0243                                    | 03-07-16     | 1.2                    | 57.9  | 13.1   | 27.8 | 91.1  | 1.4  | 50.1            | 365        | 14  |
| Lab #0290                                    | 03-17-16     | 0.4                    | 65.0  | 12.0   | 22.6 | 87.9  | 1.2  | 46.1            | 324        | 11  |
| Lab #0322                                    | 03-22-16     | 0.6                    | 58.3  | 14.1   | 27.0 | 91.2  | 0.5  | 50.0            | 365        | 5   |
| Lab #0329                                    | 03-25-16     | 0.8                    | 48.5  | 16.1   | 34.6 | 89.4  | 0.5  | 56.4            | 403        | 6   |
| Lab #0403                                    | 04-12-16     | 1.1                    | 43.4  | 15.4   | 40.1 | 86.2  | 1.3  | 60.2            | 415        | 16  |
| Lab #0553                                    | 05-09-16     | 3.9                    | 46.3  | 11.9   | 37.9 | 86.6  | 3.2  | 56.6            | 392        | 36  |
| Lab #0719                                    | 06-08-16     | 2.5                    | 31.9  | 15.0   | 50.6 | 86.0  | 2.8  | 67.6            | 465        | 38  |
| HOSTETLER QUARRY, LLC, BUFFALO, MO           |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                 |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0203                                    | 03-01-16     | 6.2                    | 47.1  | 7.6    | 39.1 | 87.8  | 10.6 | 55.4            | 389        | 118 |
| Lab #0354                                    | 04-05-16     | 6.2                    | 46.0  | 7.8    | 40.0 | 85.0  | 10.1 | 56.2            | 382        | 113 |
| Lab #0522                                    | 05-04-16     | 4.9                    | 45.1  | 7.3    | 42.7 | 88.9  | 11.1 | 58.4            | 415        | 130 |
| Lab #0706                                    | 06-06-16     | 8.9                    | 46.8  | 6.8    | 37.5 | 87.7  | 10.8 | 53.3            | 374        | 115 |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| HOUSE SPRINGS QUARRY, HOUSE SPRINGS, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0108   | 02-18-16     | 6.3                    | 39.5  | 6.7    | 47.5 | 94.0 | 4.2  | 61.4            | 462        | 52  |
| Lab #0269   | 03-16-16     | 9.4                    | 38.5  | 6.9    | 45.2 | 90.9 | 3.9  | 59.0            | 429        | 46  |
| Lab #0425   | 04-19-16     | 5.8                    | 40.2  | 6.5    | 47.5 | 96.7 | 4.5  | 61.5            | 475        | 55  |
| HUNTER STONE CO, ELLSINORE, MO                      |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0058   | 02-01-16     | 0.2                    | 46.8  | 13.2   | 39.8 | 97.3 | 11.9 | 59.4            | 463        | 141 |
| HUTCHENS CONSTRUCTION-PURDY, CASSVILLE, MO          |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0350   | 04-04-16     | 3.3                    | 50.7  | 13.0   | 33.0 | 96.8 | 0.3  | 53.5            | 414        | 3   |
| Lab #0360   | 04-06-16     | 2.9                    | 50.5  | 13.2   | 33.4 | 97.1 | 0.3  | 53.9            | 419        | 3   |
| Lab #0391   | 04-13-16     | 2.8                    | 50.1  | 13.1   | 34.0 | 96.7 | 0.3  | 54.4            | 421        | 3   |
| HUTCHENS CONSTRUCTION-EAGLE ROCK, CASSVILLE, MO     |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0046   | 02-04-16     | 1.9                    | 39.4  | 9.5    | 49.2 | 88.7 | 10.8 | 64.8            | 459        | 140 |
| Lab #0409   | 04-15-16     | 1.3                    | 40.3  | 9.6    | 48.8 | 88.3 | 10.6 | 64.6            | 457        | 137 |
| HUTCHENS CONSTRUCTION CO-SHELL KNOB, CASSVILLE, MO  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0047   | 02-04-16     | 2.5                    | 43.7  | 8.5    | 45.3 | 89.5 | 11.1 | 61.3            | 439        | 136 |
| Lab #0410   | 04-15-16     | 4.3                    | 41.6  | 9.0    | 45.1 | 91.4 | 11.2 | 60.9            | 445        | 136 |
| HUTCHENS CONSTRUCTION-WASHBURN, CASSVILLE, MO       |              |                        |       |        |      |      |      |                 |            |     |
| IDEKER INC, EXCELSIOR SPRINGS, MO                   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0115   | 02-15-16     | 0.6                    | 57.8  | 8.9    | 32.7 | 91.2 | 0.4  | 52.5            | 383        | 4   |
| Lab #0238   | 03-09-16     | 1.3                    | 57.0  | 10.9   | 30.8 | 90.3 | 0.4  | 51.6            | 373        | 4   |
| Lab #0547   | 05-06-16     | 0.1                    | 43.4  | 15.2   | 41.3 | 91.2 | 0.5  | 61.3            | 447        | 6   |
| Lab #0681   | 06-02-16     | 0.7                    | 55.2  | 10.3   | 33.8 | 91.2 | 0.5  | 53.8            | 392        | 5   |
| ILC RESOURCES, URBANDALE, IA                        |              |                        |       |        |      |      |      |                 |            |     |
| JASPER STONE LLC, JASPER, MO                        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0099   | 02-16-16     | 2.6                    | 46.2  | 12.4   | 38.8 | 95.7 | 0.2  | 57.8            | 442        | 2   |
| Lab #0359   | 04-06-16     | 3.5                    | 43.3  | 15.5   | 37.7 | 96.2 | 0.1  | 57.8            | 445        | 1   |
| Lab #0596   | 05-18-16     | 6.2                    | 43.3  | 16.4   | 34.1 | 97.6 | 0.2  | 54.8            | 428        | 2   |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0098   | 02-16-16     | 0.0                    | 1.1   | 4.8    | 94.1 | 97.4 | 0.2  | 97.3            | 758        | 4   |
| Lab #0358   | 04-06-16     | 0.1                    | 1.7   | 3.4    | 94.8 | 97.6 | 0.1  | 97.3            | 759        | 2   |
| Lab #0595   | 05-18-16     | 0.1                    | 1.1   | 2.6    | 96.2 | 97.3 | 0.2  | 98.0            | 763        | 4   |
| JENKINS QUARRY, CASSVILLE, MO                       |              |                        |       |        |      |      |      |                 |            |     |
| SANDERS, INC, LEACHVILLE, AR                        |              |                        |       |        |      |      |      |                 |            |     |
| JOPLIN STONE CO Q DUENWEG, JOPLIN, MO               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0045   | 02-03-16     | 0.1                    | 27.3  | 18.7   | 53.9 | 90.1 | 0.1  | 71.9            | 519        | 1   |
| Lab #0208   | 03-03-16     | 4.1                    | 42.5  | 14.8   | 38.6 | 96.2 | 0.1  | 58.1            | 447        | 1   |
| Lab #0388   | 04-11-16     | 4.2                    | 41.5  | 16.5   | 37.8 | 95.6 | 0.1  | 58.1            | 444        | 1   |
| LEO JOURNAGAN CONSTRUCTION CO, INC, SPRINGFIELD, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0095   | 02-15-16     | 2.4                    | 49.6  | 13.6   | 34.4 | 96.5 | 0.3  | 55.0            | 424        | 3   |
| Lab #0389   | 04-13-16     | 3.1                    | 49.3  | 14.0   | 33.6 | 97.1 | 0.3  | 54.3            | 422        | 3   |
| Lab #0592   | 05-16-16     | 2.8                    | 51.1  | 12.9   | 33.2 | 97.2 | 0.3  | 53.7            | 418        | 3   |
| KELLY LIMESTONE LLC, KIRKSVILLE, MO                 |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0304   | 03-17-16     | 1.3                    | 19.6  | 9.5    | 69.6 | 90.3 | 0.5  | 80.2            | 579        | 8   |
| Lab #0463   | 04-14-16     | 0.7                    | 19.3  | 9.3    | 70.7 | 90.2 | 1.2  | 81.1            | 585        | 19  |
| Stockpile #3  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0303   | 03-17-16     | 0.2                    | 29.8  | 12.3   | 57.7 | 93.0 | 0.6  | 72.5            | 540        | 9   |
| Lab #0462   | 04-14-16     | 0.3                    | 29.7  | 13.0   | 57.0 | 92.6 | 0.6  | 72.2            | 535        | 9   |
| Lab #0582   | 05-16-16     | 0.4                    | 18.7  | 9.8    | 71.1 | 87.6 | 0.7  | 81.7            | 572        | 11  |
| KEMP STONE, INC, PRYOR, OK                          |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0100   | 02-17-16     | 1.2                    | 46.1  | 12.4   | 40.3 | 77.2 | 0.1  | 59.3            | 366        | 1   |
| Lab #0661   | 06-02-16     | 0.4                    | 29.0  | 17.8   | 52.8 | 80.7 | 0.1  | 70.7            | 457        | 1   |
| KERFORD LIMESTONE CO, WEEPING WATER, NE             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0070   | 02-01-16     | 0.1                    | 0.3   | 0.1    | 99.5 | 93.0 | 0.6  | 99.6            | 741        | 12  |
| Lab #0536   | 05-02-16     | 0.1                    | 0.2   | 0.1    | 99.6 | 93.1 | 0.7  | 99.7            | 743        | 14  |
| KING QUARRY, THAYER, MO                             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0489   | 04-28-16     | 0.1                    | 49.6  | 9.7    | 40.6 | 86.2 | 10.5 | 58.8            | 406        | 124 |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| KNOX COUNTY STONE CO, INC, EDINA, MO                    |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0155   | 02-17-16     | 3.3                    | 40.8  | 12.6   | 43.3 | 86.8 | 2.3  | 61.1            | 424        | 28  |
| Lab #0313   | 03-21-16     | 2.8                    | 37.9  | 12.3   | 47.0 | 81.7 | 1.7  | 63.9            | 417        | 22  |
| Lab #0457   | 04-12-16     | 5.3                    | 42.6  | 10.6   | 41.5 | 93.6 | 1.9  | 58.5            | 438        | 22  |
| Lab #0575   | 05-09-16     | 2.1                    | 43.7  | 12.5   | 41.7 | 91.6 | 2.7  | 60.1            | 441        | 32  |
| L & W QUARRIES, INC - CLARKDALE #8, WEST BURLINGTON, IA |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0142   | 02-22-16     | 7.5                    | 47.1  | 8.3    | 37.1 | 73.7 | 0.4  | 53.9            | 318        | 4   |
| Lab #0252   | 03-14-16     | 6.0                    | 47.4  | 8.5    | 38.1 | 73.9 | 0.5  | 55.1            | 325        | 6   |
| Lab #0393   | 04-11-16     | 7.1                    | 47.3  | 7.8    | 37.8 | 76.6 | 0.3  | 54.3            | 333        | 3   |
| Lab #0562   | 05-11-16     | 7.7                    | 44.0  | 7.9    | 40.4 | 75.1 | 0.4  | 56.1            | 337        | 4   |
| L & W QUARRIES, INC - WALNUT CITY, WEST BURLINGTON, IA  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0141   | 02-22-16     | 6.1                    | 54.7  | 9.2    | 30.0 | 89.4 | 0.4  | 49.2            | 352        | 4   |
| Lab #0253   | 03-14-16     | 5.6                    | 52.7  | 9.0    | 32.7 | 88.6 | 0.3  | 51.3            | 363        | 3   |
| Lab #0394   | 04-11-16     | 7.5                    | 55.2  | 8.0    | 29.3 | 88.5 | 0.3  | 47.9            | 339        | 3   |
| Lab #0563   | 05-11-16     | 11.0*                  | 53.6  | 8.6    | 26.8 | 90.3 | 0.4  | 45.4            | 0          | 0   |
| L & W QUARRIES INC., WEST BURLINGTON, IA                |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0466   | 04-19-16     | 5.8                    | 45.0  | 11.0   | 38.2 | 93.8 | 0.2  | 56.1            | 421        | 2   |
| Lab #0576   | 05-10-16     | 7.5                    | 48.6  | 10.3   | 33.6 | 92.9 | 0.2  | 51.9            | 386        | 2   |
