

**Missouri
Agricultural Liming
Materials Report**

January 1 to June 30, 2017

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, 2017. There were 831 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. Nineteen deficient samples are reported, all 16 were for excessive coarseness, 3 were for low CCE. There were five "stop sale" orders issued against producer stockpiles for excessive coarseness. There were no Stop Sale Orders released. There were no deficient samples reported at any 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.

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	576,550	946,051	1,522,601

* PRELIMINARY ESTIMATE

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

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, PLEASANT HILL, MO										
Stockpile #2										
Lab #0136	02-21-17	1.1	55.0	11.4	32.5	82.8	0.4	53.1	352	4
Lab #0365	03-27-17	1.3	57.1	10.7	30.9	86.4	0.5	51.6	357	5
Lab #0537	04-28-17	8.6	53.2	9.0	29.2	89.3	0.4	47.9	342	4
Lab #0815	06-05-17	1.1	55.0	9.9	34.0	83.3	0.5	53.7	358	5
ALLEN QUARRIES INC, LOCKWOOD, MO										
Stockpile #3										
Lab #0794	06-05-17	0.4	51.5	13.5	34.6	86.4	0.2	55.6	384	2
ANCHOR STONE, PINEVILLE, MO										
Stockpile #1										
Lab #0205	03-03-17	0.2	42.8	11.1	45.9	91.1	10.8	63.3	461	137
Lab #0583	05-05-17	0.2	41.7	9.1	49.0	91.1	10.8	64.9	473	140
Lab #0795	06-06-17	0.1	37.1	9.0	53.8	91.3	11.3	68.5	500	155
ANCHOR STONE CO, JOPLIN, MO										
APAC-CENTRAL INC.-N.HARRISON QUARRY, FAYETTEVILLE, AR										
Stockpile #1										
Lab #0318	03-14-17	4.7	50.0	13.0	32.3	93.8	0.2	52.6	395	2
Lab #0700	05-23-17	4.6	49.2	13.2	33.0	94.5	0.2	53.2	402	2
APAC-CENTRAL INC. -VALLEY SPRINGS, FAYETEVILLE, AR										
Stockpile #1										
Lab #0317	03-14-17	2.6	47.4	13.2	36.8	97.5	0.1	56.6	441	1
Lab #0706	05-23-17	3.8	48.1	11.9	36.2	95.3	0.2	55.4	422	2
APAC - BRICKEY'S STONE, BLOOMSDALE, MO										
Stockpile #1										
Lab #0252	03-07-17	5.2	43.2	12.1	39.5	97.4	0.6	57.6	449	7
Lab #0522	04-27-17	7.4	43.4	10.5	38.7	97.8	0.6	55.9	437	7
Lab #0662	05-18-17	4.4	42.1	12.4	41.1	97.5	0.6	59.1	461	7
APAC-CENTRAL, INC. - BUSIEK, FAYETTEVILLE, AR										
Stockpile #1										
Lab #0382	03-28-17	3.0	44.4	6.6	46.0	89.1	10.5	61.1	435	128
APAC-CENTRAL INC. - ROARK CREEK, FAYETTEVILLE, AR										
Stockpile #1										
Lab #0381	03-28-17	6.1	56.3	7.8	29.8	96.4	11.2	48.6	374	109
ARKANSAS LIME COMPANY, INC., BATESVILLE, AR										
ASH GROVE AGGREGATES-DEEPWATER, BUTLER, MO										
Stockpile #1										
Lab #0012	02-03-17	1.1	52.6	9.3	37.0	78.2	4.4	55.7	349	49
Lab #0192	03-03-17	1.2	50.7	9.3	38.8	78.8	4.0	57.1	360	46
Lab #0437	04-07-17	1.2	48.2	11.3	39.3	83.7	1.1	58.1	389	13
Lab #0572	05-05-17	1.1	46.4	10.6	41.9	85.4	0.6	59.9	409	7
ASH GROVES AGGREGATES-ELDORADO SPRI, BUTLER, MO										
Stockpile #1										
Lab #0321	03-13-17	0.8	55.1	10.9	33.2	88.0	5.1	53.5	377	55
Lab #0430	04-03-17	0.4	44.3	15.0	40.3	95.2	0.2	60.4	460	2
Lab #0491	04-17-17	0.7	49.8	13.6	35.9	88.5	2.3	56.5	400	26
Lab #0699	05-26-17	0.2	46.0	13.1	40.7	88.9	5.8	60.1	427	70
ASH GROVE AGGREGATES-FAIR GROVE, BUTLER, MO										
Stockpile #2										
Lab #0020	02-03-17	6.7	51.5	7.4	34.4	87.3	10.3	51.7	361	107
Lab #0385	03-31-17	6.0	52.0	6.9	35.1	88.8	10.5	52.2	371	110
Lab #0607	05-12-17	6.0	51.9	7.4	34.7	88.3	10.4	52.1	368	108
ASH GROVE AGGREGATES-FAIR PLAY, BUTLER, MO										
Stockpile #2										
Lab #0118	02-14-17	0.4	48.5	14.7	36.4	94.0	0.4	57.3	431	5
Lab #0388	03-31-17	0.3	46.8	13.5	39.4	89.0	0.5	59.2	422	6
Lab #0540	04-25-17	0.4	47.8	12.0	39.8	92.1	1.9	59.0	434	22
Lab #0678	05-18-17	0.2	41.4	13.5	44.9	97.3	4.6	63.4	493	58
ASH GROVE AGGREGATES INC-S&K, BUTLER, MO										
Stockpile #2										
Lab #0119	02-15-17	1.6	46.5	13.2	38.7	80.1	0.5	58.2	373	6
Lab #0324	03-16-17	1.4	45.6	14.8	38.2	81.4	0.6	58.5	381	7
Lab #0433	04-06-17	3.3	46.9	12.1	37.7	80.2	0.6	56.7	364	7
Lab #0612	05-09-17	1.9	45.3	12.5	40.3	85.8	0.7	59.1	406	8
ASH GROVE AGGREGATES INC-LACYGNE, BUTLER, MO										
Stockpile #1										
Lab #0270	03-08-17	1.8	41.5	10.2	46.5	81.0	1.3	63.0	408	16
Lab #0434	04-06-17	0.9	42.6	9.4	47.1	79.6	1.2	63.4	404	15
Lab #0613	05-09-17	0.6	43.3	9.9	46.2	80.3	1.2	63.0	404	15

TABLE 1
AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JANUARY 1 THROUGH JUNE 30, 2017

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 #2										
Lab #0271	03-08-17	8.7	46.1	8.8	36.4	85.7	0.5	53.2	365	5
Lab #0435	04-06-17	7.1	44.3	9.4	39.2	82.1	1.4	55.9	367	16
Lab #0614	05-09-17	7.3	43.7	8.6	40.4	81.1	1.2	56.5	366	14
ASH GROVE AGGREGATES INC-MARSHFIELD, BUTLER, MO										
ASH GROVE AGGREGATES INC-OSCEOLA, BUTLER, MO										
Stockpile #1										
Lab #0122	02-17-17	3.4	47.0	10.7	38.9	85.4	2.9	57.1	390	33
Lab #0389	03-31-17	2.8	47.1	12.2	37.9	91.7	1.1	57.0	418	13
Lab #0567	05-01-17	2.5	49.8	11.7	36.0	88.5	0.7	55.5	393	8
Lab #0226	04-01-25	0.9	35.9	16.2	47.0	79.8	0.1	65.7	419	1
ASH GROVE AGGREGATES INC-WHEATLAND, BUTLER, MO										
Stockpile #1										
Lab #0066	02-08-17	3.9	46.4	11.2	38.5	94.3	0.2	56.8	429	2
Lab #0188	03-01-17	1.1	48.9	12.0	38.0	95.4	0.2	57.4	438	2
Lab #0494	04-19-17	8.1	46.9	10.6	34.4	96.4	0.1	52.5	405	1
Lab #0696	05-25-17	10.8*	46.0	9.8	33.4	97.0	0.1	50.8	0	0
Stockpile #2										
Lab #0067	02-08-17	2.2	42.2	14.5	41.1	95.7	0.3	60.4	462	4
Lab #0189	03-01-17	1.3	40.1	14.6	44.0	96.0	0.3	62.8	482	4
Lab #0495	04-19-17	2.1	44.7	12.5	40.7	93.8	0.3	59.4	446	4
Lab #0697	05-25-17	1.7	45.2	14.3	38.8	95.1	0.2	58.7	446	2
ASH GROVE AGGREGATES INC-BUFFALO, BUTLER, MO										
Stockpile #1										
Lab #0168	02-21-17	4.0	37.8	10.3	47.9	84.3	10.1	63.5	428	128
Lab #0387	03-30-17	4.4	37.0	9.6	49.0	83.7	9.9	64.0	429	127
Lab #0542	04-27-17	3.4	39.6	11.8	45.2	84.5	10.1	62.2	420	126
Lab #0694	05-23-17	4.6	36.9	11.3	47.2	84.1	10.1	63.2	425	128
BAILEY QUARRIES INC-CHESAPEAKE Q., REPUBLIC, MO										
Stockpile #1										
Lab #0204	03-02-17	0.2	47.7	10.5	41.6	93.0	11.0	59.8	445	132
Lab #0349	03-21-17	0.4	49.7	9.6	40.3	94.2	11.0	58.5	441	129
Lab #0674	05-17-17	0.6	47.8	9.4	42.2	95.6	11.2	59.8	457	134
BAILEY QUARRIES, INC -EUDORA QUARRY, REPUBLIC, MO										
Stockpile #1										
Lab #0013	02-01-17	0.5	45.0	15.4	39.1	94.5	0.2	59.6	451	2
Lab #0202	03-02-17	1.0	43.6	15.6	39.8	94.9	0.1	60.1	456	1
Lab #0453	04-05-17	0.1	44.0	16.2	39.7	95.2	0.1	60.4	460	1
Lab #0675	05-18-17	0.3	42.2	16.8	40.7	97.1	0.2	61.3	476	2
Stockpile #2										
Lab #0014	02-01-17	0.3	52.5	12.3	34.9	90.2	0.7	55.4	400	8
Lab #0203	03-02-17	0.3	50.5	13.3	35.9	90.9	0.5	56.5	411	6
Lab #0450	04-05-17	0.2	50.8	12.6	36.4	89.2	0.6	56.7	404	7
Lab #0676	05-18-17	0.2	51.2	12.4	36.2	90.2	0.7	56.4	407	8
BAILEY QUARRIES, INC.-MADRY QUARRY, REPUBLIC, MO										
Stockpile #2										
Lab #0166	02-24-17	3.1	53.3	10.0	33.6	83.3	1.2	52.9	353	13
Lab #0509	04-20-17	3.1	55.7	10.7	30.5	84.8	1.2	50.8	345	12
BAILEY QUARRIES - SARCOXIE, REPUBLIC, MO										
Stockpile #1										
Lab #0039	02-07-17	7.6	48.1	10.5	33.8	83.3	0.1	52.1	347	1
Lab #0452	04-04-17	7.8	49.2	10.4	32.6	83.7	0.1	51.1	342	1
Lab #0606	05-11-17	7.0	48.3	11.8	32.9	88.4	0.1	52.1	368	1
BAILEY QUARRIES INC-STOCKTON, REPUBLIC, MO										
Stockpile #1										
Lab #0011	02-02-17	0.5	51.7	14.8	33.0	95.5	0.1	54.8	419	1
Lab #0191	03-02-17	0.1	56.5	13.5	29.9	96.5	0.3	52.1	402	3
Lab #0497	04-20-17	2.3	49.9	15.0	32.8	96.3	0.2	54.3	418	2
Lab #0569	05-03-17	5.5	53.1	12.9	28.5	96.0	0.2	49.5	380	2
Stockpile #2										
Lab #0498	04-20-17	0.8	52.8	13.9	32.5	96.6	0.1	54.0	418	1
Lab #0570	05-03-17	0.8	51.3	13.6	34.3	94.8	0.1	55.3	419	1
BARRETT MATERIALS, INC. - BELLE, NEW HAVEN, MO										
Stockpile #1										
Lab #0176	02-27-17	0.9	45.0	10.3	43.8	88.6	10.5	61.2	434	129
Lab #0392	03-27-17	0.2	37.6	11.3	50.9	89.0	10.4	67.1	478	140
BARRETT MATERIALS INC, NEW HAVEN, MO										

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

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 #2										
Lab #0183	03-01-17	0.2	33.5	18.4	47.9	101.9	11.7	67.3	549	158
Lab #0411	04-06-17	0.4	34.2	17.6	47.8	101.4	11.9	66.9	543	159
Lab #0761	05-31-17	0.2	37.0	17.9	44.9	101.4	11.8	64.9	526	153
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Stockpile #1										
Lab #0099	02-14-17	0.0	0.2	1.4	98.4	98.5	7.0	99.3	782	139
Lab #0685	05-25-17	0.0	0.5	1.1	98.4	98.6	4.9	99.2	782	97
Stockpile #2										
Lab #0098	02-14-17	0.6	29.8	15.5	54.1	96.1	0.8	70.9	545	11
Lab #0686	05-25-17	1.0	33.5	11.8	53.7	97.1	3.5	69.2	537	48
CALCIUM PRODUCTS, INC., AMES, IA										
CANE CREEK STONE, POPLAR BLUFF, MO										
CANTERA AGGREGATE INC, CORYDON, IA										
Stockpile #4										
Lab #0145	02-20-17	15.9*	43.1	7.9	33.1	70.1	0.3	48.6	0	0
CAPITAL MATERIALS - ADRIAN, JEFFERSON CITY, MO										
CAPITAL MATERIALS - WARSAW, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0064	02-06-17	4.0	49.4	10.6	36.0	93.5	0.5	54.7	409	5
Lab #0273	03-09-17	3.8	48.3	11.1	36.8	93.0	0.7	55.5	413	8
Lab #0432	04-05-17	5.0	49.4	10.9	34.7	92.7	0.8	53.6	397	9
Lab #0677	05-17-17	3.8	48.1	11.0	37.1	93.6	0.8	55.7	417	9
CAPITAL MATERIALS - TIGHTWAD, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0121	02-16-17	7.8	43.4	10.9	37.9	84.1	0.6	55.3	372	7
Lab #0325	03-17-17	2.0	47.4	13.2	37.4	93.3	0.2	57.2	427	2
Lab #0493	04-18-17	2.0	44.5	11.4	42.1	85.2	0.7	60.1	409	8
Lab #0679	05-19-17	4.8	47.8	10.8	36.6	86.0	0.7	55.0	379	8
CAPITAL MATERIALS - BAGNELL 13, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0322	03-14-17	1.3	38.5	16.2	44.0	92.5	10.8	63.3	469	137
Lab #0568	05-02-17	2.5	39.2	15.2	43.1	92.9	10.7	62.0	461	133
Stockpile #2										
Lab #0323	03-14-17	16.1*	45.3	10.9	27.7	88.8	10.5	45.6	0	0
CAPITAL MATERIALS CO.,-SNOW ROAD, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0059	02-08-17	0.3	50.8	8.9	40.0	85.9	6.2	58.0	399	72
Lab #0211	03-01-17	0.3	48.6	9.9	41.2	87.5	5.6	59.3	415	66
Lab #0446	04-05-17	0.2	48.5	9.9	41.4	88.4	5.0	59.5	421	59
Lab #0594	05-04-17	0.4	47.6	8.4	43.6	86.4	5.4	60.5	418	65
Lab #0822	06-09-17	0.4	49.1	9.6	40.9	88.8	5.0	58.9	419	59
Stockpile #3										
Lab #0290	03-14-17	17.8*	40.7	8.5	33.0	97.0	2.2	48.3	0	0
Stockpile #4										
Lab #0821	06-09-17	7.2	43.2	9.8	39.8	93.4	4.4	56.5	422	50
CAPITAL QUARRIES CO., INC.-ARCADIA, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0181	03-01-17	0.5	45.7	17.1	36.7	96.8	11.5	58.4	452	134
Lab #0414	04-06-17	0.7	49.7	14.9	34.7	96.3	11.6	56.1	432	130
Lab #0634	05-11-17	2.9	44.0	15.0	38.1	97.8	11.1	58.1	455	129
Lab #0747	05-31-17	1.3	48.5	13.1	37.1	98.5	11.5	57.1	450	131
CAPITAL QUARRIES, INC.- CEDAR CITY, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0174	02-27-17	0.2	50.6	11.4	37.8	89.7	1.0	57.3	411	11
Lab #0406	04-05-17	0.1	45.1	12.9	41.9	91.7	1.3	60.9	447	16
Lab #0588	05-05-17	1.1	48.3	12.3	38.3	88.0	0.6	57.8	407	7
CAPITAL QUARRIES, INC.- DANVILLE, JEFFERSON CITY, MO										
CAPITAL QUARRIES CO., INC- EUGENE, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0663	05-15-17	1.5	42.8	8.8	46.9	81.9	9.7	62.9	412	122
Lab #0682	05-24-17	1.3	38.8	8.8	51.1	82.4	9.7	66.1	436	128
Lab #0831	06-07-17	1.0	37.7	10.0	51.3	81.3	9.3	66.7	434	124
CAPITAL QUARRIES CO., INC.-OWENSVIL, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0031	02-06-17	1.7	43.0	10.1	45.2	89.4	10.5	62.0	443	130
Lab #0263	03-08-17	3.1	44.6	9.6	42.7	86.8	10.2	59.6	414	122
Lab #0680	05-23-17	2.3	43.4	10.6	43.7	89.4	10.6	60.9	436	129
CAPITAL QUARRIES, INC-STADIUM WEST, JEFFERSON CITY, MO										

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JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0095	02-13-17	1.1	14.0	8.2	76.7	87.7	10.4	85.1	597	177
Lab #0394	03-28-17	1.1	13.8	10.5	74.6	88.1	10.4	84.4	594	175
Lab #0652	05-16-17	1.8	15.9	8.8	73.5	88.1	10.4	82.8	583	172
CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0001	02-01-17	0.6	48.8	10.8	39.8	85.1	3.1	58.5	398	36
Lab #0218	03-03-17	0.2	41.9	11.9	46.0	91.7	2.1	63.6	467	27
CAPITAL QUARRIES INC.-HERMANN #14, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0033	02-06-17	1.5	47.1	7.6	43.8	89.1	10.6	60.1	429	127
Lab #0264	03-10-17	0.7	43.5	8.5	47.3	89.1	10.6	63.3	451	134
Lab #0480	04-20-17	0.3	43.3	8.1	48.3	89.0	10.8	64.0	456	138
CAPITAL QUARRIES INC. -HOLTS SUMMIT, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0034	02-07-17	6.2	39.8	9.1	44.9	67.6	0.6	60.3	326	7
Lab #0336	03-23-17	7.5	40.8	10.2	41.5	68.7	0.6	57.8	318	7
Lab #0584	05-02-17	7.3	37.0	7.9	47.8	63.3*	0.8	61.8	0	0
CAPITAL QUARRIES CO., - LINN, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0004	02-01-17	0.9	41.4	9.9	47.8	93.0	10.8	64.1	477	138
Lab #0296	03-13-17	2.2	45.7	9.6	42.5	92.6	11.2	59.7	442	134
Lab #0586	05-03-17	0.9	49.0	8.9	41.2	88.2	10.5	58.8	415	123
Lab #0830	06-06-17	1.8	46.4	9.2	42.6	94.6	11.0	59.7	452	131
CAPITAL QUARRIES, INC - SALEM, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0302	03-15-17	2.0	34.6	11.2	52.2	94.7	11.4	67.6	512	154
Lab #0650	05-16-17	0.6	33.7	11.7	54.0	95.1	11.2	69.4	528	156
CAPITAL QUARRIES INC-SULLIVAN, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0142	02-22-17	8.9	45.3	11.9	33.9	96.6	11.6	52.4	405	121
Lab #0405	04-04-17	8.6	44.4	13.9	33.1	99.7	11.6	52.5	419	122
Lab #0628	05-10-17	8.1	44.2	13.5	34.2	99.3	11.3	53.4	424	121
CARTHAGE CRUSHED LIMESTONE, CARTHAGE, MO										
Stockpile #1										
Lab #0197	02-27-17	0.0	0.8	1.5	97.7	96.4	0.2	98.8	762	4
Lab #0499	04-17-17	0.0	1.2	2.2	96.6	96.1	0.1	98.2	755	2
Lab #0603	05-10-17	0.4	6.1	3.6	89.9	97.0	0.1	93.6	726	2
Stockpile #2										
Lab #0198	02-27-17	0.3	1.0	3.2	95.5	96.2	0.2	97.7	752	4
Lab #0500	04-17-17	0.4	1.0	3.3	95.3	96.5	0.1	97.5	753	2
Lab #0604	05-10-17	0.1	1.2	3.6	95.1	97.2	0.1	97.6	759	2
Stockpile #3										
Lab #0199	02-27-17	0.0	0.4	1.6	98.0	96.5	0.1	99.1	765	2
Lab #0501	04-17-17	0.0	0.3	1.5	98.2	96.8	0.1	99.2	768	2
Lab #0605	05-10-17	0.0	0.3	1.2	98.5	97.4	0.1	99.3	774	2
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Stockpile #2										
Lab #0087	02-10-17	1.1	36.1	15.8	47.0	80.3	0.1	65.5	421	1
Lab #0226	03-02-17	0.9	35.9	16.2	47.0	79.8	0.1	65.7	419	1
Lab #0348	03-24-17	0.9	36.9	14.4	47.8	75.4	0.1	65.7	396	1
Lab #0723	05-22-17	1.9	32.4	12.0	53.7	76.4	0.1	69.0	422	1
Stockpile #3										
Lab #0722	05-22-17	2.2	35.4	13.2	49.2	95.0	0.2	66.0	501	3
Stockpile #4										
Lab #0086	02-10-17	0.1	1.7	11.7	86.5	91.8	0.5	93.9	690	9
Lab #0225	03-02-17	0.6	2.3	10.3	86.8	83.0	0.7	93.6	621	13
Lab #0721	05-22-17	0.1	1.8	12.5	85.6	90.5	0.4	93.6	677	7
CENTRAL STONE COMPANY-ANTONIA, HANNIBAL, MO										
CENTRAL STONE COMPANY - BETHEL, SHELBYVILLE, MO										
CENTRAL STONE COMPANY - FARMINGTON, FARMINGTON, MO										
Stockpile #1										
Lab #0184	03-01-17	1.3	44.9	10.2	43.6	95.5	11.4	60.9	466	139
Lab #0412	04-06-17	3.0	48.9	10.1	38.0	95.4	11.3	56.3	430	127
Lab #0760	05-31-17	1.1	48.0	10.3	40.6	94.2	11.2	58.8	443	132
Stockpile #3										
Lab #0182	03-01-17	0.0	0.1	1.6	98.3	85.7	2.5	99.3	681	50
Lab #0413	04-06-17	0.0	0.2	1.1	98.7	87.6	2.9	99.4	697	58
Lab #0748	05-31-17	0.1	0.4	1.9	97.6	91.1	3.4	98.8	720	67

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CENTRAL STONE CO - FORT BELLE - #31, FLORISSANT, MO										
Stockpile #2										
Lab #0234	02-21-17	0.2	0.7	1.6	97.5	89.7	3.5	98.6	708	69
Lab #0400	04-06-17	0.0	0.3	1.6	98.1	89.5	3.6	99.1	710	71
Lab #0549	05-01-17	0.1	0.4	1.8	97.7	90.1	3.8	98.9	713	75
Lab #0804	06-06-17	0.0	0.2	0.1	99.7	92.2	2.9	99.8	736	58
CENTRAL STONE COMPANY - NEWARK, HANNIBAL, MO										
Stockpile #3										
Lab #0082	02-07-17	2.0	40.5	11.6	45.9	91.7	0.7	63.0	462	9
Lab #0222	02-27-17	3.4	41.7	10.0	44.9	90.9	1.4	61.3	446	17
Lab #0329	03-20-17	2.0	42.1	9.1	46.8	89.9	1.4	62.8	452	18
Lab #0472	04-17-17	1.9	41.0	11.5	45.6	91.4	0.8	62.8	459	10
Lab #0641	05-10-17	2.4	40.3	9.4	47.9	88.6	1.9	63.6	451	24
CENTRAL STONE COMPANY - PARIS, PARIS, MO										
Stockpile #2										
Lab #0089	02-13-17	7.9	45.5	11.4	35.2	89.8	0.4	53.4	384	4
Lab #0236	03-01-17	7.9	46.4	11.0	34.7	88.9	0.4	52.9	376	4
Lab #0725	05-23-17	1.3	42.6	13.1	43.0	88.7	0.6	61.5	436	7
CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO										
Stockpile #2										
Lab #0084	02-08-17	4.7	44.2	10.1	41.0	83.5	1.9	58.1	388	22
Lab #0283	03-10-17	5.2	42.3	13.2	39.3	87.2	1.3	57.8	403	15
Lab #0359	03-27-17	5.6	48.3	9.8	36.3	87.3	1.1	54.3	379	12
Lab #0511	04-25-17	6.2	42.4	10.0	41.4	85.5	1.5	58.0	397	17
Lab #0726	05-24-17	4.7	40.8	10.3	44.2	86.5	1.4	60.6	419	17
CENTRAL STONE COMPANY - PERRY, HANNIBAL, MO										
CENTRAL STONE COMPANY - EWING, HANNIBAL, MO										
Stockpile #1										
Lab #0081	02-07-17	2.7	41.2	11.9	44.2	84.5	0.2	61.6	417	2
Lab #0221	02-27-17	2.9	43.1	13.7	40.3	85.1	0.2	59.3	404	2
Lab #0330	03-20-17	3.5	43.1	11.2	42.2	82.9	0.2	59.7	396	2
Lab #0471	04-17-17	2.8	43.5	11.4	42.3	82.2	0.3	60.0	395	4
Lab #0640	05-10-17	2.3	38.6	11.0	48.1	80.4	0.3	64.4	414	4
CENTRAL STONE COMPANY - TAYLOR, TAYLOR, MO										
CLEVER STONE CO, CLEVER, MO										
Stockpile #1										
Lab #0070	02-09-17	4.1	51.9	12.2	31.8	92.6	0.1	52.1	386	1
Lab #0316	03-13-17	3.3	51.6	12.1	33.0	92.0	0.1	53.2	391	1
Lab #0503	04-18-17	0.1	53.9	13.3	32.7	91.5	0.1	54.2	396	1
Lab #0701	05-25-17	0.6	54.8	12.5	32.1	92.5	0.1	53.3	394	1
CON-AGG OF MO, LLC - BOONE QUARRIES, BOONVILLE, MO										
Stockpile #1										
Lab #0094	02-13-17	5.5	51.5	11.8	31.2	93.7	0.2	51.2	383	2
Lab #0245	03-07-17	6.4	51.1	12.3	30.2	93.6	0.2	50.4	377	2
Lab #0441	04-04-17	6.0	49.1	12.8	32.1	94.3	0.2	52.1	393	2
Lab #0592	05-02-17	5.8	48.9	12.4	32.9	95.0	0.3	52.6	399	3
Lab #0769	06-02-17	3.1	43.4	38.4	15.1	95.2	0.3	49.0	373	3
CON-AGG OF MO, LLC-BOONE QUARRIES, COLUMBIA, MO										
CON-AGG OF MO, LLC-BOONE QUARRIES, COLUMBIA, MO										
Stockpile #1										
Lab #0732	05-30-17	12.6*	25.8	9.8	51.8	89.2	6.2	64.1	0	0
CON-AGG OF MO LLC-BOONE QUARRIES, MARSHALL, MO										
Stockpile #5										
Lab #0062	02-10-17	1.9	51.0	11.4	35.7	81.7	0.7	55.3	361	8
Lab #0214	03-02-17	4.2	49.2	10.2	36.4	87.6	3.1	54.8	384	34
Lab #0443	04-05-17	8.9	51.4	8.5	31.2	88.7	4.2	49.2	349	41
Lab #0597	05-04-17	8.2	50.9	8.8	32.1	87.7	2.6	50.1	352	26
Lab #0820	06-08-17	6.1	47.1	8.4	38.4	82.6	3.5	55.2	365	39
CON-AGG OF MO, LLC-BOONE QUARRIES, COLUMBIA, MO										
Stockpile #2										
Lab #0104	02-16-17	2.6	52.2	9.9	35.3	90.7	4.5	54.3	394	49
Lab #0292	03-16-17	6.6	54.0	8.9	30.5	90.3	4.9	49.3	356	48
Lab #0478	04-17-17	4.7	53.0	9.7	32.6	89.3	5.4	51.7	369	56