| Lab #0699   | 06-09-16     | 6.1                    | 48.2  | 9.9    | 35.8 | 89.7 | 1.2  | 53.8            | 386        | 13  |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0132   | 02-15-16     | 6.2                    | 49.6  | 7.5    | 36.7 | 87.0 | 4.3  | 53.6            | 373        | 46  |
| Lab #0273   | 03-15-16     | 6.6                    | 47.8  | 9.2    | 36.4 | 86.8 | 4.4  | 53.9            | 374        | 47  |
| Lab #0465   | 04-19-16     | 5.7                    | 49.4  | 8.9    | 36.0 | 87.1 | 4.3  | 53.7            | 374        | 46  |
| Lab #0577   | 05-10-16     | 6.3                    | 49.7  | 7.8    | 36.2 | 87.3 | 4.3  | 53.3            | 372        | 46  |
| LAFARGE WEST INC.-PERRYVILLE, PERRYVILLE, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0166   | 02-23-16     | 0.9                    | 62.5  | 10.1   | 26.5 | 94.4 | 2.1  | 48.2            | 364        | 20  |
| Lab #0443   | 04-21-16     | 0.8                    | 59.3  | 10.7   | 29.2 | 94.3 | 2.2  | 50.4            | 381        | 22  |
| Lab #0656   | 05-31-16     | 1.4                    | 62.8  | 10.0   | 25.8 | 94.6 | 2.0  | 47.5            | 359        | 19  |
| LCL FARMS INC, KEOKUK, IA                               |              |                        |       |        |      |      |      |                 |            |     |
| LEAD BELT MATERIALS CO., INC., PARK HILLS, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0223   | 03-08-16     | 1.4                    | 60.4  | 9.4    | 28.8 | 99.9 | 11.7 | 49.5            | 396        | 116 |
| Lab #0335   | 03-29-16     | 1.4                    | 57.0  | 10.8   | 30.8 | 99.1 | 11.3 | 51.5            | 409        | 116 |
| Lab #0219   | 03-31-25     | 2.9                    | 50.3  | 12.5   | 34.3 | 98.2 | 11.9 | 54.4            | 427        | 129 |
| LILE QUARRY INC., STRAFFORD, MO                         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0274   | 03-16-16     | 0.3                    | 51.5  | 9.3    | 38.9 | 86.6 | 10.8 | 57.4            | 397        | 124 |
| Lab #0597   | 05-19-16     | 0.3                    | 53.1  | 10.8   | 35.8 | 80.2 | 9.9  | 55.6            | 356        | 110 |
| MAGRUDER LIMESTONE CO-ASHLEY, TROY, MO                  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0674   | 05-31-16     | 0.4                    | 47.7  | 9.7    | 42.2 | 82.8 | 2.1  | 59.9            | 397        | 25  |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0110   | 02-10-16     | 0.1                    | 48.0  | 11.5   | 40.4 | 87.7 | 3.4  | 59.3            | 416        | 40  |
| Lab #0236   | 03-08-16     | 0.0                    | 44.6  | 10.9   | 44.5 | 89.6 | 3.7  | 62.2            | 446        | 46  |
| Lab #0408   | 04-08-16     | 0.6                    | 45.9  | 12.2   | 41.3 | 72.9 | 1.9  | 60.1            | 350        | 23  |
| Lab #0506   | 05-02-16     | 0.4                    | 45.8  | 10.4   | 43.4 | 90.4 | 3.6  | 61.1            | 442        | 44  |
| Lab #0675   | 05-31-16     | 0.2                    | 47.2  | 11.2   | 41.4 | 86.5 | 3.1  | 59.9            | 415        | 37  |
| MAGRUDER LIMESTONE CO, INC.-BOWLING, BOWLING GREEN, MO  |              |                        |       |        |      |      |      |                 |            |     |
| MAGRUDER LIMESTONE - FOLEY QUARRY, TROY, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0040   | 02-02-16     | 6.1                    | 47.7  | 6.8    | 39.4 | 96.8 | 4.0  | 55.4            | 429        | 44  |
| Lab #0180   | 02-22-16     | 6.7                    | 49.7  | 7.0    | 36.6 | 96.9 | 3.8  | 53.2            | 413        | 40  |
| Lab #0370   | 03-28-16     | 7.1                    | 43.4  | 7.3    | 42.2 | 96.0 | 3.4  | 57.4            | 441        | 39  |
| Lab #0494   | 04-25-16     | 6.8                    | 42.1  | 6.8    | 44.3 | 95.9 | 3.9  | 58.9            | 452        | 46  |
| Lab #0608   | 05-19-16     | 9.0                    | 48.0  | 6.5    | 36.5 | 96.9 | 3.3  | 52.4            | 406        | 35  |
| Stockpile #3  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0041   | 02-02-16     | 9.2                    | 58.1  | 7.1    | 25.6 | 94.7 | 2.9  | 44.4            | 336        | 26  |
| Lab #0181   | 02-22-16     | 7.5                    | 57.8  | 8.5    | 26.2 | 93.8 | 3.4  | 45.8            | 343        | 31  |
| Lab #0371   | 03-28-16     | 6.7                    | 61.0  | 8.0    | 24.3 | 94.1 | 2.9  | 44.4            | 334        | 26  |
| Lab #0495   | 04-25-16     | 5.9                    | 58.4  | 8.6    | 27.1 | 93.1 | 2.9  | 46.9            | 349        | 27  |
| Lab #0609   | 05-19-16     | 7.1                    | 61.9  | 7.8    | 23.2 | 95.2 | 2.6  | 43.4            | 330        | 23  |
| MAGRUDER LIMESTONE CO-FRANKFORD, TROY, MO               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0039   | 02-02-16     | 0.6                    | 45.3  | 12.6   | 41.5 | 97.6 | 1.7  | 60.4            | 471        | 21  |
| Lab #0179   | 02-22-16     | 1.3                    | 48.3  | 10.3   | 40.1 | 98.2 | 1.8  | 58.4            | 458        | 21  |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| MAGRUDER LIMESTONE CO-FRANKFORD, TROY, MO (Continued) |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0369   | 03-28-16     | 3.8                    | 40.9  | 11.9   | 43.4 | 96.9 | 1.8  | 60.8            | 471        | 22  |
| Lab #0493   | 04-25-16     | 2.9                    | 42.0  | 11.7   | 43.4 | 97.0 | 1.6  | 60.9            | 473        | 19  |
| Lab #0607   | 05-19-16     | 0.4                    | 42.5  | 12.8   | 44.3 | 97.4 | 1.2  | 62.6            | 488        | 15  |
| MAGRUDER LIMESTONE CO. - SHELBYNA, TROY, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0038   | 02-01-16     | 2.2                    | 47.8  | 13.8   | 36.2 | 84.9 | 0.3  | 56.4            | 383        | 3   |
| Lab #0157   | 02-19-16     | 1.7                    | 49.7  | 14.3   | 34.3 | 84.5 | 0.4  | 55.3            | 374        | 4   |
| Lab #0314   | 03-22-16     | 2.8                    | 40.8  | 15.7   | 40.7 | 75.0 | 0.2  | 60.3            | 362        | 2   |
| Lab #0464   | 04-15-16     | 0.9                    | 47.0  | 14.6   | 37.5 | 85.1 | 0.3  | 58.0            | 395        | 3   |
| Lab #0578   | 05-11-16     | 0.9                    | 51.5  | 13.9   | 33.7 | 91.1 | 0.2  | 54.9            | 400        | 2   |
| Lab #0678   | 06-03-16     | 0.8                    | 50.7  | 13.2   | 35.3 | 88.1 | 0.3  | 55.9            | 394        | 3   |
| MAGRUDER LIMESTONE - SILEX QUARRY, TROY, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0077   | 02-09-16     | 8.0                    | 47.1  | 7.6    | 37.3 | 94.9 | 2.9  | 53.6            | 407        | 31  |
| Lab #0234   | 03-07-16     | 1.9                    | 51.2  | 9.3    | 37.6 | 94.8 | 2.8  | 56.0            | 425        | 31  |
| Lab #0406   | 04-07-16     | 1.1                    | 48.5  | 10.4   | 40.0 | 94.5 | 2.8  | 58.4            | 441        | 33  |
| Lab #0497   | 04-29-16     | 1.1                    | 47.1  | 10.2   | 41.6 | 89.9 | 2.7  | 59.5            | 428        | 32  |
| Lab #0672   | 06-01-16     | 0.7                    | 43.4  | 11.1   | 44.8 | 86.9 | 2.8  | 62.3            | 433        | 35  |
| MAGRUDER LIMESTONE CO Q TROY, TROY, MO                |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0078   | 02-09-16     | 3.5                    | 42.1  | 11.8   | 42.6 | 95.4 | 2.1  | 60.2            | 459        | 25  |
| Lab #0235   | 03-07-16     | 6.4                    | 48.4  | 8.3    | 36.9 | 87.5 | 2.7  | 54.0            | 378        | 29  |
| Lab #0407   | 04-07-16     | 4.8                    | 45.9  | 10.0   | 39.3 | 97.1 | 2.6  | 56.8            | 441        | 30  |
| Lab #0498   | 04-29-16     | 5.1                    | 46.0  | 9.8    | 39.1 | 97.3 | 2.6  | 56.5            | 440        | 29  |
| Lab #0673   | 06-01-16     | 4.3                    | 46.1  | 10.1   | 39.5 | 96.9 | 2.2  | 57.1            | 443        | 25  |
| MANSFIELD LIME & STONE, MANSFIELD, MO                 |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0225   | 03-07-16     | 0.0                    | 52.3  | 9.7    | 38.0 | 82.3 | 9.8  | 56.9            | 375        | 112 |
| Lab #0529   | 05-03-16     | 0.1                    | 49.9  | 10.3   | 39.7 | 82.7 | 10.4 | 58.4            | 386        | 121 |
| Lab #0622   | 05-23-16     | 0.2                    | 52.5  | 9.9    | 37.4 | 83.1 | 10.3 | 56.5            | 375        | 116 |
| MARTIN MARIETTA MATERIALS OF K.C., PARKVILLE, MO      |              |                        |       |        |      |      |      |                 |            |     |
| MARTIN MARIETTA MATERIALS OF K.C., KANSAS CITY, MO    |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0153   | 02-23-16     | 0.3                    | 27.6  | 16.7   | 55.4 | 91.2 | 0.7  | 72.3            | 528        | 10  |
| Lab #0325   | 03-18-16     | 0.0                    | 27.2  | 16.1   | 56.7 | 91.6 | 0.6  | 73.2            | 536        | 9   |
| Lab #0505   | 04-22-16     | 0.0                    | 27.8  | 15.5   | 56.7 | 90.3 | 0.9  | 73.0            | 527        | 13  |
| Lab #0679   | 05-31-16     | 0.8                    | 24.8  | 13.5   | 60.9 | 89.9 | 0.8  | 75.2            | 541        | 12  |
| MARTIN MARIETTA MATERIALS OF K.C., RANDOLPH, MO       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0019   | 01-15-16     | 2.5                    | 59.9  | 8.6    | 29.0 | 91.6 | 0.6  | 49.1            | 360        | 6   |
| Lab #0122   | 02-18-16     | 3.2                    | 58.1  | 8.7    | 30.0 | 91.1 | 0.6  | 49.7            | 363        | 6   |
| Lab #0323   | 03-23-16     | 4.8                    | 45.0  | 8.0    | 42.2 | 91.6 | 0.5  | 58.3            | 427        | 6   |
| Lab #0476   | 04-21-16     | 5.3                    | 58.7  | 8.2    | 27.8 | 92.2 | 0.4  | 47.4            | 350        | 4   |
| Lab #0617   | 05-20-16     | 7.6                    | 53.6  | 9.4    | 29.4 | 91.9 | 0.4  | 48.4            | 356        | 4   |
| MATERIAL DEPOT AT BUTTERFIELD, CASSVILLE, MO          |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0351   | 04-04-16     | 3.2                    | 50.3  | 13.2   | 33.3 | 97.0 | 0.3  | 53.8            | 417        | 3   |
| Lab #0361   | 04-06-16     | 2.6                    | 50.7  | 13.4   | 33.3 | 96.3 | 0.2  | 54.0            | 416        | 2   |
| Lab #0392   | 04-13-16     | 2.6                    | 50.1  | 13.4   | 33.9 | 97.0 | 0.3  | 54.5            | 423        | 3   |
| MERTENS CONST CO-AUXVASSE, KINGDOM CITY, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #6  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0076   | 02-08-16     | 1.8                    | 51.2  | 8.6    | 38.4 | 87.5 | 4.8  | 56.4            | 395        | 54  |
| Lab #0231   | 03-02-16     | 5.8                    | 56.3  | 9.2    | 28.7 | 94.9 | 2.3  | 48.3            | 367        | 22  |
| Lab #0373   | 03-30-16     | 8.6                    | 49.8  | 8.1    | 33.5 | 89.2 | 3.4  | 50.8            | 363        | 35  |
| Lab #0579   | 05-13-16     | 9.3                    | 59.8  | 9.4    | 21.5 | 94.3 | 1.3  | 42.1            | 318        | 11  |
| Lab #0671   | 05-27-16     | 5.2                    | 53.4  | 10.2   | 31.2 | 92.7 | 3.3  | 50.7            | 376        | 33  |
| MERTENS CONST. CO-TIPTON QUARRY, KINGDOM CITY, MO     |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0006   | 01-06-16     | 0.5                    | 36.5  | 8.0    | 55.0 | 74.4 | 6.9  | 68.9            | 410        | 95  |
| Lab #0102   | 02-15-16     | 0.6                    | 38.3  | 7.8    | 53.3 | 73.7 | 6.9  | 67.6            | 398        | 93  |
| Lab #0402   | 04-12-16     | 5.3                    | 47.9  | 7.7    | 39.1 | 75.2 | 6.5  | 55.7            | 335        | 72  |
| Lab #0552   | 05-09-16     | 5.0                    | 45.4  | 6.0    | 43.6 | 75.0 | 6.5  | 58.6            | 351        | 76  |
| Lab #0718   | 06-08-16     | 4.7                    | 46.4  | 7.6    | 41.3 | 73.2 | 6.5  | 57.5            | 336        | 75  |
| MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0091   | 02-16-16     | 2.2                    | 45.9  | 10.1   | 41.8 | 82.1 | 4.7  | 59.3            | 390        | 56  |
| Lab #0362   | 04-06-16     | 4.4                    | 49.1  | 11.7   | 34.8 | 92.6 | 4.3  | 54.1            | 401        | 47  |
| Lab #0603   | 05-20-16     | 5.0                    | 47.0  | 11.3   | 36.7 | 86.6 | 4.0  | 55.2            | 383        | 44  |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|-----|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |     |                 | ENM        | EMg |
| MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO (Continued) |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0089   | 02-16-16     | 1.6                    | 39.0  | 13.1   | 46.3 | 86.8 | 3.6 | 63.9            | 444        | 46  |
| MFA INC, COLUMBIA, MO                                   |              |                        |       |        |      |      |     |                 |            |     |
| MID-MISSOURI LIMESTONE, INC-BIG SPR, KINGDOM CITY, MO   |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0167   | 02-24-16     | 4.6                    | 54.6  | 10.3   | 30.5 | 94.3 | 0.5 | 50.3            | 380        | 5   |
| Lab #0467   | 04-22-16     | 7.9                    | 56.1  | 9.1    | 26.9 | 92.0 | 3.0 | 46.4            | 341        | 28  |
| MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO        |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0021   | 02-02-16     | 4.2                    | 50.0  | 11.8   | 34.0 | 91.1 | 0.5 | 54.0            | 390        | 5   |
| Lab #0337   | 03-30-16     | 5.0                    | 50.9  | 11.8   | 32.3 | 92.5 | 0.3 | 52.1            | 386        | 3   |
| Lab #0587   | 05-16-16     | 5.4                    | 49.5  | 13.2   | 31.9 | 93.1 | 0.2 | 52.2            | 389        | 2   |
| MID-MISSOURI LIMESTONE, INC.-HOUSTO, HOUSTONIA, MO      |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0016   | 01-14-16     | 7.7                    | 52.8  | 6.6    | 32.9 | 84.2 | 5.2 | 50.1            | 337        | 52  |
| Lab #0143   | 02-19-16     | 6.4                    | 52.5  | 7.6    | 33.5 | 83.4 | 5.6 | 51.2            | 342        | 57  |
| Lab #0693   | 06-07-16     | 7.4                    | 48.9  | 8.1    | 35.6 | 84.7 | 4.5 | 52.7            | 357        | 47  |
| Stockpile #2  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0017   | 01-14-16     | 5.4                    | 48.7  | 11.2   | 34.7 | 90.1 | 0.1 | 53.6            | 386        | 1   |
| Lab #0144   | 02-19-16     | 5.1                    | 47.9  | 12.1   | 34.9 | 86.7 | 0.2 | 54.1            | 375        | 2   |
| Lab #0309   | 03-21-16     | 6.5                    | 49.5  | 11.2   | 32.8 | 91.7 | 0.5 | 51.9            | 381        | 5   |
| Lab #0456   | 04-20-16     | 6.5                    | 50.3  | 11.7   | 31.5 | 94.0 | 0.2 | 51.1            | 384        | 2   |
| Lab #0599   | 05-18-16     | 4.3                    | 51.7  | 12.5   | 31.5 | 92.1 | 0.2 | 51.9            | 383        | 2   |
| Lab #0692   | 06-07-16     | 5.2                    | 50.6  | 12.1   | 32.1 | 94.9 | 0.2 | 52.0            | 395        | 2   |
| MID-MISSOURI LIMESTONE-RIGGS, KINGDOM CITY, MO          |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0035   | 02-01-16     | 4.4                    | 51.3  | 6.8    | 37.5 | 88.8 | 6.2 | 54.4            | 386        | 67  |
| Lab #0187   | 03-02-16     | 4.7                    | 52.4  | 7.1    | 35.8 | 88.5 | 6.3 | 53.2            | 376        | 67  |
| Lab #0318   | 03-25-16     | 4.9                    | 52.7  | 7.3    | 35.1 | 89.2 | 5.8 | 52.7            | 376        | 61  |
| Lab #0510   | 05-04-16     | 5.1                    | 51.9  | 7.7    | 35.3 | 88.7 | 6.3 | 52.9            | 375        | 67  |
| Lab #0584   | 05-18-16     | 4.2                    | 50.1  | 6.9    | 38.8 | 89.5 | 6.5 | 55.5            | 397        | 72  |
| Stockpile #3  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0034   | 02-01-16     | 1.7                    | 42.2  | 10.4   | 45.7 | 90.4 | 3.0 | 62.5            | 452        | 37  |
| Lab #0186   | 03-02-16     | 3.3                    | 45.6  | 10.5   | 40.6 | 92.1 | 3.1 | 58.3            | 430        | 36  |
| Lab #0317   | 03-25-16     | 2.1                    | 43.4  | 11.1   | 43.4 | 91.1 | 2.7 | 60.9            | 444        | 33  |
| Lab #0509   | 05-04-16     | 1.7                    | 45.0  | 10.7   | 42.6 | 91.2 | 3.0 | 60.3            | 440        | 36  |
| Lab #0583   | 05-18-16     | 1.8                    | 46.8  | 10.4   | 41.0 | 90.0 | 3.0 | 58.9            | 424        | 35  |
| MIDWEST MINERALS, INC - FORT SCOTT, PITTSBURG, KS       |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0052   | 02-04-16     | 1.0                    | 48.4  | 12.0   | 38.6 | 86.0 | 0.3 | 57.9            | 398        | 3   |
| Lab #0245   | 03-09-16     | 1.8                    | 48.5  | 13.5   | 36.2 | 87.5 | 0.3 | 56.4            | 395        | 3   |
| Lab #0420   | 04-14-16     | 0.2                    | 49.8  | 12.0   | 38.0 | 87.7 | 0.3 | 57.7            | 404        | 3   |
| Lab #0637   | 05-23-16     | 1.9                    | 52.3  | 11.3   | 34.5 | 87.2 | 0.4 | 54.4            | 379        | 4   |
| MIDWEST MINERALS INC - JASPER, PITTSBURG, KS            |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0097   | 02-16-16     | 4.2                    | 40.8  | 11.9   | 43.1 | 97.4 | 0.1 | 60.4            | 471        | 1   |
| Lab #0357   | 04-06-16     | 3.6                    | 38.9  | 13.5   | 44.0 | 97.8 | 0.1 | 61.8            | 484        | 1   |
| Lab #0594   | 05-18-16     | 2.4                    | 31.5  | 15.4   | 50.7 | 97.3 | 0.1 | 67.8            | 528        | 1   |
| MISSISSIPPI LIME COMPANY, STE GENEVIEVE, MO             |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0151   | 02-23-16     | 0.1                    | 0.3   | 0.5    | 99.1 | 98.8 | 0.2 | 99.5            | 786        | 4   |
| Lab #0444   | 04-21-16     | 0.0                    | 0.4   | 0.6    | 99.0 | 98.9 | 0.2 | 99.5            | 787        | 4   |
| Lab #0654   | 05-31-16     | 0.0                    | 0.1   | 0.5    | 99.4 | 98.9 | 0.2 | 99.8            | 789        | 4   |
| Stockpile #3  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0152   | 02-23-16     | 0.0                    | 39.2  | 27.0   | 33.8 | 98.8 | 0.2 | 59.8            | 473        | 2   |
| Lab #0445   | 04-21-16     | 0.0                    | 40.5  | 31.0   | 28.5 | 98.9 | 0.2 | 57.2            | 453        | 2   |
| Lab #0655   | 05-31-16     | 0.0                    | 41.9  | 28.6   | 29.5 | 98.5 | 0.2 | 57.1            | 450        | 2   |
| MK MINERALS INC., WATHENA, KS                           |              |                        |       |        |      |      |     |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |     |                 |            |     |
| Lab #0082   | 02-11-16     | 0.0                    | 0.4   | 1.5    | 98.1 | 88.3 | 0.7 | 99.1            | 700        | 14  |
| Lab #0116   | 02-19-16     | 0.0                    | 0.6   | 2.3    | 97.1 | 88.9 | 0.6 | 98.6            | 701        | 12  |
| Lab #0270   | 03-14-16     | 0.0                    | 0.2   | 0.2    | 99.6 | 87.5 | 0.7 | 99.8            | 698        | 14  |
| Lab #0486   | 04-27-16     | 0.0                    | 1.2   | 3.5    | 95.3 | 88.8 | 0.6 | 97.7            | 694        | 12  |
| Lab #0648   | 05-26-16     | 0.0                    | 0.3   | 0.7    | 99.0 | 87.5 | 0.7 | 99.5            | 696        | 14  |
| MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA      |              |                        |       |        |      |      |     |                 |            |     |
| MORRIS ROCK, DEERFIELD, MO                              |              |                        |       |        |      |      |     |                 |            |     |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                                 | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| MOUNTAIN GROVE QUARRY, MANSFIELD, MO        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0477                                   | 04-25-16     | 1.2                    | 48.6  | 10.5   | 39.7 | 87.6 | 10.6 | 58.2            | 408        | 123 |
| Lab #0528                                   | 05-03-16     | 0.7                    | 44.6  | 8.5    | 46.2 | 86.3 | 10.9 | 62.5            | 431        | 136 |
| NEMO SAND & GRAVEL, QUARRY, PITTSBURG, MO   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0051                                   | 02-03-16     | 0.6                    | 39.8  | 9.2    | 50.4 | 85.9 | 10.6 | 65.9            | 453        | 140 |
| Lab #0265                                   | 03-15-16     | 1.4                    | 41.3  | 9.4    | 47.9 | 86.7 | 10.5 | 63.9            | 443        | 134 |
| Lab #0482                                   | 04-27-16     | 0.7                    | 40.0  | 10.1   | 49.2 | 81.5 | 9.7  | 65.3            | 425        | 127 |
| Lab #0641                                   | 05-25-16     | 0.3                    | 37.0  | 9.3    | 53.4 | 85.5 | 10.4 | 68.2            | 467        | 142 |
| NORRIS QUARRIES, LLC-AMAZONIA, AMAZONIA, MO |              |                        |       |        |      |      |      |                 |            |     |
| NORRIS QUARRIES, LLC-BARNARD, BARNARD, MO   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0131                                   | 02-12-16     | 3.2                    | 49.3  | 9.8    | 37.7 | 80.7 | 1.5  | 55.9            | 361        | 17  |
| Lab #0326                                   | 03-22-16     | 2.7                    | 46.9  | 10.5   | 39.9 | 79.3 | 1.4  | 57.9            | 367        | 16  |
| Lab #0488                                   | 04-29-16     | 2.4                    | 47.4  | 10.2   | 40.0 | 79.8 | 1.5  | 58.0            | 370        | 17  |
| Lab #0647                                   | 05-25-16     | 2.3                    | 51.0  | 9.4    | 37.3 | 82.5 | 1.6  | 55.7            | 368        | 18  |
| Lab #0730                                   | 06-17-16     | 8.6                    | 41.7  | 10.7   | 39.0 | 78.3 | 1.8  | 56.0            | 350        | 20  |