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JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CON-AGG OF MO, LLC-BOONE QUARRIES, COLUMBIA, MO (Continued)										
Stockpile #2										
Lab #0649	05-19-17	4.9	50.0	9.7	35.4	88.0	5.7	53.7	378	61
Lab #0825	06-09-17	3.5	47.7	9.1	39.7	86.3	6.3	57.1	394	72
Stockpile #4										
Lab #0103	02-16-17	4.0	49.3	11.5	35.2	97.7	1.3	54.4	425	14
Lab #0291	03-16-17	4.4	49.1	10.9	35.6	96.6	1.3	54.4	421	14
Lab #0477	04-17-17	4.7	48.5	11.5	35.3	97.6	1.4	54.3	424	15
Lab #0648	05-19-17	5.3	47.6	10.9	36.2	97.1	1.4	54.6	424	15
Lab #0824	06-09-17	5.3	47.0	10.9	36.8	97.0	1.3	55.1	427	14
CON-AGG OF MO, LLC-NORRIS QUARRIES, AMAZONIA, MO										
CON-AGG OF MO, LLC-NORRIS QUARRIES, BARNARD, MO										
Stockpile #2										
Lab #0107	02-13-17	3.7	45.4	9.3	41.6	79.6	1.5	58.5	373	18
Lab #0310	03-13-17	3.4	46.8	11.1	38.7	78.6	1.4	57.1	359	16
Lab #0545	04-21-17	2.7	48.9	9.8	38.6	82.3	2.0	56.7	373	23
Lab #0720	05-26-17	2.9	46.4	12.0	38.7	81.2	1.7	57.5	374	20
Lab #0781	06-07-17	2.8	47.0	9.7	40.5	80.2	1.5	58.1	373	17
CON-AGG OF MO, LLC-NORRIS QUARRIES, BETHANY, MO										
Stockpile #1										
Lab #0040	02-06-17	4.4	49.7	9.8	36.1	68.8	1.6	54.4	299	17
Lab #0340	03-22-17	6.8	45.3	10.1	37.8	74.5	1.5	55.2	329	17
Lab #0454	04-10-17	5.3	54.3	8.6	31.8	77.7	1.3	50.5	314	13
Lab #0623	05-11-17	4.3	53.3	9.2	33.2	71.1	1.5	52.0	296	16
Lab #0756	05-31-17	5.1	51.0	9.3	34.6	72.5	1.6	52.9	307	17
CON-AGG OF MO, LLC-NORRIS QUARRIES, SAVANNAH, MO										
Stockpile #1										
Lab #0152	02-23-17	4.4	59.1	8.8	27.7	85.7	1.3	47.8	327	12
Lab #0426	03-22-17	4.2	54.4	9.3	32.1	87.2	1.1	51.3	358	11
Lab #0561	05-03-17	1.4	50.8	9.6	38.2	78.4	1.8	56.7	355	20
Lab #0707	05-26-17	1.0	45.8	11.5	41.7	83.2	1.5	60.1	400	18
Lab #0789	06-08-17	0.9	41.0	12.5	45.6	83.1	1.5	63.4	421	19
CON-AGG OF MO, LLC-NORRIS QUARRIES, DAWN, MO										
Stockpile #2										
Lab #0052	02-10-17	5.1	51.7	11.0	32.2	82.0	0.7	51.7	339	7
Lab #0279	03-10-17	6.4	50.4	9.6	33.6	78.7	0.9	52.0	327	9
Lab #0459	04-14-17	4.1	50.6	10.0	35.3	79.8	1.1	54.0	344	12
Lab #0669	05-19-17	3.9	49.3	8.9	37.9	78.5	1.2	55.6	349	13
Lab #0759	06-02-17	2.9	45.4	9.7	42.0	77.1	1.1	59.2	365	13
CON-AGG OF MO, LLC-NORRIS QUARRIES, CAMERON, MO										
Stockpile #1										
Lab #0116	02-16-17	1.1	43.7	12.1	43.1	71.5	1.9	61.3	351	23
Lab #0311	03-14-17	1.5	47.8	11.7	39.0	70.8	1.9	58.0	328	22
Lab #0563	05-04-17	0.3	43.6	12.9	43.2	67.0	2.1	61.8	331	26
Lab #0712	05-18-17	2.8	37.4	10.8	49.0	75.0	1.7	64.8	389	22
Lab #0787	06-08-17	1.0	46.0	11.0	42.0	68.4	2.3	60.1	329	28
CON-AGG OF MO, LLC-NORRIS QUARRIES, GALLATIN, MO										
Stockpile #1										
Lab #0027	02-03-17	7.9	44.3	7.1	40.7	67.1	1.1	56.0	301	12
Lab #0276	03-08-17	6.8	51.0	10.9	31.3	73.7	1.1	50.6	298	11
Lab #0488	04-20-17	6.1	43.8	8.5	41.6	67.4	1.1	57.7	311	13
Lab #0576	05-03-17	7.6	46.2	8.8	37.4	70.3	1.1	54.2	305	12
Lab #0689	05-24-17	6.3	48.6	8.7	36.4	71.9	1.2	53.8	309	13
CON-AGG OF MO, LLC-NORRIS QUARRIES, RAVENWOOD, MO										
Stockpile #2										
Lab #0075	02-06-17	2.2	47.8	9.9	40.1	80.6	1.8	58.0	374	21
Lab #0288	03-13-17	0.7	47.8	12.6	38.9	78.3	2.2	58.4	366	26
Lab #0547	04-27-17	1.7	42.7	11.4	44.2	75.7	2.1	61.7	374	26
Lab #0717	05-25-17	0.5	40.4	11.4	47.7	76.2	2.1	64.6	394	27
Lab #0778	06-06-17	0.5	42.1	9.8	47.6	75.0	2.5	64.0	384	32
CON-AGG OF MO, LLC-NORRIS QUARRIES, GOWER, MO										
Stockpile #1										
Lab #0151	02-21-17	4.8	47.6	9.4	38.2	80.2	1.1	55.7	358	12
Lab #0425	03-20-17	5.7	48.4	8.9	37.0	81.3	1.0	54.4	354	11
Lab #0566	05-04-17	6.3	46.6	8.8	38.3	81.4	0.9	55.2	360	10
Lab #0774	05-31-17	5.5	45.7	10.2	38.6	82.3	0.9	56.1	370	10
Lab #0793	06-09-17	5.0	45.7	8.9	40.4	81.7	0.9	57.2	374	10

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JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CON-AGG OF MO, LLC-NORRIS QUARRIES, HUNTSVILLE, MO										
Stockpile #2										
Lab #0053	02-13-17	4.9	50.4	12.7	32.0	94.1	1.8	52.2	393	19
Lab #0195	03-02-17	5.5	48.7	12.2	33.6	96.0	1.8	53.1	408	19
Lab #0423	04-04-17	3.7	49.5	13.5	33.3	96.1	1.4	53.8	413	15
Lab #0573	05-01-17	5.3	49.2	11.7	33.8	91.4	1.4	53.1	388	15
CON-AGG OF MO, LLC-NORRIS QUARRIES, SAVANNAH, MO										
CON-AGG of MO, LLC-NORRIS QUARRIES, KINGSTON, MO										
Stockpile #1										
Lab #0051	02-10-17	1.1	40.4	12.1	46.4	84.9	1.2	63.8	433	15
Lab #0194	03-01-17	3.6	34.7	12.8	48.9	80.4	2.0	65.3	420	26
Lab #0342	03-23-17	1.8	43.8	11.2	43.2	85.6	0.7	60.9	417	9
Lab #0519	04-25-17	2.2	42.6	11.4	43.8	85.4	0.7	61.3	419	9
Lab #0618	05-09-17	0.4	36.2	11.8	51.6	84.2	1.5	67.7	456	20
Lab #0757	06-01-17	0.9	37.0	11.7	50.4	84.8	1.9	66.7	452	25
CON-AGG of MO, LLC-NORRIS QUARRY, LATHROP, MO										
Stockpile #1										
Lab #0148	02-16-17	7.2	48.3	9.7	34.8	79.8	1.4	52.7	336	15
Lab #0313	03-16-17	7.7	52.1	9.4	30.8	78.8	1.2	49.5	312	12
Lab #0564	05-04-17	6.5	51.9	9.6	32.0	83.4	1.0	50.7	339	10
Lab #0772	05-31-17	6.2	50.7	9.7	33.4	81.1	1.4	51.9	337	15
Lab #0791	06-09-17	6.4	45.1	9.0	39.5	79.1	1.3	56.2	355	15
Stockpile #2										
Lab #0149	02-16-17	0.2	48.2	12.1	39.5	86.2	0.9	58.8	406	11
Lab #0314	03-16-17	0.2	49.4	16.0	34.4	87.2	1.0	56.4	393	11
Lab #0565	05-04-17	0.5	52.0	15.2	32.3	87.3	1.0	54.4	380	11
Lab #0773	05-31-17	1.0	49.0	13.1	36.9	85.7	1.0	57.0	391	11
Lab #0792	06-09-17	0.4	48.2	16.0	35.4	87.8	1.0	57.1	401	11
CON-AGG OF MO, LLC-NORRIS QUARRIES, MAITLAND, MO										
Stockpile #1										
Lab #0115	02-13-17	3.5	51.6	11.5	33.4	86.6	0.6	53.2	369	6
Lab #0309	03-13-17	4.1	48.5	10.2	37.2	84.8	0.9	55.4	376	10
Lab #0544	04-12-17	3.0	45.1	10.8	41.1	83.5	0.6	58.9	393	7
Lab #0719	05-25-17	2.2	48.2	11.0	38.6	85.0	0.9	57.3	389	10
Lab #0780	06-07-17	3.1	49.1	9.7	38.1	86.0	0.9	56.2	387	10
CON-AGG OF MO, LLC-NORRIS QUARRIES, PRINCETON, MO										
Stockpile #5										
Lab #0026	02-02-17	3.6	46.0	10.3	40.1	85.1	1.1	57.8	393	13
Lab #0275	03-06-17	2.6	46.1	10.7	40.6	84.4	1.0	58.5	395	12
Lab #0458	04-13-17	3.0	45.3	10.0	41.7	85.2	1.1	59.0	402	13
Lab #0620	05-10-17	2.6	42.8	10.5	44.1	85.0	1.1	61.1	415	13
Lab #0809	06-05-17	2.0	36.2	12.0	49.8	80.0	1.2	66.1	423	16
Stockpile #6										
Lab #0810	06-05-17	5.2	49.9	9.9	35.0	84.4	1.3	53.4	361	14
Lab #0812	06-06-17	4.9	50.1	9.4	35.6	81.0	1.6	53.8	348	17
Lab #0814	06-08-17	5.5	50.6	10.1	33.8	81.5	1.5	52.5	342	16
CON-AGG of MO, LLC-NORRIS QUARRIES, RICHMOND, MO										
Stockpile #4										
Lab #0162	02-23-17	2.4	45.7	11.7	40.2	69.3	1.1	58.6	325	13
Lab #0369	03-28-17	3.9	49.8	10.3	36.0	72.7	1.1	54.6	318	12
Lab #0534	04-27-17	5.4	49.7	10.0	34.9	76.1	1.1	53.3	325	12
Lab #0733	05-24-17	6.7	50.4	9.5	33.4	78.6	1.1	51.7	325	11
CON-AGG OF MO, LLC-NORRIS QUARRIES, STANBERRY, MO										
Stockpile #1										
Lab #0713	05-22-17	2.1	52.3	9.9	35.7	79.8	1.7	54.7	349	19
Lab #0716	05-25-17	0.7	40.3	10.4	48.6	70.4	2.1	64.9	366	27
Lab #0771	05-30-17	3.0	53.5	9.8	33.7	80.8	1.7	53.0	342	18
Lab #0782	06-07-17	1.1	43.1	10.1	45.7	71.2	2.2	62.5	356	28
CON-AGG OF MO, LLC-NORRIS QUARRIES, TRENTON, MO										
Stockpile #2										
Lab #0044	02-07-17	3.7	47.9	9.9	38.5	81.9	1.2	56.4	370	14
Lab #0196	03-03-17	4.5	49.8	10.6	35.1	87.2	1.0	53.9	376	11
Lab #0486	04-18-17	4.9	49.8	9.8	35.5	87.8	1.0	53.8	378	11
Lab #0625	05-12-17	3.9	48.5	10.1	37.5	88.4	0.9	55.7	394	10
Lab #0758	06-02-17	4.4	50.9	9.8	34.9	87.4	0.9	53.5	374	10
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Stockpile #1										
Lab #0017	02-02-17	0.2	9.4	14.2	76.2	97.6	0.2	87.1	680	3
Lab #0019	02-03-17	0.2	17.3	15.6	66.9	96.7	0.3	80.6	623	5
Lab #0037	02-06-17	0.2	13.7	14.8	71.3	97.4	0.3	83.6	651	5