| NORRIS QUARRIES, LLC-BETHANY, BETHANY, MO   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0022                                   | 02-01-16     | 3.4                    | 44.1  | 9.1    | 43.4 | 74.1 | 1.5  | 59.9            | 355        | 18  |
| Lab #0278                                   | 03-16-16     | 3.6                    | 45.0  | 10.3   | 41.1 | 76.5 | 1.4  | 58.5            | 358        | 16  |
| Lab #0411                                   | 04-14-16     | 6.1                    | 43.9  | 9.6    | 40.4 | 76.9 | 1.5  | 57.1            | 351        | 17  |
| Lab #0684                                   | 05-31-16     | 3.7                    | 53.6  | 9.9    | 32.8 | 81.7 | 1.4  | 52.1            | 341        | 15  |
| NORRIS QUARRIES, LLC - BREIT, SAVANNAH, MO  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0114                                   | 02-12-16     | 5.8                    | 52.8  | 8.6    | 32.8 | 83.4 | 1.4  | 51.2            | 341        | 14  |
| Lab #0380                                   | 04-05-16     | 5.0                    | 53.1  | 9.0    | 32.9 | 79.7 | 1.6  | 51.6            | 329        | 17  |
| Lab #0539                                   | 05-04-16     | 7.6                    | 46.6  | 7.6    | 38.2 | 79.2 | 1.6  | 54.4            | 345        | 17  |
| Lab #0727                                   | 06-13-16     | 7.7                    | 49.2  | 9.6    | 33.5 | 78.9 | 1.0  | 52.0            | 325        | 10  |
| NORRIS QUARRIES, LLC-BLUE MOUND, DAWN, MO   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0074                                   | 02-11-16     | 6.4                    | 45.9  | 9.8    | 37.9 | 65.0 | 0.9  | 55.3            | 287        | 10  |
| Lab #0241                                   | 03-10-16     | 3.6                    | 51.4  | 11.8   | 33.2 | 76.8 | 0.9  | 53.1            | 326        | 10  |
| Lab #0356                                   | 04-06-16     | 2.4                    | 54.1  | 10.3   | 33.2 | 88.7 | 1.0  | 52.9            | 375        | 11  |
| Lab #0502                                   | 05-03-16     | 2.1                    | 54.4  | 11.0   | 32.5 | 88.8 | 1.0  | 52.7            | 374        | 11  |
| Lab #0695                                   | 06-09-16     | 2.5                    | 53.6  | 10.5   | 33.4 | 88.6 | 1.0  | 53.1            | 376        | 11  |
| NORRIS QUARRIES, LLC-CAMERON, SAVANNAH, MO  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0731                                   | 06-20-16     | 1.8                    | 46.3  | 9.8    | 42.1 | 70.7 | 2.2  | 60.0            | 337        | 26  |
| NORRIS QUARRIES, LLC-GALLATIN, GALLATIN, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0073                                   | 02-11-16     | 6.7                    | 42.0  | 7.7    | 43.6 | 67.2 | 1.1  | 58.7            | 316        | 13  |
| Lab #0176                                   | 03-01-16     | 8.3                    | 44.9  | 7.2    | 39.6 | 69.0 | 1.1  | 55.1            | 304        | 12  |
| Lab #0339                                   | 03-29-16     | 3.3                    | 55.1  | 9.3    | 32.3 | 71.9 | 1.1  | 51.7            | 297        | 11  |
| Lab #0430                                   | 04-20-16     | 7.3                    | 43.1  | 7.7    | 41.9 | 67.5 | 1.2  | 57.3            | 309        | 14  |
| Lab #0600                                   | 05-20-16     | 4.8                    | 38.4  | 11.1   | 45.7 | 74.5 | 1.0  | 62.0            | 369        | 12  |
| NORRIS QUARRIES, LLC- GOODEN, RAVENWOOD, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0071                                   | 02-03-16     | 2.7                    | 53.6  | 8.3    | 35.4 | 81.1 | 1.9  | 53.8            | 349        | 20  |
| Lab #0259                                   | 03-08-16     | 1.4                    | 45.5  | 10.0   | 43.1 | 81.5 | 1.9  | 60.5            | 394        | 23  |
| Lab #0382                                   | 04-07-16     | 1.0                    | 50.5  | 11.2   | 37.3 | 79.7 | 2.1  | 56.6            | 361        | 24  |
| Lab #0646                                   | 05-25-16     | 1.3                    | 46.5  | 9.7    | 42.5 | 80.7 | 1.9  | 59.9            | 387        | 23  |
| Lab #0728                                   | 06-14-16     | 1.5                    | 45.8  | 11.0   | 41.7 | 80.5 | 2.1  | 60.0            | 385        | 25  |
| NORRIS QUARRIES, LLC - GOWER, SAVANNAH, MO  |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0729                                   | 06-15-16     | 2.3                    | 47.3  | 9.4    | 41.0 | 80.1 | 0.9  | 59.0            | 375        | 11  |
| NORRIS QUARRIES, LLC - EAST, HUNTSVILLE, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0025                                   | 02-03-16     | 3.8                    | 53.5  | 11.0   | 31.7 | 88.8 | 1.9  | 51.7            | 367        | 20  |
| Lab #0276                                   | 03-15-16     | 4.8                    | 50.4  | 11.9   | 32.9 | 92.7 | 1.3  | 52.6            | 390        | 14  |
| Lab #0346                                   | 04-05-16     | 3.1                    | 52.3  | 11.5   | 33.1 | 91.5 | 1.4  | 53.1            | 389        | 15  |
| Lab #0490                                   | 04-27-16     | 3.5                    | 50.2  | 12.9   | 33.4 | 93.7 | 1.2  | 53.7            | 402        | 13  |
| Lab #0574                                   | 05-18-16     | 5.1                    | 48.2  | 12.1   | 34.6 | 92.6 | 0.9  | 53.9            | 399        | 10  |
| NORRIS QUARRIES, LLC-JEFFRIES, SAVANNAH, MO |              |                        |       |        |      |      |      |                 |            |     |
| NORRIS QUARRIES, LLC-MAITLAND, MAITLAND, MO |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1                                |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0130                                   | 02-12-16     | 2.9                    | 49.9  | 10.6   | 36.6 | 87.5 | 0.7  | 55.4            | 388        | 8   |
| Lab #0327                                   | 03-23-16     | 3.3                    | 47.6  | 9.6    | 39.5 | 85.4 | 1.0  | 57.2            | 391        | 11  |
| Lab #0487                                   | 04-29-16     | 6.6                    | 52.0  | 8.4    | 33.0 | 86.7 | 1.1  | 51.0            | 354        | 11  |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor   | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|---|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|   |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| NORRIS QUARRIES, LLC-MAITLAND, MAITLAND, MO (Continued) |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0680   | 06-01-16     | 2.8                    | 50.3  | 10.9   | 36.0 | 85.1 | 0.9  | 55.1            | 375        | 10  |
| NORRIS QUARRIES, LLC-PRINCETON, PRINCETON, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #5  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0031   | 02-04-16     | 1.8                    | 45.9  | 10.6   | 41.7 | 84.3 | 1.1  | 59.5            | 402        | 13  |
| Lab #0148   | 02-23-16     | 4.7                    | 43.6  | 10.7   | 41.0 | 84.0 | 1.3  | 58.3            | 392        | 15  |
| Lab #0255   | 03-14-16     | 2.8                    | 54.6  | 9.8    | 32.8 | 80.5 | 1.6  | 52.3            | 337        | 17  |
| Lab #0396   | 04-12-16     | 4.5                    | 57.5  | 9.3    | 28.7 | 80.1 | 1.6  | 48.7            | 312        | 16  |
| Lab #0501   | 05-03-16     | 5.7                    | 56.3  | 8.0    | 30.0 | 83.0 | 1.5  | 48.9            | 325        | 15  |
| Lab #0630   | 05-24-16     | 4.2                    | 52.1  | 9.1    | 34.6 | 81.5 | 1.6  | 53.1            | 346        | 17  |
| NORRIS QUARRIES, LLC- TRENTON, TRENTON, MO              |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0147   | 02-23-16     | 7.9                    | 53.8  | 9.1    | 29.2 | 89.8 | 0.6  | 48.1            | 346        | 6   |
| Lab #0200   | 03-03-16     | 6.2                    | 54.4  | 9.8    | 29.6 | 88.8 | 0.6  | 49.1            | 349        | 6   |
| Lab #0355   | 04-06-16     | 6.0                    | 47.8  | 9.6    | 36.6 | 84.1 | 1.3  | 54.3            | 365        | 14  |
| Lab #0535   | 05-06-16     | 8.4                    | 46.6  | 8.9    | 36.1 | 84.6 | 1.2  | 53.1            | 359        | 13  |
| Lab #0685   | 05-31-16     | 9.1                    | 47.0  | 9.1    | 34.8 | 84.0 | 1.1  | 52.0            | 350        | 11  |
| OAKLEY FERTILIZER, INC, NORTH LITTLE ROCK, AR           |              |                        |       |        |      |      |      |                 |            |     |
| OSAGE QUARRIES, INC, KINGDOM CITY, MO                   |              |                        |       |        |      |      |      |                 |            |     |
| PELLETIZING COMPANY INC, GORDONSVILLE, TN               |              |                        |       |        |      |      |      |                 |            |     |
| PHENIX ROCK, ASH GROVE, MO                              |              |                        |       |        |      |      |      |                 |            |     |
| RAY COUNTY STONE-EE QUARRY, RICHMOND, MO                |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0018   | 01-15-16     | 1.7                    | 45.5  | 9.5    | 43.3 | 69.8 | 0.8  | 60.4            | 337        | 10  |
| SCAGGS ROCK-N-LIME, INC., PATTERSON, MO                 |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #3  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0059   | 02-04-16     | 2.6                    | 11.5  | 19.3   | 66.6 | 94.9 | 11.9 | 81.1            | 615        | 193 |
| Lab #0237   | 03-08-16     | 1.7                    | 10.9  | 21.6   | 65.8 | 94.2 | 11.6 | 81.5            | 614        | 189 |
| Lab #0447   | 04-19-16     | 6.6                    | 15.1  | 21.9   | 56.4 | 98.7 | 12.0 | 73.3            | 579        | 176 |
| SCHILDBERG CONST. CO.-DECATUR, GREENFIELD, IA           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0079   | 02-04-16     | 1.8                    | 43.8  | 10.0   | 44.4 | 68.4 | 1.6  | 61.4            | 336        | 20  |
| Lab #0258   | 03-03-16     | 2.1                    | 44.0  | 10.4   | 43.5 | 70.0 | 1.6  | 60.7            | 340        | 19  |
| Lab #0341   | 03-30-16     | 2.8                    | 47.3  | 9.6    | 40.3 | 76.2 | 1.4  | 57.9            | 353        | 16  |
| Lab #0537   | 05-03-16     | 3.0                    | 43.1  | 8.9    | 45.0 | 71.5 | 1.3  | 61.1            | 350        | 16  |
| Lab #0683   | 06-03-16     | 3.0                    | 44.0  | 11.0   | 42.0 | 69.4 | 1.7  | 59.6            | 331        | 20  |
| SCHILDBERG CONST. CO.-GRAHAM MO Q, GREENFIELD, IA       |              |                        |       |        |      |      |      |                 |            |     |
| SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0081   | 02-09-16     | 0.5                    | 48.3  | 12.9   | 38.3 | 87.0 | 0.9  | 58.1            | 404        | 10  |