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AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CONCO QUARRIES INC Q US 160, WILLARD, MO (Continued)										
Stockpile #1										
Lab #0201	02-28-17	0.0	4.6	11.5	83.9	97.6	0.7	92.0	718	13
Lab #0602	05-08-17	0.0	9.8	14.2	76.0	95.9	0.6	87.0	667	10
COUNTY LINE QUARRY, WELLSVILLE, MO										
Stockpile #1										
Lab #0085	02-09-17	4.5	43.6	8.0	43.9	90.4	5.1	59.6	431	61
Lab #0282	03-08-17	4.2	44.3	10.5	41.0	88.0	4.8	58.4	411	56
Lab #0360	03-28-17	4.3	44.1	8.1	43.5	89.9	5.2	59.4	427	62
Lab #0749	05-31-17	4.6	43.5	8.4	43.5	91.5	5.7	59.4	435	68
COUNTY LINE STONE, CASSVILLE, MO										
CRAWFORD LIME & MATERIAL CO, CUBA, MO										
Stockpile #2										
Lab #0140	02-22-17	0.8	36.9	10.4	51.9	85.8	10.4	67.4	462	140
Lab #0629	05-10-17	0.6	36.6	10.0	52.8	84.9	9.9	68.0	462	135
Lab #0764	06-01-17	1.9	34.5	9.7	53.9	86.9	10.3	68.3	475	141
CRIDER BROTHERS LIME CO., INC., EMINENCE, MO										
Stockpile #1										
Lab #0132	02-14-17	8.6	44.1	12.3	35.0	95.1	10.8	53.4	406	115
Lab #0419	04-03-17	8.3	45.0	12.9	33.8	94.5	10.5	52.8	399	111
Lab #0785	06-07-17	1.5	41.6	15.9	41.0	104.1	12.1	60.9	508	147
D & D SUPPLY LLC, LONE JACK, MO										
DOSS & HARPER STONE CO., HOUSTON, MO										
DOSS & HARPER STONE CO, WEST PLAINS, MO										
Stockpile #1										
Lab #0465	04-12-17	1.1	60.1	7.7	31.1	86.5	10.4	50.7	351	106
Lab #0466	04-13-17	1.4	58.2	8.0	32.4	86.8	10.4	51.8	359	108
DOUBLE EAGLE AGGREGATES, MILLER, MO										
DOUBLE EAGLE AGGREGATES CO., INC, MILLER, MO										
Stockpile #1										
Lab #0036	02-06-17	0.8	53.5	9.8	35.9	88.9	10.4	55.2	392	115
Lab #0268	03-08-17	0.4	47.8	10.6	41.2	91.3	10.4	59.5	435	124
Lab #0447	04-06-17	0.2	29.3	19.8	50.7	48.3*	5.5	69.9	0	0
E & S ROCK, LLC, HOLDEN, MO										
Stockpile #1										
Lab #0138	02-21-17	1.3	48.0	13.2	37.5	81.4	2.9	57.4	374	33
Lab #0367	03-27-17	3.4	54.7	11.9	30.0	82.9	2.1	50.8	337	21
Lab #0538	04-28-17	4.1	54.1	11.9	29.9	83.2	2.6	50.6	337	26
Lab #0816	06-05-17	3.7	55.7	11.0	29.6	85.4	1.9	50.1	342	19
Stockpile #2										
Lab #0139	02-21-17	3.1	49.6	10.9	36.4	78.3	1.7	55.3	347	19
Lab #0368	03-27-17	4.6	51.4	9.1	34.9	79.7	1.7	53.2	339	18
Lab #0539	04-28-17	3.9	51.4	10.3	34.4	79.3	1.7	53.4	339	18
Lab #0817	06-05-17	4.7	49.1	9.9	36.3	77.6	1.7	54.5	338	19
Stockpile #3										
Lab #0137	02-21-17	1.6	41.7	12.2	44.5	71.0	2.7	62.2	354	34
Lab #0366	03-27-17	1.4	43.4	12.8	42.4	71.9	2.2	60.9	350	27
FISCHER QUARRY & HAULING, LLC, ST. MARY, MO										
Stockpile #1										
Lab #0260	03-07-17	3.5	53.2	13.0	30.3	98.3	0.1	51.4	404	1
Lab #0530	04-27-17	4.6	53.8	11.4	30.2	97.4	0.2	50.5	393	2
Lab #0654	05-18-17	4.1	50.7	12.6	32.6	98.6	0.1	52.8	417	1
GABEL STONE COMPANY, INC, WILLOW SPRINGS, MO										
HEARTLAND MATERIALS LLC, JACKSON, MO										
Stockpile #1										
Lab #0063	02-08-17	0.4	37.0	16.6	46.0	97.0	1.6	65.2	506	21
Lab #0054	02-10-17	0.6	37.2	17.3	44.9	96.8	1.6	64.6	500	21
Lab #0238	02-28-17	0.4	38.7	16.1	44.8	98.5	1.7	64.1	505	22
Lab #0391	03-29-17	0.2	39.8	17.2	42.8	98.7	1.6	63.1	498	20
HIGGINS QUARRY, LLC, LOOSE CREEK, MO										
Stockpile #2										
Lab #0057	02-10-17	0.3	36.1	11.1	52.5	88.4	10.3	68.2	482	140
Lab #0209	03-03-17	2.8	52.4	8.7	36.1	90.6	10.9	54.4	394	119
Lab #0585	05-03-17	4.1	41.7	8.8	45.4	87.3	10.4	61.1	427	127
Stockpile #4										
Lab #0058	02-10-17	8.2	13.9	7.2	70.7	87.7	10.5	78.5	551	165
Lab #0210	03-03-17	12.1*	20.5	5.7	61.7	90.1	10.8	70.2	0	0
Lab #0251	03-06-17	11.4*	22.8	6.7	59.1	90.4	11.0	68.8	0	0

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Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
HIGGINS MATERIALS, LLC, OTTERVILLE, MO										
Stockpile #2										
Lab #0144	02-22-17	1.5	46.9	11.2	40.4	81.1	0.4	58.8	382	5
Lab #0372	03-29-17	0.5	42.1	13.0	44.4	73.8	0.3	62.7	370	4
Lab #0533	04-24-17	0.4	50.4	11.5	37.7	87.8	1.5	57.2	402	17
Lab #0647	05-19-17	0.5	54.5	10.7	34.3	89.0	1.7	54.3	387	18
Lab #0823	06-09-17	2.8	47.9	10.7	38.6	84.7	1.6	57.0	386	18
HOSTETLER QUARRY, LLC, BUFFALO, MO										
Stockpile #1										
Lab #0170	02-21-17	6.0	47.8	7.9	38.3	84.8	10.3	55.0	373	113
Lab #0386	03-30-17	0.6	42.2	9.6	47.6	85.0	10.1	63.9	435	129
Lab #0541	04-27-17	1.1	43.4	8.2	47.3	88.9	10.6	63.1	449	134
Lab #0692	05-23-17	0.9	44.2	8.6	46.3	87.2	10.5	62.5	436	131
HOUSE SPRINGS QUARRY, HOUSE SPRINGS, MO										
HUNTER STONE CO, ELLSINORE, MO										
Stockpile #1										
Lab #0133	02-14-17	0.2	42.9	15.0	41.9	97.1	11.6	61.6	479	143
Lab #0786	06-07-17	0.2	36.8	13.0	50.0	100.9	12.2	67.0	541	163
HUTCHENS CONSTRUCTION-PURDY, CASSVILLE, MO										
Stockpile #1										
Lab #0125	02-17-17	2.8	49.3	13.5	34.4	96.4	0.3	54.8	423	3
Lab #0351	03-24-17	3.5	50.0	13.0	33.5	96.3	0.3	53.8	414	3
Lab #0703	05-26-17	2.3	49.9	13.7	34.1	96.9	0.3	54.8	425	3
HUTCHENS CONSTRUCTION-EAGLE ROCK, CASSVILLE, MO										
Stockpile #2										
Lab #0071	02-10-17	2.4	41.9	10.7	45.0	88.3	10.3	61.9	437	128
Lab #0319	03-17-17	2.0	41.8	11.1	45.1	89.1	10.5	62.2	443	131
Lab #0801	06-09-17	2.3	40.3	10.1	47.3	89.1	10.2	63.4	452	129
HUTCHENS CONSTRUCTION CO-SHELL KNOB, CASSVILLE, MO										
Stockpile #1										
Lab #0072	02-10-17	5.7	55.1	8.4	30.8	94.1	11.0	49.6	374	109
Lab #0320	03-17-17	7.3	50.8	8.8	33.1	91.3	10.9	51.1	373	111
Lab #0802	06-09-17	2.4	44.4	9.4	43.8	88.6	10.3	60.5	429	125
HUTCHENS CONSTRUCTION-WASHBURN, CASSVILLE, MO										
IDEKER INC, EXCELSIOR SPRINGS, MO										
Stockpile #1										
Lab #0074	02-03-17	0.7	51.7	11.9	35.7	91.2	0.4	55.8	407	4
Lab #0312	03-14-17	0.9	51.3	11.3	36.5	90.5	0.5	56.1	406	6
Lab #0460	04-11-17	0.9	51.0	10.3	37.8	90.6	0.6	56.7	411	7
Lab #0711	05-18-17	0.3	49.3	12.2	38.2	90.7	0.4	57.8	420	5
Lab #0790	06-09-17	0.1	41.4	14.8	43.7	89.8	0.5	62.9	452	6
ILC RESOURCES, URBANDALE, IA										
JASPER STONE LLC, JASPER, MO										
Stockpile #1										
Lab #0129	02-15-17	3.8	40.8	14.3	41.1	97.0	0.2	59.9	465	2
Lab #0505	04-19-17	5.1	38.2	14.7	42.0	96.9	0.2	60.4	468	2
Lab #0671	05-16-17	3.2	40.9	13.3	42.6	97.4	0.2	60.8	474	2
Lab #0797	06-07-17	7.4	37.5	14.7	40.4	97.3	0.1	58.6	456	1
Stockpile #2										
Lab #0128	02-15-17	0.2	1.7	7.6	90.5	98.1	0.2	95.5	749	4
Lab #0504	04-19-17	1.5	20.3	13.8	64.4	96.7	0.1	77.8	602	2
Lab #0670	05-16-17	0.2	3.0	6.6	90.2	97.3	0.1	94.9	739	2
Lab #0796	06-07-17	3.3	3.4	7.1	86.2	97.6	0.2	91.3	713	4
Lab #0800	06-08-17	2.2	5.6	9.2	83.0	97.0	0.1	89.9	698	2
JEFFERSON COUNTY PUBLIC WATER SUP, HIGH RIDGE, MO										
Stockpile #1										
Lab #0186	03-01-17	0.3	2.8	1.4	95.5	86.6	3.2	97.0	672	62
Lab #0396	03-29-17	8.4	3.6	1.6	86.4	84.7	2.9	88.3	598	51
Lab #0531	04-27-17	0.0	0.5	0.3	99.2	85.7	3.0	99.5	682	60
Stockpile #2 (FLUID LIMING MATERIAL)										
Lab #0187	03-01-17	0.0	0.0	0.0	100.0	13.4	0.2	100.0	107	4
Lab #0397	03-29-17	0.0	0.0	0.0	100.0	6.0	0.2	100.0	48	4
Lab #0532	04-27-17	0.0	0.0	0.0	100.0	6.8	0.2	100.0	54	4
JENKINS QUARRY, CASSVILLE, MO										
Stockpile #3										
Lab #0167	02-24-17	5.7	46.4	8.3	39.6	88.2	10.3	56.2	396	116
Lab #0508	04-20-17	5.1	38.6	8.4	47.9	88.7	10.2	62.6	444	128