| Lab #0256   | 03-03-16     | 0.4                    | 47.8  | 13.2   | 38.6 | 86.1 | 1.0  | 58.5            | 403        | 12  |
| Lab #0381   | 04-07-16     | 0.7                    | 51.8  | 12.7   | 34.8 | 86.1 | 1.1  | 55.4            | 381        | 12  |
| Lab #0548   | 05-10-16     | 0.7                    | 51.2  | 12.4   | 35.7 | 87.3 | 1.0  | 55.9            | 391        | 11  |
| Lab #0726   | 06-06-16     | 0.6                    | 53.2  | 11.9   | 34.3 | 86.1 | 1.1  | 55.0            | 377        | 12  |
| SCHILDBERG CONST. CO.-WATTERSON, GREENFIELD, IA         |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0072   | 02-04-16     | 3.7                    | 41.1  | 8.8    | 46.4 | 70.1 | 1.6  | 62.0            | 347        | 20  |
| Lab #0257   | 03-03-16     | 3.1                    | 39.6  | 8.8    | 48.5 | 69.9 | 1.7  | 63.7            | 356        | 22  |
| Lab #0379   | 04-04-16     | 3.5                    | 39.3  | 9.4    | 47.8 | 69.9 | 1.6  | 63.3            | 354        | 20  |
| Lab #0538   | 05-03-16     | 3.4                    | 44.9  | 10.9   | 40.8 | 74.9 | 1.5  | 58.6            | 351        | 18  |
| Lab #0682   | 06-03-16     | 3.2                    | 37.5  | 8.7    | 50.6 | 67.2 | 1.6  | 65.2            | 350        | 21  |
| SEMINOLE AG-LIME, SCOTT CITY, MO                        |              |                        |       |        |      |      |      |                 |            |     |
| SHAWNEE STONE - CYPRESS PLANT, CYPRESS, IL              |              |                        |       |        |      |      |      |                 |            |     |
| SHAWNEE STONE - JONESBORO PLANT, ANNA, IL               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0210   | 03-01-16     | 0.8                    | 23.6  | 13.0   | 62.6 | 95.6 | 0.3  | 76.3            | 584        | 5   |
| Lab #0449   | 04-20-16     | 1.3                    | 25.3  | 13.6   | 59.8 | 97.4 | 0.3  | 74.3            | 579        | 4   |
| Lab #0669   | 05-31-16     | 0.6                    | 22.8  | 14.5   | 62.1 | 98.9 | 0.5  | 76.5            | 605        | 8   |
| SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO              |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0007   | 01-06-16     | 6.2                    | 39.3  | 8.2    | 46.3 | 76.4 | 9.2  | 61.0            | 373        | 112 |
| Lab #0137   | 02-19-16     | 6.4                    | 39.4  | 8.6    | 45.6 | 76.6 | 9.5  | 60.6            | 371        | 115 |
| Lab #0288   | 03-17-16     | 4.3                    | 35.9  | 10.5   | 49.3 | 77.5 | 9.4  | 64.6            | 400        | 121 |
| Lab #0414   | 04-13-16     | 2.1                    | 47.9  | 8.3    | 41.7 | 78.3 | 9.6  | 58.7            | 367        | 113 |
| Lab #0569   | 05-12-16     | 2.5                    | 44.2  | 9.2    | 44.1 | 72.9 | 9.0  | 60.7            | 354        | 109 |
| Lab #0720   | 06-09-16     | 3.1                    | 45.2  | 9.7    | 42.0 | 72.6 | 9.0  | 59.1            | 343        | 106 |
| Stockpile #4  |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0008   | 01-06-16     | 1.8                    | 53.0  | 7.9    | 37.3 | 86.8 | 10.9 | 55.3            | 384        | 121 |
| Lab #0139   | 02-19-16     | 2.2                    | 48.9  | 8.6    | 40.3 | 84.6 | 10.6 | 57.7            | 390        | 122 |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor  | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE  | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|-------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |       |      |                 | ENM        | EMg |
| SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO (Continued) |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #4   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0571  | 05-12-16     | 2.9                    | 53.3  | 9.2    | 34.6 | 84.3  | 10.6 | 53.4            | 360        | 113 |
| Lab #0722  | 06-09-16     | 2.5                    | 50.8  | 9.5    | 37.2 | 81.1  | 10.1 | 55.6            | 361        | 112 |
| Stockpile #5   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0138  | 02-19-16     | 2.9                    | 43.8  | 7.1    | 46.2 | 78.4  | 9.7  | 61.4            | 385        | 119 |
| Lab #0174  | 02-25-16     | 2.7                    | 46.1  | 7.6    | 43.6 | 76.5  | 9.3  | 59.7            | 365        | 111 |
| Lab #0289  | 03-17-16     | 3.1                    | 45.6  | 8.3    | 43.0 | 76.8  | 9.3  | 59.4            | 365        | 110 |
| Lab #0415  | 04-13-16     | 2.4                    | 42.9  | 7.4    | 47.3 | 76.7  | 9.5  | 62.5            | 383        | 119 |
| Lab #0570  | 05-12-16     | 3.0                    | 44.5  | 8.0    | 44.5 | 76.3  | 9.7  | 60.4            | 369        | 117 |
| Lab #0721  | 06-09-16     | 2.4                    | 40.7  | 7.4    | 49.5 | 76.3  | 9.5  | 64.1            | 391        | 122 |
| SKYLINE MATERIALS, LLC - GILLIAM, GILLIAM, MO          |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0012  | 01-14-16     | 8.8                    | 48.7  | 6.5    | 36.0 | 89.4  | 6.1  | 52.1            | 372        | 64  |
| Lab #0120  | 02-17-16     | 7.0                    | 49.3  | 8.2    | 35.5 | 89.8  | 6.5  | 52.7            | 379        | 69  |
| Lab #0250  | 03-11-16     | 6.1                    | 48.7  | 8.6    | 36.6 | 90.0  | 6.5  | 53.9            | 388        | 70  |
| Lab #0399  | 04-11-16     | 7.3                    | 47.6  | 8.2    | 36.9 | 89.9  | 6.9  | 53.7            | 386        | 74  |
| Lab #0554  | 05-11-16     | 3.8                    | 50.8  | 8.0    | 37.4 | 92.1  | 7.3  | 54.9            | 405        | 80  |
| Lab #0687  | 06-06-16     | 6.4                    | 50.7  | 7.6    | 35.3 | 90.0  | 6.1  | 52.5            | 378        | 64  |
| SKYLINE MATERIALS - NEWARK, NEWARK, MO                 |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #3   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0302  | 03-17-16     | 0.6                    | 41.7  | 9.4    | 48.3 | 87.4  | 2.8  | 64.4            | 450        | 36  |
| Lab #0461  | 04-14-16     | 1.1                    | 46.8  | 11.2   | 40.9 | 93.1  | 0.6  | 59.3            | 442        | 7   |
| Lab #0581  | 05-16-16     | 0.7                    | 45.5  | 11.7   | 42.1 | 92.8  | 0.8  | 60.5            | 449        | 10  |
| SKYLINE MATERIALS-GLASGOW, GLASGOW, MO                 |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0013  | 01-14-16     | 0.5                    | 47.3  | 9.1    | 43.1 | 89.7  | 6.1  | 60.4            | 433        | 74  |
| Lab #0119  | 02-17-16     | 1.0                    | 48.8  | 9.9    | 40.3 | 87.9  | 5.7  | 58.4            | 411        | 67  |
| Lab #0251  | 03-11-16     | 0.6                    | 45.5  | 10.8   | 43.1 | 87.0  | 5.5  | 61.0            | 424        | 67  |
| Lab #0386  | 04-11-16     | 0.6                    | 47.3  | 9.7    | 42.4 | 86.1  | 6.3  | 60.0            | 414        | 76  |
| Lab #0555  | 05-11-16     | 0.6                    | 47.7  | 10.5   | 41.2 | 85.5  | 5.1  | 59.4            | 406        | 61  |
| Lab #0688  | 06-06-16     | 1.2                    | 48.2  | 10.1   | 40.5 | 87.0  | 6.2  | 58.6            | 408        | 73  |
| SOUTH CENTRAL COOP, CAINSVILLE, MO                     |              |                        |       |        |      |       |      |                 |            |     |
| SMASAL AGGREGATE, LINCOLN, MO                          |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0127  | 02-18-16     | 2.7                    | 44.0  | 12.6   | 40.7 | 91.5  | 0.4  | 59.3            | 434        | 5   |
| Lab #0518  | 05-02-16     | 0.8                    | 44.7  | 14.1   | 40.4 | 92.1  | 0.6  | 60.0            | 442        | 7   |
| Lab #0666  | 06-02-16     | 3.4                    | 48.8  | 11.8   | 36.0 | 94.2  | 0.1  | 55.3            | 417        | 1   |
| SPRINGFIELD AGGREGATE SUPPLY, JEFFERSON CITY, MO       |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0275  | 03-18-16     | 0.1                    | 0.7   | 1.0    | 98.2 | 93.3  | 0.2  | 99.0            | 739        | 4   |
| SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO         |              |                        |       |        |      |       |      |                 |            |     |
| S-S-S INC, LOUISIANA, MO                               |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0042  | 02-02-16     | 6.8                    | 44.1  | 10.2   | 38.9 | 93.7  | 0.2  | 56.0            | 420        | 2   |
| Lab #0182  | 02-22-16     | 4.1                    | 45.9  | 11.9   | 38.1 | 95.9  | 0.5  | 56.7            | 435        | 6   |
| Lab #0372  | 03-28-16     | 3.3                    | 45.8  | 12.0   | 38.9 | 95.4  | 0.2  | 57.6            | 439        | 2   |
| Lab #0496  | 04-25-16     | 4.5                    | 45.6  | 11.0   | 38.9 | 95.0  | 0.4  | 56.9            | 432        | 5   |
| Lab #0610  | 05-19-16     | 6.2                    | 44.5  | 11.8   | 37.5 | 96.5  | 0.2  | 55.7            | 430        | 2   |
| STOCKMAN QUARRY, LLC, JEFFERSON CITY, MO               |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0725  | 06-09-16     | 2.5                    | 36.6  | 11.5   | 49.4 | 82.4  | 10.0 | 66.0            | 431        | 131 |
| STRACK STONE - FRUITLAND, JACKSON, MO                  |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #3   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0211  | 02-18-16     | 1.4                    | 38.5  | 13.1   | 47.0 | 99.2  | 1.4  | 64.5            | 512        | 18  |
| Lab #0212  | 02-19-16     | 0.8                    | 34.0  | 14.1   | 51.1 | 100.5 | 2.5  | 68.1            | 547        | 34  |
| Lab #0154  | 02-25-16     | 1.6                    | 37.1  | 13.5   | 47.8 | 100.1 | 2.2  | 65.2            | 522        | 29  |
| Lab #0282  | 03-18-16     | 0.2                    | 42.2  | 15.6   | 42.0 | 99.5  | 1.5  | 61.9            | 493        | 19  |
| Lab #0310  | 03-23-16     | 0.1                    | 40.5  | 16.5   | 42.9 | 100.0 | 1.5  | 62.9            | 503        | 19  |
| Lab #0605  | 05-20-16     | 0.1                    | 40.4  | 14.5   | 45.0 | 100.5 | 2.9  | 63.8            | 513        | 37  |
| Lab #0634  | 05-24-16     | 0.2                    | 44.5  | 14.2   | 41.1 | 99.4  | 2.3  | 60.7            | 483        | 28  |
| Stockpile #4   |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0283  | 03-18-16     | 0.1                    | 37.0  | 19.0   | 43.9 | 98.6  | 1.6  | 64.6            | 509        | 21  |
| Lab #0311  | 03-23-16     | 0.1                    | 44.6  | 14.9   | 40.4 | 98.5  | 1.3  | 60.5            | 477        | 16  |
| Lab #0312  | 03-24-16     | 0.1                    | 36.2  | 17.7   | 46.0 | 98.1  | 1.4  | 65.7            | 515        | 18  |
| Lab #0604  | 05-20-16     | 0.2                    | 39.8  | 15.6   | 44.4 | 98.5  | 1.9  | 63.7            | 502        | 24  |
| Lab #0635  | 05-24-16     | 0.2                    | 40.5  | 15.6   | 43.7 | 98.4  | 1.9  | 63.2            | 497        | 24  |
| STRACK STONE CO. - LODI, LLC, CAPE GIRARDEAU, MO       |              |                        |       |        |      |       |      |                 |            |     |



TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                                      | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE  | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|-------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |       |      |                 | ENM        | EMg |
| T&M STONE QUARRY LLC, FAIR PLAY, MO              |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0125  | 02-17-16     | 6.0                    | 52.4  | 13.5   | 28.1 | 93.2  | 0.1  | 49.3            | 368        | 1   |
| Lab #0295  | 03-21-16     | 6.8                    | 50.9  | 13.2   | 29.1 | 95.5  | 0.1  | 49.7            | 380        | 1   |
| Lab #0383  | 04-08-16     | 5.9                    | 50.8  | 12.6   | 30.7 | 92.3  | 0.1  | 51.0            | 376        | 1   |
| Lab #0484  | 04-28-16     | 5.7                    | 53.2  | 13.2   | 27.9 | 94.0  | 0.1  | 49.1            | 369        | 1   |
| Lab #0557  | 05-09-16     | 5.3                    | 47.0  | 13.6   | 34.1 | 92.8  | 0.1  | 54.0            | 401        | 1   |
| Lab #0712  | 06-08-16     | 4.7                    | 48.6  | 13.4   | 33.3 | 96.7  | 0.1  | 53.5            | 414        | 1   |
| T&M STONE QUARRY, LLC, WHITEWATER, MO            |              |                        |       |        |      |       |      |                 |            |     |
| TABLE ROCK ASPHALT CONST CO INC, BRANSON, MO     |              |                        |       |        |      |       |      |                 |            |     |
| TABLE ROCK ASPHALT CONST CO INC-KIM, BRANSON, MO |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0435  | 04-19-16     | 0.7                    | 36.5  | 15.7   | 47.1 | 87.4  | 0.6  | 65.6            | 459        | 8   |
| Lab #0700  | 06-06-16     | 9.5                    | 32.9  | 7.8    | 49.8 | 91.8  | 10.9 | 62.7            | 461        | 137 |
| TAYLOR QUARRIES, LOCKWOOD, MO                    |              |                        |       |        |      |       |      |                 |            |     |
| THE ANDERSONS, INC.-SEYMOUR, IN, MAUMEE, OH      |              |                        |       |        |      |       |      |                 |            |     |
| THE HITCHING POST, BOURBON, MO                   |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0308  | 03-21-16     | 0.0                    | 0.4   | 0.9    | 98.7 | 100.3 | 8.4  | 99.3            | 797        | 167 |
| Stockpile #2                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0299  | 03-21-16     | 0.1                    | 5.4   | 15.6   | 78.9 | 96.1  | 10.9 | 89.6            | 689        | 195 |
| TOWER ROCK STONE CO, STE GENEVIEVE, MO           |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0163  | 02-23-16     | 0.2                    | 37.0  | 17.2   | 45.6 | 96.9  | 1.0  | 65.2            | 505        | 13  |
| Lab #0446  | 04-21-16     | 1.3                    | 46.1  | 13.9   | 38.7 | 96.9  | 0.8  | 58.6            | 454        | 9   |
| Lab #0650  | 05-31-16     | 0.3                    | 42.4  | 14.7   | 42.6 | 96.0  | 0.9  | 62.0            | 476        | 11  |
| Stockpile #2                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0164  | 02-23-16     | 5.0                    | 36.4  | 11.9   | 46.7 | 96.6  | 6.0  | 62.9            | 486        | 76  |
| Lab #0438  | 04-21-16     | 1.3                    | 43.0  | 12.2   | 43.5 | 96.5  | 4.5  | 61.6            | 475        | 55  |
| Lab #0651  | 05-31-16     | 0.9                    | 37.4  | 14.6   | 47.1 | 97.0  | 2.4  | 65.2            | 506        | 31  |
| Stockpile #3                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0165  | 02-23-16     | 3.1                    | 43.9  | 14.5   | 38.5 | 97.8  | 0.3  | 58.2            | 455        | 3   |
| Lab #0439  | 04-21-16     | 2.2                    | 43.1  | 15.5   | 39.2 | 97.9  | 0.3  | 59.3            | 464        | 4   |
| Lab #0652  | 05-31-16     | 1.2                    | 40.8  | 16.3   | 41.7 | 98.1  | 0.2  | 61.7            | 484        | 2   |
| Stockpile #5                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0150  | 02-23-16     | 4.0                    | 50.7  | 11.5   | 33.8 | 94.0  | 1.5  | 53.4            | 401        | 16  |
| Lab #0440  | 04-21-16     | 3.3                    | 49.5  | 11.0   | 36.2 | 94.4  | 1.8  | 55.2            | 417        | 20  |
| Lab #0653  | 05-31-16     | 3.9                    | 49.9  | 10.6   | 35.6 | 95.2  | 1.7  | 54.4            | 415        | 19  |
| TRAGER LIMESTONE-NETTLETON, CHILLICOTHE, MO      |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0113  | 02-18-16     | 0.5                    | 49.2  | 10.6   | 39.7 | 81.4  | 1.3  | 58.4            | 380        | 15  |
| Lab #0178  | 03-01-16     | 0.5                    | 55.1  | 11.7   | 32.7 | 77.3  | 1.3  | 53.5            | 331        | 14  |
| Lab #0300  | 03-23-16     | 0.6                    | 56.1  | 9.3    | 34.0 | 74.2  | 1.8  | 53.6            | 318        | 19  |
| Lab #0340  | 03-29-16     | 0.6                    | 55.2  | 10.8   | 33.4 | 84.5  | 0.8  | 53.7            | 363        | 9   |
| Lab #0432  | 04-20-16     | 0.7                    | 58.2  | 11.9   | 29.2 | 86.2  | 1.0  | 50.9            | 351        | 10  |
| Lab #0633  | 05-25-16     | 0.3                    | 46.4  | 12.2   | 41.1 | 78.3  | 1.3  | 60.0            | 376        | 16  |
| TRAGER LIMESTONE LLC-GALLATIN, CHILLOTHIE, MO    |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0112  | 02-18-16     | 0.1                    | 55.6  | 11.0   | 33.3 | 72.7  | 1.3  | 53.8            | 313        | 14  |
| Lab #0177  | 03-01-16     | 0.1                    | 51.8  | 12.3   | 35.8 | 81.6  | 0.9  | 56.1            | 366        | 10  |
| Lab #0207  | 03-03-16     | 0.1                    | 54.4  | 11.4   | 34.1 | 76.3  | 1.3  | 54.5            | 333        | 14  |
| Lab #0431  | 04-20-16     | 0.1                    | 49.4  | 12.1   | 38.4 | 74.7  | 1.5  | 58.0            | 347        | 17  |
| Lab #0632  | 05-25-16     | 0.1                    | 53.4  | 11.5   | 35.0 | 81.4  | 0.9  | 55.3            | 360        | 10  |
| TRI COUNTY WATER AUTHORITY, INDEPENDENCE, MO     |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0020  | 01-15-16     | 0.0                    | 0.4   | 0.2    | 99.4 | 87.4  | 1.5  | 99.6            | 697        | 30  |
| Lab #0136  | 02-18-16     | 0.5                    | 0.9   | 0.5    | 98.1 | 86.3  | 1.7  | 98.6            | 681        | 34  |
| Lab #0324  | 03-23-16     | 0.0                    | 1.2   | 0.5    | 98.3 | 89.0  | 1.5  | 98.9            | 704        | 30  |
| Lab #0473  | 04-21-16     | 0.0                    | 0.5   | 0.5    | 99.0 | 88.0  | 1.7  | 99.4            | 700        | 34  |
| Lab #0618  | 05-20-16     | 0.1                    | 1.1   | 0.6    | 98.2 | 87.8  | 1.6  | 98.8            | 694        | 32  |
| TWIN STATES LIMESTONE - REGER, MILAN, MO         |              |                        |       |        |      |       |      |                 |            |     |
| Stockpile #1                                     |              |                        |       |        |      |       |      |                 |            |     |
| Lab #0064  | 02-09-16     | 3.0                    | 46.7  | 8.5    | 41.8 | 89.2  | 0.3  | 58.6            | 418        | 4   |
| Lab #0224  | 03-07-16     | 1.2                    | 38.7  | 11.2   | 48.9 | 89.4  | 0.3  | 65.3            | 467        | 4   |
| Lab #0345  | 04-04-16     | 0.1                    | 36.7  | 13.3   | 49.9 | 92.2  | 0.2  | 67.1            | 495        | 3   |
| Lab #0631  | 05-23-16     | 0.4                    | 41.7  | 13.5   | 44.4 | 87.6  | 0.3  | 62.9            | 441        | 4   |
| UNITED SUPPLIERS, ELDORA, IA                     |              |                        |       |        |      |       |      |                 |            |     |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor  | Date Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness Factor | Pounds/Ton |     |
|--|--------------|------------------------|-------|--------|------|------|------|-----------------|------------|-----|
|  |              | +8                     | -8+40 | -40+60 | -60  |      |      |                 | ENM        | EMg |
| WADE AG PRODUCTS-MAIN OFC, LACYGNE, KS               |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0083  | 02-10-16     | 6.9                    | 50.2  | 9.6    | 33.3 | 84.7 | 1.4  | 51.6            | 350        | 14  |
| Lab #0260  | 03-14-16     | 7.7                    | 50.8  | 9.4    | 32.1 | 87.0 | 1.3  | 50.4            | 351        | 13  |
| Lab #0454  | 04-21-16     | 5.3                    | 48.4  | 9.0    | 37.3 | 82.5 | 1.7  | 54.8            | 362        | 19  |
| Lab #0710  | 06-07-16     | 4.3                    | 48.9  | 9.7    | 37.1 | 82.2 | 1.3  | 55.1            | 363        | 14  |
| WADE AG PRODUCTS Q DREXEL, LACYGNE, KS               |              |                        |       |        |      |      |      |                 |            |     |
| WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0215  | 03-08-16     | 1.1                    | 43.3  | 12.1   | 43.5 | 97.8 | 12.0 | 61.6            | 482        | 148 |
| Lab #0330  | 03-29-16     | 0.5                    | 45.2  | 12.6   | 41.7 | 98.4 | 11.7 | 60.6            | 477        | 142 |
| Lab #0472  | 04-25-16     | 0.9                    | 42.0  | 13.5   | 43.6 | 97.8 | 11.2 | 62.2            | 487        | 139 |
| Stockpile #2   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0216  | 03-08-16     | 1.3                    | 43.3  | 12.8   | 42.6 | 98.5 | 12.1 | 61.1            | 482        | 148 |
| Lab #0331  | 03-29-16     | 1.4                    | 42.4  | 13.2   | 43.0 | 97.6 | 11.5 | 61.5            | 480        | 141 |
| Lab #0471  | 04-25-16     | 0.8                    | 40.4  | 13.9   | 44.9 | 96.8 | 11.3 | 63.3            | 491        | 143 |
| FRED WEBER INC.-AUBURN QUARRY, MARYLAND HEIGHTS, MO  |              |                        |       |        |      |      |      |                 |            |     |
| FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL       |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0111  | 02-11-16     | 2.7                    | 16.3  | 9.7    | 71.3 | 89.0 | 1.8  | 81.2            | 578        | 29  |
| Lab #0232  | 03-03-16     | 1.1                    | 18.8  | 10.0   | 70.1 | 90.7 | 1.2  | 80.8            | 586        | 19  |
| Lab #0458  | 04-13-16     | 1.2                    | 16.0  | 9.5    | 73.3 | 89.5 | 1.1  | 83.0            | 594        | 18  |
| Lab #0507  | 05-03-16     | 0.5                    | 11.3  | 8.6    | 79.6 | 88.1 | 1.9  | 87.6            | 617        | 33  |
| Lab #0676  | 06-02-16     | 0.1                    | 13.6  | 8.1    | 78.2 | 90.3 | 0.3  | 86.5            | 625        | 5   |
| FRED WEBER, INC - FESTUS STONE, FESTUS, MO           |              |                        |       |        |      |      |      |                 |            |     |
| FRED WEBER, INC - FOLEY QUARRY, MARYLAND HEIGHTS, MO |              |                        |       |        |      |      |      |                 |            |     |
| FRED WEBER, INC.-NEW MELLE STONE, NEW MELLE, MO      |              |                        |       |        |      |      |      |                 |            |     |
| FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO    |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0066  | 02-10-16     | 0.7                    | 13.2  | 13.1   | 73.0 | 91.7 | 2.4  | 84.2            | 617        | 40  |
| Lab #0513  | 05-03-16     | 0.7                    | 15.9  | 17.5   | 65.9 | 93.8 | 1.7  | 80.4            | 603        | 27  |
| FRED WEBER, INC. - SOUTH STONE, ST. LOUIS, MO        |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0423  | 04-19-16     | 0.7                    | 22.0  | 15.6   | 61.7 | 91.9 | 2.9  | 76.6            | 563        | 44  |
| Lab #0514  | 05-03-16     | 0.6                    | 21.3  | 15.4   | 62.7 | 91.8 | 3.0  | 77.3            | 567        | 46  |
| WESTSIDE STONE CO, SPRINGFIELD, MO                   |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0159  | 02-25-16     | 0.2                    | 41.5  | 18.3   | 40.0 | 96.6 | 0.1  | 61.4            | 474        | 1   |
| Lab #0349  | 04-04-16     | 0.1                    | 41.4  | 17.6   | 40.9 | 96.9 | 0.1  | 61.8            | 479        | 1   |
| Lab #0565  | 05-10-16     | 0.5                    | 39.3  | 18.5   | 41.7 | 97.0 | 0.1  | 62.6            | 486        | 1   |
| Lab #0659  | 05-31-16     | 0.2                    | 40.4  | 18.9   | 40.5 | 97.0 | 0.1  | 61.9            | 481        | 1   |
| WIELAND HAULING INC.- JEFFRIES, BETHANY, MO          |              |                        |       |        |      |      |      |                 |            |     |
| WIELAND HAULING INC.-MERCER, BETHANY, MO             |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0063  | 02-08-16     | 7.7                    | 42.3  | 8.0    | 42.0 | 76.8 | 1.0  | 57.4            | 353        | 11  |
| Lab #0254  | 03-14-16     | 7.2                    | 41.4  | 8.2    | 43.2 | 76.0 | 1.0  | 58.5            | 355        | 12  |
| Lab #0397  | 04-12-16     | 7.6                    | 42.1  | 8.6    | 41.7 | 73.6 | 1.1  | 57.4            | 338        | 13  |
| Lab #0500  | 05-03-16     | 9.6                    | 41.0  | 7.3    | 42.1 | 75.0 | 1.3  | 56.7            | 340        | 15  |
| Lab #0629  | 05-24-16     | 7.7                    | 43.1  | 9.2    | 40.0 | 74.5 | 1.2  | 56.3            | 336        | 14  |
| WILKERSON BROS QUARRY, PARIS, MO                     |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #3   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0036  | 02-01-16     | 3.5                    | 48.5  | 11.2   | 36.8 | 89.2 | 2.6  | 55.6            | 397        | 29  |
| Lab #0190  | 03-01-16     | 2.5                    | 47.9  | 14.2   | 35.4 | 85.9 | 0.7  | 55.9            | 384        | 8   |
| Lab #0315  | 03-23-16     | 2.4                    | 45.1  | 13.5   | 39.0 | 92.7 | 1.9  | 58.4            | 433        | 22  |
| Lab #0405  | 04-06-16     | 2.5                    | 48.4  | 14.1   | 35.0 | 91.6 | 2.1  | 55.6            | 407        | 23  |
| Lab #0491  | 04-21-16     | 3.9                    | 48.2  | 12.6   | 35.3 | 91.6 | 2.2  | 54.9            | 402        | 24  |
| Lab #0611  | 05-20-16     | 3.6                    | 47.3  | 13.3   | 35.8 | 88.2 | 0.9  | 55.6            | 392        | 10  |
| Lab #0697  | 06-07-16     | 1.5                    | 45.9  | 13.9   | 38.7 | 89.6 | 1.2  | 58.5            | 419        | 14  |
| Stockpile #4   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0698  | 06-07-16     | 1.1                    | 40.7  | 13.6   | 44.6 | 79.8 | 0.2  | 62.9            | 402        | 3   |
| WILLARD ASPHALT - #18 SLEEPER, LEBANON, MO           |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0135  | 02-22-16     | 0.0                    | 0.6   | 1.3    | 98.1 | 88.8 | 11.1 | 99.0            | 704        | 220 |
| Lab #0434  | 04-18-16     | 0.0                    | 0.3   | 2.3    | 97.4 | 78.2 | 9.4  | 98.9            | 618        | 186 |
| Lab #0561  | 05-12-16     | 0.0                    | 0.2   | 2.0    | 97.8 | 79.8 | 10.0 | 99.1            | 632        | 198 |
| WILLARD ASPHALT PAVING,- #19, LEBANON, MO            |              |                        |       |        |      |      |      |                 |            |     |
| Stockpile #1   |              |                        |       |        |      |      |      |                 |            |     |
| Lab #0094  | 02-17-16     | 0.0                    | 0.4   | 1.5    | 98.1 | 86.3 | 10.7 | 99.1            | 684        | 212 |
| Lab #0542  | 05-10-16     | 0.1                    | 1.2   | 1.5    | 97.2 | 89.8 | 10.8 | 98.4            | 707        | 213 |
| Lab #0724  | 06-09-16     | 0.1                    | 0.9   | 1.3    | 97.7 | 89.0 | 10.9 | 99.0            | 703        | 215 |