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		+8	-8+40	-40+60	-60				ENM	EMg
JOPLIN STONE CO Q DUENWEG, JOPLIN, MO										
Stockpile #2										
Lab #0038	02-07-17	0.4	26.7	19.4	53.5	94.0	0.1	71.8	540	1
Lab #0267	03-07-17	3.7	37.0	16.6	42.7	93.3	0.1	61.9	462	1
Lab #0451	04-04-17	7.3	43.9	11.9	36.9	92.2	0.1	55.0	406	1
Lab #0582	05-04-17	0.1	30.8	16.6	52.5	84.1	0.2	70.2	472	3
LEO JOURNAGAN CONSTRUCTION CO, INC, SPRINGFIELD, MO										
Stockpile #1										
Lab #0069	02-09-17	4.2	50.0	12.7	33.1	96.1	0.3	53.2	409	3
Lab #0315	03-13-17	3.4	50.4	13.4	32.8	95.9	0.2	53.4	410	2
Lab #0502	04-18-17	2.8	49.5	12.8	34.9	96.5	0.3	55.0	424	3
Lab #0702	05-25-17	3.5	50.0	13.1	33.4	97.0	0.2	53.8	417	2
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Stockpile #2										
Lab #0083	02-07-17	1.0	21.3	10.7	67.0	89.3	1.9	78.7	563	30
Lab #0473	04-17-17	0.0	0.6	0.8	98.6	84.3	0.9	99.2	669	18
KERFORD LIMESTONE CO, WEEPING WATER, NE										
Stockpile #1										
Lab #0073	02-02-17	0.0	0.0	0.0	100.0	92.2	1.0	100.0	738	20
Lab #0715	05-24-17	0.0	0.3	0.1	99.6	89.1	0.9	99.7	711	18
KING QUARRY, THAYER, MO										
Stockpile #1										
Lab #0331	03-20-17	0.0	53.6	10.6	35.8	83.5	9.9	55.6	371	110
Lab #0783	06-05-17	0.2	49.7	9.8	40.3	87.9	10.5	58.6	412	123
KNOX COUNTY STONE CO, INC, EDINA, MO										
Stockpile #2										
Lab #0077	02-01-17	5.2	37.9	11.0	45.9	86.7	3.5	62.0	430	43
Lab #0220	02-23-17	5.7	44.9	11.7	37.7	88.3	2.7	55.9	395	30
Lab #0328	03-16-17	4.6	45.3	7.8	42.3	92.4	3.8	58.3	431	44
Lab #0470	04-13-17	2.3	40.0	11.4	46.3	89.6	3.5	63.1	453	44
Lab #0639	05-09-17	2.9	39.3	13.1	44.7	90.2	3.4	62.4	450	42
Lab #0807	06-08-17	6.4	44.5	10.6	38.5	88.5	2.5	56.0	396	28
L & W QUARRIES, INC - CLARKDALE #8, WEST BURLINGTON, IA										
L & W QUARRIES, INC - WALNUT CITY, WEST BURLINGTON, IA										
Stockpile #2										
Lab #0665	05-15-17	16.0*	50.8	8.6	24.6	92.5	0.4	42.5	0	0
Lab #0668	05-18-17	9.5	53.5	9.5	27.5	87.3	0.4	46.6	325	4
Lab #0691	05-25-17	14.1*	53.3	8.1	24.5	92.4	0.4	42.7	0	0
L & W QUARRIES INC., WEST BURLINGTON, IA										
Stockpile #1										
Lab #0078	02-03-17	8.5	45.4	9.6	36.5	88.6	2.3	53.6	380	25
Lab #0223	02-28-17	7.7	45.9	10.2	36.2	88.8	2.3	53.8	382	25
Lab #0513	04-18-17	26.0*	39.8	8.2	26.0	91.5	0.3	40.9	0	0
Lab #0637	05-08-17	20.7*	43.9	6.8	28.6	86.7	3.7	43.7	0	0
Stockpile #2										
Lab #0079	02-03-17	7.1	45.7	8.8	38.4	85.6	3.6	55.1	377	40
Lab #0224	02-28-17	7.3	49.2	8.3	35.2	87.5	4.0	52.5	367	42
Lab #0514	04-18-17	22.0*	38.0	7.8	32.2	88.5	1.9	46.4	0	0
Lab #0638	05-08-17	8.4	45.3	8.1	38.2	86.7	4.3	54.4	377	47
LAFARGE WEST INC.-PERRYVILLE, PERRYVILLE, MO										
Stockpile #2										
Lab #0259	03-07-17	1.3	59.4	10.9	28.4	94.1	1.8	49.8	375	18
Lab #0523	04-27-17	1.2	61.9	10.4	26.5	94.1	1.7	48.2	363	16
Lab #0655	05-18-17	1.0	62.3	10.2	26.5	94.0	1.9	48.2	362	18
LCL FARMS INC, KEOKUK, IA										
LEAD BELT MATERIALS CO., INC., PARK HILLS, MO										
Stockpile #1										
Lab #0185	03-01-17	1.7	50.8	10.1	37.4	101.9	11.7	56.2	458	131
Lab #0410	04-06-17	1.8	50.6	10.0	37.6	101.2	11.7	56.3	455	132
Lab #0762	05-31-17	7.8	59.4	8.0	24.8	101.4	11.8	44.5	361	105
LILE QUARRY INC., STRAFFORD, MO										
Stockpile #2										
Lab #0127	02-13-17	2.6	52.8	8.4	36.2	95.2	11.3	54.4	415	123
Lab #0350	03-22-17	3.3	59.5	8.4	28.8	83.5	9.9	48.7	325	96
Lab #0579	05-01-17	1.3	56.3	8.1	34.3	86.4	10.1	53.2	368	108
Lab #0705	05-22-17	1.1	51.3	9.3	38.3	90.1	10.6	56.7	409	120
MAGRUDER LIMESTONE CO-ASHLEY, TROY, MO										
Stockpile #1										
Lab #0551	05-02-17	2.8	44.6	8.2	44.4	81.5	2.2	60.5	394	27
Lab #0806	06-07-17	3.8	49.6	9.0	37.6	83.3	2.2	55.4	369	24

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
MAGRUDER LIMESTONE CO-ASHLEY, TROY, MO (Continued)										
Stockpile #2										
Lab #0112	02-17-17	0.2	48.1	11.0	40.7	84.5	2.4	59.3	401	28
Lab #0326	03-14-17	2.0	48.3	11.4	38.3	72.4	1.9	57.2	331	22
Lab #0403	04-05-17	0.9	48.2	11.3	39.6	85.2	2.2	58.4	398	26
Lab #0550	05-02-17	1.2	47.5	10.7	40.6	73.3	1.7	58.9	345	20
Lab #0805	06-07-17	3.0	47.6	11.9	37.5	74.6	1.5	56.5	337	17
MAGRUDER LIMESTONE - FOLEY QUARRY, TROY, MO										
Stockpile #1										
Lab #0345	03-23-17	4.8	59.2	9.4	26.6	95.0	2.4	47.0	358	23
Lab #0468	04-10-17	5.8	58.0	8.8	27.4	94.8	2.8	47.2	358	26
Lab #0553	05-03-17	6.0	55.8	8.3	29.9	94.2	2.6	48.8	368	25
Lab #0728	05-26-17	5.3	53.8	9.3	31.6	95.2	2.7	50.6	386	27
Stockpile #2										
Lab #0110	02-16-17	30.2*	42.4	5.0	22.4	95.2	2.5	36.0	0	0
Lab #0228	03-03-17	14.2*	52.3	7.4	26.1	96.0	2.8	43.6	0	0
MAGRUDER LIMESTONE CO-FRANKFORD, TROY, MO										
Stockpile #1										
Lab #0109	02-16-17	1.6	42.6	13.1	42.7	97.3	1.9	61.2	476	23
Lab #0227	03-03-17	1.1	39.1	13.9	45.9	96.9	1.9	64.0	496	24
Lab #0344	03-23-17	0.8	42.1	12.8	44.3	98.2	2.0	62.5	491	25
Lab #0552	05-03-17	2.0	43.4	10.7	43.9	97.2	1.6	61.2	476	20
Lab #0727	05-26-17	1.8	45.8	10.8	41.6	97.0	1.4	59.5	462	17
MAGRUDER LIMESTONE CO. - SHELBY, TROY, MO										
Stockpile #1										
Lab #0080	02-06-17	0.7	47.9	12.7	38.7	89.6	1.2	58.3	418	14
Lab #0219	02-22-17	1.0	46.4	14.5	38.1	81.6	1.0	58.4	381	12
Lab #0469	04-11-17	2.1	45.0	13.8	39.1	82.0	0.9	58.6	385	11
Lab #0642	05-11-17	2.2	43.2	14.9	39.7	82.7	0.9	59.4	393	11
Lab #0808	06-09-17	1.7	42.8	14.8	40.7	84.0	0.4	60.3	405	5
MAGRUDER LIMESTONE - SILEX QUARRY, TROY, MO										
Stockpile #2										
Lab #0108	02-15-17	1.6	47.0	9.5	41.9	92.4	2.7	59.4	439	32
Lab #0280	03-07-17	4.3	48.0	9.2	38.5	89.3	2.7	56.0	400	30
Lab #0361	03-30-17	6.4	50.5	8.3	34.8	94.1	2.0	52.4	395	21
Lab #0555	05-04-17	4.8	53.8	8.3	33.1	93.8	1.9	51.5	387	20
Lab #0750	06-02-17	5.7	53.4	8.6	32.3	94.2	2.0	50.8	383	20
MAGRUDER LIMESTONE CO Q TROY, TROY, MO										
Stockpile #1										
Lab #0281	03-07-17	2.3	49.5	9.7	38.5	94.9	3.7	56.7	430	42
Lab #0362	03-30-17	4.3	47.1	9.9	38.7	96.1	2.3	56.4	434	26
Lab #0467	04-10-17	1.8	44.3	10.1	43.8	96.1	2.1	60.9	468	26
Lab #0556	05-04-17	2.3	42.9	9.5	45.3	96.7	2.1	61.7	478	26
Lab #0751	06-02-17	2.7	43.8	10.1	43.4	96.8	2.3	60.4	468	28
MANSFIELD LIME & STONE, MANSFIELD, MO										
MARTIN MARIETTA MATERIALS OF K.C., PARKVILLE, MO										
MARTIN MARIETTA MATERIALS OF K.C., KANSAS CITY, MO										
MARTIN MARIETTA MATERIALS OF K.C., RANDOLPH, MO										
Stockpile #3										
Lab #0163	02-24-17	1.4	60.9	11.4	26.3	91.7	0.5	48.4	355	5
Lab #0370	03-28-17	0.8	61.2	10.4	27.6	91.7	0.6	49.1	360	6
Lab #0535	04-27-17	0.8	57.0	10.7	31.5	90.8	0.6	52.2	379	6
Lab #0734	05-24-17	0.5	51.3	11.8	36.4	93.1	0.4	56.3	419	5
MATERIAL DEPOT AT BUTTERFIELD, CASSVILLE, MO										
Stockpile #1										
Lab #0126	02-17-17	2.4	49.1	14.1	34.4	96.4	0.2	55.1	425	2
Lab #0352	03-24-17	3.7	50.7	12.5	33.1	95.8	0.3	53.3	408	3
Lab #0704	05-26-17	2.9	50.4	14.4	32.3	96.8	0.2	53.5	415	2
MERTENS CONST CO-AUXVASSE, KINGDOM CITY, MO										
Stockpile #2										
Lab #0114	02-20-17	9.6	50.6	9.2	30.6	98.0	4.4	48.8	382	43
Lab #0285	03-13-17	5.0	53.0	10.5	31.5	96.8	6.2	51.1	395	63
Lab #0402	04-07-17	9.2	49.4	8.9	32.5	97.8	4.2	50.2	393	42
Lab #0557	05-05-17	5.7	54.5	8.5	31.3	97.3	6.2	50.0	389	62
Lab #0752	06-05-17	8.9	49.6	8.7	32.8	98.5	5.1	50.4	397	51
Stockpile #6										
Lab #0113	02-20-17	8.9	49.4	7.4	34.3	88.9	5.0	51.1	363	51
Lab #0284	03-13-17	9.1	47.9	7.8	35.2	84.9	4.3	51.9	352	45
Lab #0401	04-07-17	9.2	56.5	7.6	26.7	89.9	5.9	45.4	326	54
Lab #0558	05-05-17	14.4*	56.6	7.0	22.0	96.3	0.7	40.4	0	0

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Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
MERTENS CONST. CO-TIPTON QUARRY, KINGDOM CITY, MO										
Stockpile #1										
Lab #0002	02-01-17	5.4	53.4	6.9	34.3	76.5	6.3	51.8	317	65
Lab #0246	03-07-17	5.5	49.8	7.8	36.9	78.2	6.5	54.0	338	70
Lab #0442	04-04-17	5.6	50.2	8.4	35.8	78.4	5.8	53.4	335	62
Lab #0593	05-02-17	4.8	46.1	8.9	40.2	77.0	5.8	57.1	352	66
Lab #0770	06-02-17	4.0	49.0	7.8	39.2	78.7	5.9	56.1	353	66
MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO										
Stockpile #1										
Lab #0159	02-24-17	6.5	45.9	10.8	36.8	87.0	3.9	54.8	381	43
Lab #0266	03-10-17	8.5	47.2	10.9	33.4	90.1	3.6	51.7	373	37
Lab #0737	05-26-17	9.3	49.1	9.5	32.1	91.5	3.5	50.1	367	35
MFA INC, COLUMBIA, MO										
MID-MISSOURI LIMESTONE, INC-BIG SPR, KINGDOM CITY, MO										
Stockpile #1										
Lab #0009	02-03-17	8.3	59.6	7.7	24.4	92.5	0.2	43.9	325	2
Lab #0265	03-10-17	8.5	57.7	9.7	24.1	93.2	0.3	44.3	331	3
Lab #0416	04-07-17	9.5	58.4	7.9	24.2	93.7	0.5	43.5	326	4
Lab #0736	05-26-17	7.1	57.5	8.9	26.5	93.7	0.3	46.2	346	3
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Stockpile #1										
Lab #0160	02-24-17	6.1	47.5	12.5	33.9	92.7	0.7	53.3	395	7
Lab #0398	03-31-17	4.7	51.7	12.1	31.5	91.9	0.4	51.7	380	4
Lab #0521	04-26-17	6.1	51.7	11.7	30.5	93.9	1.0	50.4	379	10
MID-MISSOURI LIMESTONE, INC.-HOUSTO, HOUSTONIA, MO										
Stockpile #1										
Lab #0060	02-08-17	8.4	52.1	7.2	32.3	83.6	4.7	49.6	332	47
Lab #0212	03-01-17	8.2	52.7	7.2	31.9	84.2	5.0	49.4	333	49
Lab #0444	04-05-17	7.9	50.9	7.6	33.6	84.1	4.3	50.9	342	44
Lab #0595	05-04-17	6.5	52.4	7.7	33.4	84.1	4.4	51.1	344	45
Lab #0826	06-09-17	7.7	51.6	7.8	32.9	85.7	3.4	50.5	346	34
Stockpile #2										
Lab #0061	02-08-17	4.9	49.5	13.1	32.5	90.5	0.3	52.7	382	3
Lab #0213	03-01-17	6.6	48.9	11.8	32.7	92.0	0.3	52.0	383	3
Lab #0445	04-05-17	6.0	48.2	12.0	33.8	91.7	0.3	53.1	389	3
Lab #0596	05-04-17	6.0	48.4	12.1	33.5	91.7	0.4	52.9	388	4
Lab #0827	06-09-17	5.3	47.7	12.2	34.8	94.2	0.2	54.0	407	2
MID-MISSOURI LIMESTONE-RIGGS, KINGDOM CITY, MO										
Stockpile #2										
Lab #0091	02-14-17	4.7	52.3	7.4	35.6	87.5	6.0	53.1	372	64
Lab #0231	03-06-17	4.8	50.2	11.0	34.0	87.8	6.0	53.2	373	64
Lab #0363	03-31-17	5.6	54.5	8.0	31.9	89.3	7.0	50.3	360	70
Lab #0512	04-26-17	7.3	52.6	7.4	32.7	88.3	5.9	50.3	355	59
Lab #0730	05-30-17	6.7	53.9	7.2	32.2	89.5	5.7	50.0	358	57
Stockpile #3										
Lab #0090	02-14-17	6.8	43.1	10.1	40.0	92.5	2.6	56.8	421	30
Lab #0230	03-06-17	7.6	43.7	10.6	38.1	93.9	2.4	55.4	416	27
MIDWEST MINERALS, INC - FORT SCOTT, PITTSBURG, KS										
Stockpile #1										
Lab #0065	02-07-17	1.2	48.0	12.1	38.7	85.9	0.3	58.0	398	3
Lab #0431	04-03-17	2.4	46.5	13.8	37.3	86.3	0.3	57.2	395	3
Lab #0571	05-04-17	0.7	50.2	11.6	37.5	86.2	0.3	57.0	393	3
MIDWEST MINERALS INC - JASPER, PITTSBURG, KS										
Stockpile #1										
Lab #0123	02-15-17	2.6	33.6	15.1	48.7	95.2	0.2	66.2	504	3
Lab #0507	04-19-17	1.9	31.4	16.1	50.6	97.0	0.1	68.1	529	1
Lab #0673	05-16-17	2.9	34.2	15.2	47.7	96.8	0.1	65.4	506	1
Lab #0799	06-07-17	2.4	33.7	15.0	48.9	97.0	0.1	66.3	515	1
MISSISSIPPI LIME COMPANY, STE GENEVIEVE, MO										
Stockpile #1										
Lab #0257	03-07-17	0.1	0.3	0.5	99.1	98.2	0.2	99.5	781	4
Lab #0528	04-27-17	0.1	2.4	1.2	96.3	98.2	0.2	97.6	767	4
Lab #0656	05-18-17	0.0	0.7	0.8	98.5	98.7	0.2	99.2	783	4
Stockpile #3										
Lab #0258	03-07-17	0.1	42.3	27.8	29.8	97.9	0.2	57.1	447	2
Lab #0529	04-27-17	0.0	45.3	27.2	27.5	98.0	0.2	55.1	432	2
Lab #0657	05-18-17	0.0	42.4	28.7	28.9	98.6	0.2	56.7	447	2

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		+8	-8+40	-40+60	-60				ENM	EMg
MK MINERALS INC., WATHENA, KS										
Stockpile #1										
Lab #0150	02-17-17	0.5	0.4	0.9	98.2	85.9	0.8	98.8	679	16
Lab #0427	03-22-17	0.2	0.7	1.2	97.9	83.3	0.6	98.8	658	12
Lab #0562	05-03-17	0.1	1.0	2.5	96.4	85.8	0.6	98.2	674	12
Lab #0708	05-26-17	0.0	0.6	1.2	98.2	87.2	0.5	99.1	691	10
Lab #0788	06-08-17	0.0	0.4	0.9	98.7	86.9	0.6	99.3	691	12
MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA										
MOUNTAIN GROVE QUARRY, MANSFIELD, MO										
Stockpile #1										
Lab #0124	02-16-17	0.3	47.3	11.2	41.2	90.4	10.7	59.7	432	128
Lab #0384	03-30-17	4.7	47.5	7.6	40.2	90.5	10.6	56.6	410	120
Lab #0581	05-02-17	3.0	45.3	7.8	43.9	89.4	10.5	59.9	428	126
MULBERRY LIMESTONE QUARRY CO.-JASPER, MULBERRY, KS										
Stockpile #1										
Lab #0130	02-15-17	0.2	42.1	15.5	42.2	94.2	0.3	62.0	467	4
Lab #0506	04-19-17	0.3	46.2	14.3	39.2	96.7	0.2	59.3	459	2
Lab #0672	05-16-17	0.9	47.6	13.1	38.4	96.5	0.2	58.2	449	2
Lab #0798	06-07-17	0.4	44.6	14.7	40.3	97.3	0.1	60.3	469	1
NEMO SAND & GRAVEL, QUARRY, PITTSBURG, MO										
Stockpile #1										
Lab #0068	02-08-17	0.9	22.2	15.0	61.9	41.7*	4.8	76.5	0	0
Lab #0190	03-01-17	6.0	41.9	9.1	43.0	86.4	10.3	58.9	407	121
Lab #0496	04-19-17	0.4	39.1	9.8	50.7	83.0	9.9	66.4	441	131
Lab #0698	05-25-17	4.4	39.8	8.0	47.8	84.0	10.2	62.6	420	128
OAKLEY FERTILIZER, INC, NORTH LITTLE ROCK, AR										
OROS & BUSCH APPLICATION TECHNOLOGY, CARLINVILLE, IL										
OSAGE QUARRIES, INC, KINGDOM CITY, MO										
PELLETIZING COMPANY INC, GORDONSVILLE, TN										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Stockpile #3										
Lab #0131	02-13-17	10.8*	25.9	18.0	45.3	100.5	11.9	62.6	0	0
Lab #0237	03-06-17	1.7	13.8	27.7	56.8	100.6	11.6	76.9	619	178
Lab #0293	03-13-17	2.7	16.8	27.4	53.1	101.3	12.0	73.7	598	177
Lab #0295	03-15-17	1.8	14.8	26.4	57.0	101.5	12.2	76.5	622	187
Lab #0474	04-18-17	4.8	21.6	25.5	48.1	100.8	12.1	68.8	555	166
Lab #0738	05-22-17	11.0*	30.0	11.1	47.9	100.1	11.7	62.1	0	0
SCHILDBERG CONST. CO.-DECATUR, GREENFIELD, IA										
Stockpile #2										
Lab #0105	02-07-17	4.2	47.1	9.3	39.4	71.6	1.1	56.8	325	12
Lab #0289	03-06-17	2.8	48.1	9.8	39.3	70.2	1.1	57.2	321	13
Lab #0428	04-07-17	3.8	47.4	9.7	39.1	70.0	1.1	56.8	318	12
Lab #0709	05-05-17	3.0	44.2	10.4	42.4	69.6	1.2	59.7	332	14
Lab #0775	06-05-17	3.7	47.3	9.5	39.5	70.3	1.2	57.0	321	14
SCHILDBERG CONST. CO.-GRAHAM MO Q, GREENFIELD, IA										
Stockpile #1										
Lab #0543	04-12-17	0.2	40.5	14.5	44.8	86.3	0.6	63.6	439	8
Lab #0546	04-21-17	2.1	53.7	11.0	33.2	86.6	0.6	53.2	369	6
Lab #0560	05-03-17	1.1	52.0	11.5	35.4	87.1	0.6	55.3	385	7
Lab #0714	05-22-17	1.6	55.5	9.0	33.9	85.2	0.6	53.2	362	6
Lab #0779	06-07-17	1.3	52.8	10.1	35.8	85.1	0.7	55.1	375	8
SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA										
Stockpile #1										
Lab #0106	02-09-17	1.9	45.3	13.3	39.5	87.4	1.0	58.8	411	12
Lab #0287	03-09-17	5.1	48.1	11.4	35.4	87.0	1.2	54.3	378	13
Lab #0559	04-27-17	7.4	47.3	9.2	36.1	88.0	1.1	53.4	376	12
Lab #0718	05-25-17	7.6	48.4	9.0	35.0	87.5	1.5	52.5	368	16
Lab #0777	06-06-17	8.6	47.5	9.3	34.6	86.5	1.6	52.1	360	17
SCHILDBERG CONST. CO.-WATTERSON, GREENFIELD, IA										
Stockpile #2										
Lab #0076	02-07-17	4.8	39.9	8.7	46.6	68.3	1.6	61.8	338	20
Lab #0286	03-06-17	3.4	42.7	9.5	44.4	69.6	1.7	60.8	338	21
Lab #0429	04-07-17	4.5	44.5	9.6	41.4	70.3	1.6	58.3	328	19
Lab #0710	05-05-17	3.9	42.5	8.3	45.3	70.2	1.6	60.9	342	19
Lab #0776	06-05-17	2.7	37.9	8.5	50.9	69.6	1.7	65.5	365	22
SHAWNEE STONE - CYPRESS PLANT, CYPRESS, IL										
SHAWNEE STONE - JONESBORO PLANT, ANNA, IL										
Stockpile #2										
Lab #0153	02-22-17	2.6	34.7	13.7	49.0	96.7	0.4	65.9	510	5
Lab #0600	05-09-17	2.9	30.3	12.1	54.7	96.5	0.3	69.5	537	4