TABLE 1

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Distributor                              | Date<br>Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness<br>Factor | Pounds/Ton |     |
|--|-----------------|------------------------|-------|--------|------|------|------|--------------------|------------|-----|
|  |                 | +8                     | -8+40 | -40+60 | -60  |      |      |                    | ENM        | EMg |
| WILLARD QUARRY-SLEEPER, LEBANON, MO      |                 |                        |       |        |      |      |      |                    |            |     |
| WILLARD QUARRIES- ST ROBERT, LEBANON, MO |                 |                        |       |        |      |      |      |                    |            |     |
| Stockpile #1                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0093                                | 02-17-16        | 1.2                    | 43.3  | 15.5   | 40.0 | 87.8 | 10.8 | 60.1               | 422        | 130 |
| Lab #0541                                | 05-10-16        | 1.0                    | 43.3  | 16.2   | 39.5 | 88.5 | 10.8 | 60.0               | 425        | 130 |
| Lab #0723                                | 06-09-16        | 1.6                    | 52.7  | 13.2   | 32.5 | 79.2 | 9.6  | 54.0               | 340        | 103 |
| WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO |                 |                        |       |        |      |      |      |                    |            |     |
| Stockpile #1                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0060                                | 02-04-16        | 0.0                    | 33.2  | 19.8   | 47.0 | 97.0 | 12.2 | 67.2               | 521        | 164 |
| Lab #0670                                | 06-02-16        | 1.6                    | 36.4  | 12.9   | 49.1 | 93.7 | 11.6 | 65.9               | 494        | 153 |

TABLE 2

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Dealer and<br>Producer                            | Date<br>Sampled | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg  | Fineness<br>Factor | Pounds/Ton |     |
|---|-----------------|------------------------|-------|--------|------|------|------|--------------------|------------|-----|
|   |                 | +8                     | -8+40 | -40+60 | -60  |      |      |                    | ENM        | EMg |
| AGRI SERVICES OF LEBANON, LEBANON, MO             |                 |                        |       |        |      |      |      |                    |            |     |
| CONCO QUARRIES INC Q US 160, WILLARD, MO          |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0134   | 02-22-16        | 0.2                    | 20.7  | 18.7   | 60.4 | 98.0 | 0.2  | 76.8               | 602        | 3   |
| Lab #0433   | 04-18-16        | 0.3                    | 21.5  | 17.2   | 61.0 | 97.7 | 0.6  | 76.7               | 599        | 9   |
| BELLE PLANT FOODS, BELLE, MO                      |                 |                        |       |        |      |      |      |                    |            |     |
| BARRETT MATERIALS INC, NEW HAVEN, MO              |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0367   | 04-07-16        | 2.9                    | 18.6  | 9.2    | 69.3 | 90.8 | 10.6 | 79.5               | 577        | 168 |
| DICKEY FARM SUPPLY, CENTERVILLE, MO               |                 |                        |       |        |      |      |      |                    |            |     |
| LANGE STEGMANN FERTILIZER, ST LOUIS, MO           |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0218   | 03-08-16        | 0.5                    | 12.3  | 9.6    | 77.6 | 89.9 | 1.4  | 86.4               | 622        | 24  |
| Lab #0469   | 04-25-16        | 1.3                    | 15.0  | 7.8    | 75.9 | 88.2 | 1.7  | 84.3               | 595        | 29  |
| FARMER'S COOP #280, FREEBURG, MO                  |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0030   | 02-04-16        | 0.3                    | 18.4  | 9.3    | 72.0 | 89.2 | 1.1  | 82.2               | 586        | 18  |
| FARMERS PRODUCERS EXCHANGE-CONWAY, LEBANON, MO    |                 |                        |       |        |      |      |      |                    |            |     |
| CONCO QUARRIES INC Q US 160, WILLARD, MO          |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0202   | 03-01-16        | 0.2                    | 21.0  | 18.8   | 60.0 | 98.0 | 0.2  | 76.5               | 600        | 3   |
| GIBSON LIME CO-DEXTER, DEXTER, MO                 |                 |                        |       |        |      |      |      |                    |            |     |
| SCAGGS ROCK-N-LIME, INC., PATTERSON, MO           |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0412   | 04-11-16        | 2.7                    | 14.3  | 25.2   | 57.8 | 97.1 | 11.9 | 76.5               | 594        | 182 |
| HEARTLAND MATERIALS LLC, JACKSON, MO              |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0413   | 04-11-16        | 3.8                    | 35.6  | 14.9   | 45.7 | 97.4 | 2.1  | 63.5               | 495        | 27  |
| HELENA CHEMICAL COMPANY-HARRIS, NEWTOWN, MO       |                 |                        |       |        |      |      |      |                    |            |     |
| MK MINERALS INC., WATHENA, KS                     |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0398   | 04-13-16        | 0.1                    | 0.5   | 1.1    | 98.3 | 88.5 | 0.6  | 99.1               | 702        | 12  |
| JEFFCO FERTILIZER, DESOTO, MO                     |                 |                        |       |        |      |      |      |                    |            |     |
| LANGE STEGMANN FERTILIZER, ST LOUIS, MO           |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0206   | 03-03-16        | 0.5                    | 17.0  | 13.4   | 69.1 | 89.6 | 0.5  | 81.4               | 583        | 8   |
| Lab #0280   | 03-18-16        | 0.4                    | 13.2  | 9.9    | 76.5 | 89.3 | 0.3  | 85.7               | 613        | 5   |
| MFA AGRI-SERVICES MIDSOUTH, POPLAR BLUFF, MO      |                 |                        |       |        |      |      |      |                    |            |     |
| FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL    |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0281   | 03-14-16        | 1.4                    | 14.9  | 10.0   | 73.7 | 90.3 | 1.0  | 83.4               | 603        | 17  |
| LOHMAN PRODUCERS EXCHANGE, LOHMAN, MO             |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0062   | 02-08-16        | 2.0                    | 11.0  | 9.4    | 77.6 | 88.7 | 1.0  | 86.0               | 610        | 17  |
| Lab #0533   | 05-05-16        | 1.5                    | 18.5  | 9.8    | 70.2 | 89.7 | 0.8  | 80.7               | 579        | 13  |
| MFA EXCHANGE, META, MO                            |                 |                        |       |        |      |      |      |                    |            |     |
| KELLY LIMESTONE LLC, KIRKSVILLE, MO               |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0172   | 02-29-16        | 1.0                    | 17.7  | 10.5   | 70.8 | 89.7 | 1.5  | 81.5               | 585        | 24  |
| Lab #0551   | 05-12-16        | 1.6                    | 15.1  | 8.1    | 75.2 | 89.9 | 1.3  | 83.8               | 603        | 22  |
| MFA AGRI SERVICE, BETHANY, MO                     |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0277   | 03-16-16        | 0.8                    | 19.6  | 13.5   | 66.1 | 89.4 | 0.4  | 79.1               | 566        | 6   |
| MFA AGRI SERVICE, BROOKFIELD, MO                  |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0199   | 03-02-16        | 4.7                    | 13.8  | 12.5   | 69.0 | 89.1 | 0.5  | 80.0               | 570        | 8   |
| Lab #0450   | 04-22-16        | 4.0                    | 13.4  | 11.7   | 70.9 | 88.9 | 0.5  | 81.3               | 578        | 8   |
| FARMERS 280 FERTILIZER COMPANY, FREEBURG, MO      |                 |                        |       |        |      |      |      |                    |            |     |
| FARMERS 280 FERTILIZER COMPANY, FREEBURG, MO      |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0173   | 02-29-16        | 0.4                    | 21.6  | 10.3   | 67.7 | 89.7 | 1.1  | 79.3               | 569        | 17  |
| MFA AGRI SERVICE, JEFFERSON CITY, MO              |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0027   | 02-02-16        | 0.6                    | 20.5  | 9.9    | 69.0 | 90.0 | 1.6  | 80.1               | 576        | 26  |
| MFA AGRI SERVICE, LANCASTER, MO                   |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0149   | 02-24-16        | 0.7                    | 17.8  | 9.6    | 71.9 | 90.9 | 1.2  | 82.1               | 597        | 20  |
| FARMERS PRODUCE EXCHANGE, LEBANON, MO             |                 |                        |       |        |      |      |      |                    |            |     |
| CONCO QUARRIES INC Q US 160, WILLARD, MO          |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0133   | 02-22-16        | 0.2                    | 17.6  | 17.4   | 64.8 | 97.5 | 0.2  | 79.6               | 621        | 3   |
| MFA AGRI SERVICE, OWENSVILLE, MO                  |                 |                        |       |        |      |      |      |                    |            |     |
| BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0365   | 04-07-16        | 0.7                    | 0.6   | 0.9    | 97.8 | 97.8 | 6.8  | 98.5               | 771        | 134 |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0069   | 02-11-16        | 0.7                    | 21.5  | 9.5    | 68.3 | 89.0 | 1.3  | 79.4               | 565        | 21  |
| Lab #0366   | 04-07-16        | 1.1                    | 17.9  | 10.2   | 70.8 | 90.2 | 0.7  | 81.4               | 587        | 11  |
| FARMER EXCHANGE BULK PLANT - ROLLA, ROLLA, MO     |                 |                        |       |        |      |      |      |                    |            |     |
| MFA INC, COLUMBIA, MO                             |                 |                        |       |        |      |      |      |                    |            |     |
| Lab #0028   | 02-04-16        | 1.1                    | 18.0  | 8.0    | 72.9 | 89.6 | 2.0  | 82.2               | 589        | 33  |
| Lab #0298   | 03-21-16        | 0.7                    | 17.5  | 9.2    | 72.6 | 89.9 | 1.0  | 82.5               | 593        | 16  |