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		+8	-8+40	-40+60	-60				ENM	EMg
SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO										
Stockpile #1										
Lab #0101	02-16-17	4.3	38.8	7.8	49.1	67.2	8.2	63.5	341	104
Lab #0247	03-07-17	3.6	42.8	9.9	43.7	68.3	8.3	60.3	330	100
Lab #0417	04-07-17	3.5	44.5	8.4	43.6	72.1	8.7	59.8	345	104
Lab #0598	05-05-17	2.1	41.4	10.6	45.9	77.0	9.1	62.6	386	114
Lab #0818	06-07-17	1.8	45.8	9.4	43.0	78.4	9.1	60.1	377	109
Stockpile #4										
Lab #0102	02-16-17	3.1	45.8	10.9	40.2	84.1	10.2	58.2	392	119
Lab #0248	03-07-17	2.0	44.7	9.4	43.9	84.7	10.2	60.7	411	124
Lab #0418	04-07-17	1.9	43.9	8.8	45.4	83.6	10.1	61.7	412	125
Lab #0599	05-05-17	2.3	43.4	8.3	46.0	83.6	9.9	61.8	414	122
Lab #0819	06-07-17	1.0	41.2	9.1	48.7	84.6	9.8	64.5	436	126
SKYLINE MATERIALS, LLC - GILLIAM, GILLIAM, MO										
Stockpile #1										
Lab #0028	02-07-17	6.0	50.5	8.1	35.4	89.1	6.1	52.9	377	65
Lab #0215	03-02-17	8.7	50.3	7.4	33.6	90.2	6.2	50.6	365	63
Lab #0438	04-03-17	6.3	50.6	7.8	35.3	89.7	6.4	52.6	378	67
Lab #0589	05-01-17	8.7	49.8	6.3	35.2	90.8	6.4	51.4	374	66
Lab #0766	06-01-17	6.1	49.7	7.0	37.2	92.2	7.2	53.8	397	78
SKYLINE MATERIALS-GLASGOW, GLASGOW, MO										
Stockpile #2										
Lab #0029	02-07-17	1.1	43.8	12.1	43.0	88.9	4.6	61.2	435	56
Lab #0216	03-02-17	1.1	46.0	11.4	41.5	89.7	5.6	59.8	429	67
Lab #0439	04-03-17	1.5	47.1	9.6	41.8	88.9	6.0	59.3	422	71
Lab #0590	05-01-17	1.1	46.1	9.2	43.6	87.6	5.9	60.6	425	72
Lab #0767	06-01-17	1.5	49.3	9.1	40.1	86.8	5.6	57.9	402	65
Stockpile #3										
Lab #0030	02-07-17	6.1	51.2	6.7	36.0	88.7	6.1	52.8	375	64
Lab #0217	03-02-17	5.5	54.0	7.3	33.2	88.7	6.1	51.1	362	62
Lab #0440	04-03-17	6.0	52.0	6.6	35.4	87.9	6.0	52.4	368	63
Lab #0591	05-01-17	5.6	50.4	6.2	37.8	87.8	5.8	54.1	380	63
Lab #0768	06-01-17	4.9	51.2	6.3	37.6	89.2	6.4	54.2	387	69
SOUTH CENTRAL COOP, CAINSVILLE, MO										
Stockpile #5										
Lab #0024	02-02-17	0.1	0.2	0.4	99.3	91.5	0.2	99.6	729	4
Lab #0621	05-10-17	0.0	0.3	0.3	99.4	93.9	0.1	99.7	749	2
Lab #0811	06-06-17	0.0	0.1	0.0	99.9	93.1	0.2	99.9	744	4
SMASAL AGGREGATE, LINCOLN, MO										
Stockpile #1										
Lab #0120	02-16-17	3.9	44.5	12.3	39.3	90.4	0.3	57.8	418	3
Lab #0354	03-21-17	2.3	43.5	13.6	40.6	88.4	0.4	59.6	422	5
Lab #0492	04-18-17	3.8	45.0	12.4	38.8	83.6	0.1	57.5	384	1
Lab #0695	05-24-17	2.3	44.4	14.0	39.3	87.1	0.2	58.8	410	2
SPRINGFIELD AGGREGATE SUPPLY, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0015	02-01-17	0.7	0.8	1.4	97.1	92.0	0.5	98.1	722	10
Lab #0018	02-02-17	0.0	1.2	1.9	96.9	92.7	0.5	98.3	729	10
Lab #0021	02-03-17	0.1	1.1	1.5	97.3	92.3	0.6	98.5	727	12
Lab #0464	04-10-17	0.4	1.3	1.9	96.4	92.9	0.3	97.9	727	6
S-S-S INC, LOUISIANA, MO										
Stockpile #1										
Lab #0111	02-16-17	7.1	43.7	11.0	38.2	93.6	0.6	55.7	417	7
Lab #0229	03-03-17	7.2	45.0	12.1	35.7	94.5	0.7	54.2	410	8
Lab #0346	03-23-17	7.9	45.4	11.3	35.4	92.9	0.2	53.5	398	2
Lab #0554	05-03-17	7.3	43.9	11.0	37.8	92.9	0.2	55.4	412	2
Lab #0729	05-26-17	6.6	45.6	10.9	36.9	93.4	0.2	54.8	410	2
STOCKMAN QUARRY, LLC, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0005	02-02-17	5.6	38.1	9.8	46.5	86.1	10.0	61.9	426	124
Lab #0207	03-02-17	6.6	37.4	9.7	46.3	85.5	10.1	61.5	420	124
Lab #0479	04-18-17	2.6	36.7	11.3	49.4	86.7	10.4	65.4	453	136
Stockpile #3										
Lab #0006	02-02-17	9.2	43.9	9.0	37.9	85.7	10.0	54.3	372	109
Lab #0208	03-02-17	17.7*	41.0	7.8	33.5	90.0	10.8	48.4	0	0
STRACK STONE - FRUITLAND, JACKSON, MO										
Stockpile #5										
Lab #0239	03-01-17	0.1	44.5	15.1	40.3	99.0	1.5	60.5	479	18
Lab #0332	03-23-17	0.0	34.3	16.3	49.4	97.7	1.3	67.8	530	18
Lab #0333	03-24-17	0.0	36.6	16.6	46.8	98.3	1.2	65.9	518	16

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
STRACK STONE - FRUITLAND, JACKSON, MO (Continued)										
Stockpile #5										
Lab #0420	04-05-17	0.1	28.1	17.6	54.2	100.1	2.8	71.8	575	40
STRACK STONE CO. - LODI, LLC, SILVA, MO										
Stockpile #1										
Lab #0244	03-09-17	0.8	22.4	16.8	60.0	96.7	10.8	75.7	585	163
Lab #0475	04-18-17	0.0	37.0	15.7	47.3	102.3	11.9	66.0	540	157
Stockpile #6										
Lab #0243	03-09-17	0.5	39.0	14.2	46.3	100.9	11.5	64.6	521	149
T&M STONE QUARRY LLC, FAIR PLAY, MO										
TABLE ROCK ASPHALT CONST CO INC, BRANSON, MO										
Stockpile #2										
Lab #0380	03-28-17	4.7	48.2	9.4	37.7	86.6	10.1	55.4	384	112
TABLE ROCK ASPHALT CONST CO INC-KIM, BRANSON, MO										
Stockpile #1										
Lab #0379	03-28-17	6.3	32.3	7.9	53.5	89.9	10.7	66.3	477	142
TABLE ROCK ASPHALT CONST. CO.-NICKE, BRANSON, MO										
THE ANDERSONS, INC.-SEYMOUR, IN, MAUMEE, OH										
THE HITCHING POST, BOURBON, MO										
Stockpile #2										
Lab #0141	02-22-17	0.2	3.7	12.8	83.3	93.9	11.1	91.9	690	204
Lab #0404	04-04-17	0.3	2.9	10.8	86.0	94.7	10.9	93.2	706	203
Stockpile #3										
Lab #0627	05-10-17	0.8	19.0	10.2	70.0	90.1	2.4	80.9	583	39
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Stockpile #1										
Lab #0253	03-07-17	5.7	48.0	11.1	35.2	95.9	0.8	53.9	413	9
Lab #0524	04-27-17	0.4	36.6	16.0	47.0	96.5	1.2	65.8	508	16
Lab #0658	05-18-17	0.4	41.8	15.7	42.1	96.7	1.3	62.0	479	16
Stockpile #2										
Lab #0256	03-07-17	3.8	40.8	11.7	43.7	95.7	6.3	60.9	466	77
Lab #0525	04-27-17	1.0	35.7	12.2	51.1	96.1	6.3	67.3	518	85
Lab #0659	05-18-17	2.9	41.1	11.5	44.5	96.5	6.7	61.7	476	83
Stockpile #3										
Lab #0254	03-07-17	1.0	45.4	16.7	36.9	97.4	0.4	58.3	454	5
Lab #0526	04-27-17	0.8	55.9	15.0	28.3	97.4	0.4	51.3	400	4
Lab #0660	05-18-17	1.1	45.4	17.4	36.1	98.2	0.3	57.9	455	3
Stockpile #5										
Lab #0255	03-07-17	3.6	52.7	11.4	32.3	92.7	1.4	52.3	388	15
Lab #0527	04-27-17	7.0	51.4	9.1	32.5	92.4	1.1	50.8	376	11
Lab #0661	05-18-17	4.7	51.5	11.0	32.8	93.7	2.5	52.3	392	26
TRAGER LIMESTONE-NETTLETON, CHILLICOTHE, MO										
Stockpile #1										
Lab #0050	02-09-17	0.6	53.1	10.6	35.7	81.0	1.2	55.3	359	13
Lab #0193	03-01-17	1.2	51.7	10.7	36.4	77.5	1.3	55.7	346	14
Lab #0518	04-25-17	0.4	52.4	11.4	35.8	80.5	0.9	55.7	359	10
Lab #0617	05-09-17	0.5	52.3	11.1	36.1	73.9	1.7	55.8	330	19
TRAGER LIMESTONE LLC-GALLATIN, CHILLOTHIE, MO										
Stockpile #1										
Lab #0277	03-08-17	0.5	52.6	12.5	34.4	74.2	1.4	55.1	327	15
Lab #0424	04-05-17	1.5	52.7	8.9	36.9	71.7	1.1	55.4	318	12
Lab #0619	05-09-17	0.5	51.8	10.4	37.3	76.6	1.1	56.5	346	12
Lab #0049	07-09-17	0.1	48.3	12.8	38.8	73.1	1.5	58.6	342	18
TRI COUNTY WATER AUTHORITY, INDEPENDENCE, MO										
Stockpile #1										
Lab #0164	02-24-17	0.4	1.5	1.2	96.9	87.6	1.5	98.0	687	29
Lab #0371	03-28-17	0.0	0.7	0.5	98.8	88.6	1.5	99.3	704	30
Lab #0536	04-27-17	0.1	0.5	0.6	98.8	84.6	1.5	99.3	672	30
Lab #0735	05-24-17	0.1	0.8	0.7	98.4	86.1	1.5	99.0	682	30
TWIN STATES SAND & GRAVEL - REGER, MILAN, MO										
UNITED SUPPLIERS, ELDORA, IA										
WADE AG PRODUCTS-MAIN OFC, LACYGNE, KS										
Stockpile #2										
Lab #0272	03-08-17	5.2	50.3	9.8	34.7	88.4	0.6	53.2	376	6
Lab #0436	04-06-17	6.3	47.8	9.5	36.4	81.9	1.2	54.1	354	13
Lab #0615	05-09-17	8.9	49.4	8.8	32.9	85.8	1.2	50.5	347	12
WADE AG PRODUCTS Q DREXEL, LACYGNE, KS										