TABLE 2

## AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2016

| Dealer and<br>Producer  | Date<br>Sampled    | U.S. Sieve Fraction, % |       |        |      | %CCE | %Mg | Fineness<br>Factor | Pounds/Ton |     |
|---|--------------------|------------------------|-------|--------|------|------|-----|--------------------|------------|-----|
|   |                    | +8                     | -8+40 | -40+60 | -60  |      |     |                    | ENM        | EMg |
| MFA AGRI SERVICE, ST CLAIR, MO<br>MFA INC, COLUMBIA, MO                                     | Lab #0107 02-18-16 | 0.0                    | 0.1   | 0.3    | 99.6 | 92.3 | 0.1 | 99.8               | 329        | 18  |
| MFA EXCHANGE, SALEM, MO<br>FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL                   | Lab #0170 02-25-16 | 2.5                    | 19.0  | 9.5    | 69.0 | 90.5 | 1.9 | 79.5               | 575        | 30  |
| LEO O'LAUGHLIN, MACON, MO<br>CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO               | Lab #0023 02-02-16 | 1.3                    | 35.0  | 13.9   | 49.8 | 78.0 | 0.1 | 66.9               | 417        | 1   |
|   | Lab #0197 03-02-16 | 1.8                    | 35.3  | 13.0   | 49.9 | 85.5 | 0.3 | 66.5               | 455        | 4   |
|   | Lab #0377 04-07-16 | 1.3                    | 22.1  | 13.8   | 62.8 | 82.9 | 0.3 | 76.6               | 508        | 5   |
|   | Lab #0429 04-19-16 | 1.0                    | 12.1  | 13.1   | 73.8 | 80.8 | 0.4 | 84.7               | 547        | 7   |
|   | Lab #0523 05-04-16 | 1.2                    | 28.6  | 13.6   | 56.6 | 81.9 | 0.3 | 71.9               | 471        | 4   |
|   | Lab #0694 06-07-16 | 0.9                    | 25.7  | 14.6   | 58.8 | 78.8 | 0.3 | 74.0               | 466        | 4   |
| LEO O'LAUGHLIN INC, MARCELINE, MO<br>CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO       | Lab #0024 02-02-16 | 1.1                    | 34.6  | 12.3   | 52.0 | 84.7 | 0.2 | 68.0               | 461        | 3   |
|   | Lab #0198 03-02-16 | 0.8                    | 32.6  | 13.8   | 52.8 | 88.8 | 0.3 | 69.2               | 492        | 4   |
|   | Lab #0378 04-07-16 | 1.4                    | 34.1  | 13.9   | 50.6 | 88.8 | 0.3 | 67.5               | 479        | 4   |
|   | Lab #0499 05-02-16 | 1.8                    | 33.2  | 13.1   | 51.9 | 88.0 | 0.2 | 68.1               | 479        | 3   |
| R & M FEED, POTOSI, MO<br>LANGE STEGMANN FERTILIZER, ST LOUIS, MO                           | Lab #0217 03-08-16 | 0.3                    | 14.9  | 7.6    | 77.2 | 89.3 | 0.4 | 85.5               | 611        | 7   |
|   | Lab #0470 04-25-16 | 1.0                    | 18.2  | 10.2   | 70.6 | 90.6 | 0.8 | 81.3               | 589        | 13  |
| SCHAEPERKOETTER STORE, MT STERLING, MO<br>FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO | Lab #0193 03-02-16 | 0.0                    | 0.2   | 0.7    | 99.1 | 98.1 | 8.9 | 99.6               | 781        | 177 |
| STRAATMANN FEED, LABADIE, MO<br>LANGE STEGMANN FERTILIZER, ST LOUIS, MO                     | Lab #0271 03-16-16 | 3.6                    | 15.2  | 9.4    | 71.8 | 89.6 | 2.4 | 81.2               | 582        | 39  |
| STOCKMAN FEED & FERTILIZER, JEFFERSON CITY, MO<br>GAVILON FERTILIZER, LLC, SAUGET, IL       | Lab #0196 03-02-16 | 0.9                    | 24.6  | 10.1   | 64.4 | 88.6 | 1.8 | 76.6               | 543        | 28  |
|   | Lab #0658 06-02-16 | 0.5                    | 19.6  | 10.7   | 69.2 | 91.4 | 0.8 | 80.5               | 589        | 13  |

EXAMPLES OF FINENESS FACTOR CALCULATION, ENM AND EMgDERIVATION OF FINENESS FACTOREXAMPLE

| US Standard Sieve Fractions | Efficiency Index |   | % Found in sample |   | Fineness Components |
|-----------------------------|------------------|---|-------------------|---|---------------------|
| Retained on 8               | 0                | X | 4.0               | = | 0                   |
| Pass. 8-Ret. On 40          | .25              | X | 34                | = | 8.5                 |
| Pass. 40-Ret. On 60         | .60              | X | 10                | = | 6.0                 |
| Passing 60                  | 1.00             | X | 52.0              | = | 52.0                |

Sum of fineness components = FINENESS FACTOR = 66.5

EFFECTIVE NEUTRALIZING MATERIALS (ENM) (pounds per ton)

$$\text{Formula: ENM} = \frac{\% \text{CCE}}{100} \times \frac{\text{FINENESS FACTOR (FF)}}{100} \times 800$$

## DRY AG LIME

| FF<br>% CCE | 100 | 90  | 80  | 70  | 60  | 50  | 40  |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 100         | 800 | 720 | 640 | 560 | 480 | 400 | 320 |
| 90          | 720 | 648 | 576 | 504 | 432 | 360 | 288 |
| 80          | 640 | 576 | 512 | 448 | 384 | 320 | 256 |
| 70          | 560 | 504 | 448 | 392 | 336 | 280 | 224 |
| 65*         | 520 | 468 | 416 | 364 | 312 | 260 | 208 |

\*65% is minimum %CCE allowed for dry ag lime

## FLUID AG LIME

|    |     |     |     |
|----|-----|-----|-----|
| 80 | 640 | 576 | 512 |
| 70 | 560 | 504 | 448 |
| 60 | 480 | 432 | 384 |
| 50 | 400 | 360 | 320 |
| 40 | 320 | 288 | 256 |
| 30 | 240 | 216 | 192 |
| 20 | 160 | 144 | 128 |
| 10 | 80  | 72  | 64  |

EFFECTIVE MAGNESIUM (EMg) (pounds per ton)

$$\text{Formula: EMg} = \frac{\% \text{Mg}}{100} \times \frac{\text{FINENESS FACTOR}}{100} \times 2000$$

## FINENESS FACTOR

| % Mg | 100 | 90  | 80  | 70  | 60  | 50  | 40  |
|------|-----|-----|-----|-----|-----|-----|-----|
| 13   | 260 | 234 | 208 | 182 | 156 | 130 | 104 |
| 11   | 220 | 198 | 176 | 154 | 132 | 110 | 88  |
| 9    | 180 | 162 | 144 | 126 | 108 | 90  | 72  |
| 7    | 140 | 126 | 112 | 98  | 84  | 70  | 56  |
| 5    | 100 | 90  | 80  | 80  | 70  | 60  | 40  |
| 3    | 60  | 54  | 48  | 42  | 36  | 30  | 24  |
| 1    | 20  | 18  | 16  | 14  | 12  | 10  | 8   |

In 1976 when the Missouri Agricultural Liming Materials Law and Rules was implemented, representatives from the ag lime producing community recommended and agreed that agricultural limestone would be defined as “finely ground or crushed limestone either calcitic or dolomitic, which shall have a minimum specification of ninety percent of the materials passing through a United States standard number eight sieve;” found in RSMO Section 266.505 Definitions (1) and “All dry agricultural liming materials offered for sale shall have a minimum calcium carbonate equivalent of sixty-five percent (65%), and shall meet the minimum specifications of 6 CSR 250-10.020(2).”, found in 6CSR 250-10.020 Agricultural Liming Materials Standards. These specifications were agreed to because they support and predict how an agricultural liming materials application will perform when applied to neutralize soil acidity.

Several years ago, Dr. Jim Brown supplied an article for inclusion in this report at the time describing a block of ag lime. The block was 1 cubic foot and as such it affected only 1 square foot of soil when applied to the field. However, that same cubic foot if ground properly affects a much larger area and actually will neutralize soil acidity.

This is important because if the ag lime does not perform as expected nutrient applications also act inefficiently, which could cause nutrient loss from agricultural fields.

Agricultural Liming Materials  
Control Services  
University of Missouri-Columbia  
Columbia, MO 65211-8080

Address Service Requested

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This report also available on the web at:

[HTTP://aes.missouri.edu/pfcs/aglime/index.stm](http://aes.missouri.edu/pfcs/aglime/index.stm)