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO										
Stockpile #1										
Lab #0179	03-01-17	2.9	44.3	12.2	40.6	96.6	11.5	59.0	456	136
Lab #0407	04-06-17	0.2	43.8	13.3	42.7	99.8	11.6	61.6	492	143
Stockpile #2										
Lab #0180	03-01-17	1.4	39.3	14.0	45.3	99.3	11.9	63.5	505	151
Lab #0408	04-06-17	1.2	39.3	13.9	45.6	99.8	12.0	63.8	509	153
Lab #0631	05-11-17	0.9	42.0	14.2	42.9	100.1	11.7	61.9	496	145
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Stockpile #1										
Lab #0233	02-21-17	0.4	16.2	9.4	74.0	88.7	1.3	83.7	594	22
Lab #0327	03-15-17	1.4	23.7	10.0	64.9	90.2	3.2	76.8	554	49
Lab #0399	04-06-17	1.0	25.9	9.7	63.4	88.6	2.9	75.7	537	44
Lab #0548	05-01-17	1.2	17.3	8.4	73.1	89.0	3.0	82.5	587	49
Lab #0803	06-06-17	0.3	21.2	10.3	68.2	90.5	2.2	79.7	577	35
FRED WEBER, INC.-NEW MELLE STONE, NEW MELLE, MO										
Stockpile #2										
Lab #0178	02-28-17	1.7	7.5	10.3	80.5	95.0	2.6	88.6	673	46
Lab #0482	04-17-17	0.6	5.4	8.6	85.4	95.7	2.7	91.9	704	50
Lab #0664	05-17-17	0.6	5.0	8.8	85.6	95.9	2.6	92.1	707	48
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Stockpile #1										
Lab #0097	02-14-17	5.5	21.6	14.0	58.9	94.3	2.1	72.7	548	31
Lab #0261	03-07-17	1.1	15.7	17.5	65.7	93.0	1.8	80.1	596	29
Lab #0828	06-05-17	0.8	18.4	17.1	63.7	93.5	1.7	78.6	588	27
WESTSIDE STONE CO, SPRINGFIELD, MO										
Stockpile #1										
Lab #0016	02-02-17	0.4	38.9	18.0	42.7	96.2	0.1	63.2	487	1
Lab #0200	02-28-17	0.1	39.3	17.5	43.1	96.3	0.1	63.4	489	1
Stockpile #2										
Lab #0448	04-06-17	0.1	29.0	19.7	51.2	97.0	0.1	70.3	545	1
Lab #0449	04-07-17	0.0	27.0	19.5	53.5	97.3	0.1	72.0	560	1
Lab #0463	04-10-17	0.1	31.2	18.6	50.1	97.2	0.1	69.1	537	1
Lab #0601	05-08-17	0.1	29.6	18.7	51.6	96.6	0.1	70.2	543	1
WILKERSON BROS QUARRY, PARIS, MO										
Stockpile #3										
Lab #0088	02-13-17	0.5	45.9	14.3	39.3	95.7	1.9	59.4	454	23
Lab #0235	03-01-17	0.8	47.8	13.9	37.5	92.2	0.9	57.8	426	10
Lab #0510	04-19-17	0.7	47.9	15.2	36.2	92.0	0.9	57.3	422	10
Lab #0724	05-23-17	0.9	50.0	11.9	37.2	91.7	2.2	56.8	417	25
WILLARD ASPHALT - #18 SLEEPER, LEBANON, MO										
Stockpile #1										
Lab #0358	03-23-17	0.0	0.6	3.5	95.9	77.1	9.2	98.2	605	181
Lab #0611	05-08-17	0.0	0.3	1.3	98.4	90.8	10.8	99.3	721	214
WILLARD ASPHALT PAVING,- #19, LEBANON, MO										
Stockpile #1										
Lab #0157	02-23-17	0.0	0.1	0.9	99.0	85.5	10.5	99.6	681	209
Lab #0483	04-19-17	0.0	0.2	1.1	98.7	94.1	11.3	99.4	748	225
WILLARD QUARRY-SLEEPER, LEBANON, MO										
Stockpile #1										
Lab #0173	02-23-17	0.4	39.6	15.0	45.0	88.9	10.6	63.9	454	135
Lab #0269	03-07-17	0.7	38.2	14.9	46.2	89.5	10.5	64.7	463	136
Lab #0357	03-23-17	0.3	34.3	19.5	45.9	89.3	10.5	66.2	473	139
Lab #0610	05-08-17	0.5	34.4	15.3	49.8	86.6	10.1	67.6	468	137
WILLARD QUARRIES- ST ROBERT, LEBANON, MO										
Stockpile #1										
Lab #0158	02-23-17	0.4	41.7	19.1	38.8	92.1	11.3	60.7	447	137
Lab #0395	03-28-17	0.3	35.7	19.0	45.0	89.0	10.5	65.3	465	137
Lab #0484	04-19-17	0.2	38.2	18.4	43.2	88.8	10.6	63.8	453	135
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Stockpile #1										
Lab #0476	04-18-17	2.3	39.4	13.1	45.2	95.0	11.4	62.9	478	143
Lab #0739	05-24-17	1.7	41.4	12.0	44.9	95.1	11.3	62.5	475	141

TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
GREEN POINT AG, CATRON, MO										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Lab #0294	03-14-17	4.6	17.3	26.8	51.3	99.2	11.8	71.7	569	169
Lab #0646	05-16-17	9.5	28.7	16.2	45.6	99.4	11.2	62.5	497	140
AGRI SERVICES OF LEBANON, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0172	02-23-17	0.2	10.0	15.3	74.5	96.9	0.2	86.2	668	3
Lab #0356	03-23-17	0.1	13.1	15.7	71.1	96.9	0.3	83.8	650	5
Lab #0609	05-08-17	0.2	16.0	14.8	69.0	96.4	0.4	81.9	631	7
BACKES & TOLKE, NEW HAVEN, MO										
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0683	05-22-17	0.0	0.4	1.2	98.4	96.8	2.6	99.2	768	52
BELLE PLANT FOODS, BELLE, MO										
BARRETT MATERIALS INC, NEW HAVEN, MO										
Lab #0393	03-27-17	4.1	17.1	7.4	71.4	88.0	10.4	80.1	564	167
CON-AGG OF MO, LLC-BOONE QUARRIES, COLUMBIA, MO										
Lab #0520	04-24-17	4.0	17.8	7.5	70.7	88.2	10.3	79.7	562	164
Lab #0741	05-30-17	3.6	18.0	7.6	70.8	87.4	10.5	79.9	558	168
BOLIVAR FARMERS EXCHANGE, BOLIVAR, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0117	02-14-17	0.0	17.0	15.6	67.4	96.5	0.3	81.0	625	5
GFG - BETHANY, BETHANY, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0042	02-06-17	0.0	0.1	0.4	99.5	89.4	0.5	99.8	714	10
Lab #0341	03-22-17	0.3	0.4	0.9	98.4	84.1	0.6	99.0	666	12
Lab #0455	04-10-17	0.4	0.4	0.8	98.4	84.9	0.6	99.0	672	12
Lab #0755	05-31-17	0.7	1.3	2.5	95.5	79.3	0.6	97.3	617	12
CHULA FARMERS COOP, CHULA, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0378	03-31-17	0.7	18.4	10.0	70.9	88.7	3.0	81.5	578	49
Lab #0667	05-17-17	0.8	19.7	8.6	70.9	89.9	2.2	81.0	582	36
UNITED SUPPLIERS, ELDORA, IA										
Lab #0165	02-24-17	1.2	13.0	8.8	77.0	88.0	1.4	85.5	602	24
COOP ASSN #130 - MCKITTRICK, HERMANN, MO										
MFA INC, COLUMBIA, MO										
Lab #0177	02-28-17	0.3	15.7	8.6	75.4	88.5	1.3	84.5	598	22
DELTA GROWERS ASSN-EAST PRAIRIE, CHARLESTON, MO										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Lab #0390	03-28-17	5.9	21.9	23.2	49.0	99.0	11.7	68.4	542	160
Lab #0784	06-06-17	5.5	20.7	28.3	45.5	99.8	12.2	67.7	540	165
DENT COUNTY FARM SUPPLY, SALEM, MO										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Lab #0651	05-16-17	2.1	43.3	12.9	41.7	99.5	11.7	60.3	480	141
WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO										
Lab #0303	03-15-17	2.0	41.6	12.6	43.8	98.2	11.7	61.8	485	145
DICKEY FARM SUPPLY, CALEDONIA, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0415	04-06-17	1.0	19.1	9.7	70.2	88.9	2.2	80.8	575	36
Lab #0633	05-11-17	0.6	24.3	9.5	65.6	90.5	2.7	77.4	560	42
J. ECKSTEIN ENTERPRISES, BEAUFORT, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0297	03-14-17	0.9	18.3	10.1	70.7	89.8	2.0	81.3	584	33
Lab #0334	03-21-17	1.2	18.6	9.6	70.6	89.5	1.9	81.0	580	31
Lab #0636	05-12-17	0.6	19.9	10.1	69.4	90.3	2.5	80.4	581	40
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0298	03-14-17	0.0	0.4	1.0	98.6	98.9	6.9	99.3	786	137
Lab #0335	03-21-17	0.0	0.4	1.0	98.6	97.7	5.1	99.3	776	101
FARMER'S COOP #280, FREEBURG, MO										
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Lab #0742	05-30-17	1.2	12.9	8.3	77.6	86.5	10.4	85.8	594	178
FARMERS 280 FERTILIZER COMPANY, FREEBURG, MO										
Lab #0056	02-10-17	0.8	11.8	9.5	77.9	86.3	10.2	86.6	598	177
MFA INC, COLUMBIA, MO										
Lab #0055	02-10-17	0.5	23.6	10.1	65.8	89.4	3.0	77.8	556	47
Lab #0175	02-27-17	0.7	22.6	9.6	67.1	89.0	3.0	78.5	559	47
Lab #0743	05-30-17	1.0	22.5	10.7	65.8	90.2	2.6	77.8	562	40
FARMER'S EXCHANGE BULK PLANT, CROCKER, MO										
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Lab #0154	02-23-17	1.1	15.2	8.7	75.0	87.1	10.6	84.0	585	178

TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
FARMERS COOPERATIVE ASSN #301, SULLIVAN, MO										
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0143	02-22-17	0.0	0.2	0.6	99.2	98.8	6.9	99.6	787	137
FARMERS PRODUCERS EXCHANGE-CONWAY, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0169	02-21-17	0.1	21.5	18.4	60.0	97.0	0.3	76.4	593	5
Lab #0353	03-23-17	0.2	8.5	14.0	77.3	97.5	0.9	87.8	685	16
Lab #0693	05-23-17	0.1	17.8	15.9	66.2	97.4	0.4	80.2	625	6
GFG ARGIPRODUCTS, GILMAN CITY, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0376	03-30-17	0.3	0.7	2.3	96.7	84.6	0.6	98.3	665	12
Lab #0485	04-18-17	0.1	0.8	2.5	96.6	85.3	0.6	98.3	671	12
GIBSON LIME CO-DEXTER, DEXTER, MO										
BASE ROCK MINREALS, JACKSON, MO										
Lab #0643	05-15-17	0.0	37.8	14.7	47.5	98.1	2.1	65.8	516	28
STRACK STONE - FRUITLAND, JACKSON, MO										
Lab #0241	03-08-17	0.7	43.5	15.2	40.6	98.4	1.1	60.6	477	13
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Lab #0240	03-08-17	5.5	23.0	24.5	47.0	100.3	12.0	67.5	541	162
Lab #0644	05-15-17	8.9	25.4	17.1	48.6	99.7	11.6	65.2	520	151
HEARTLAND MATERIALS LLC, JACKSON, MO										
Lab #0242	03-08-17	2.6	36.4	14.8	46.2	96.2	1.9	64.2	494	24
Lab #0645	05-15-17	1.2	37.7	15.7	45.4	96.7	2.0	64.2	497	26
HELENA CHEMICAL COMPANY-HARRIS, NEWTOWN, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0093	02-14-17	0.0	0.1	0.2	99.7	86.2	0.6	99.8	689	12
Lab #0274	03-06-17	0.2	0.2	0.6	99.0	86.3	0.7	99.4	686	14
Lab #0456	04-11-17	0.2	0.2	0.7	98.9	87.9	0.5	99.4	699	10
Lab #0577	05-04-17	0.1	0.7	2.5	96.7	86.0	0.6	98.4	677	12
HELENA CHEMICAL COMPANY-EAST, UNIONVILLE, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0146	02-22-17	0.1	0.3	0.7	98.9	86.4	0.7	99.4	687	14
Lab #0487	04-19-17	0.1	0.5	2.7	96.7	84.8	0.6	98.4	668	12
GFG AGRIPRODUCTS, LLC, TRENTON, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0377	03-30-17	3.4	17.4	8.8	70.4	87.3	0.5	80.0	559	8
Lab #0624	05-12-17	0.5	11.6	11.6	76.3	88.3	0.4	86.2	609	7
GFG AGRIPRODUCTS, LLC, TRENTON, MO										
Lab #0045	02-07-17	0.0	0.2	0.4	99.4	83.0	0.6	99.7	662	12
LOHMAN PRODUCERS EXCHANGE, LOHMAN, MO										
MFA INC, COLUMBIA, MO										
Lab #0008	02-02-17	1.3	20.1	9.9	68.7	89.1	2.0	79.7	568	32
Lab #0206	03-02-17	0.1	17.8	9.6	72.5	88.3	1.4	82.7	584	23
Lab #0337	03-24-17	0.5	24.0	10.2	65.3	89.2	3.1	77.4	552	48
Lab #0744	05-30-17	0.7	26.9	9.9	62.5	90.7	3.5	75.2	545	53
MFA COOP #130, RHINELAND, MO										
MFA INC, COLUMBIA, MO										
Lab #0626	05-08-17	0.7	14.4	8.4	76.5	88.7	1.1	85.1	604	19
MFA AGRI SERVICE, KIRKSVILLE, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0022	02-01-17	1.4	24.0	9.4	65.2	89.5	2.0	76.8	550	31
MFA INC, COLUMBIA, MO										
Lab #0306	03-13-17	1.0	20.7	10.9	67.4	89.0	1.4	79.1	563	22
Lab #0421	04-03-17	1.5	16.8	9.7	72.0	89.1	1.5	82.0	585	25
Lab #0517	04-24-17	0.2	26.5	9.6	63.7	89.4	2.4	76.1	544	37
MFA EXCHANGE, CHAMOIS, MO										
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0829	06-06-17	0.0	0.4	1.4	98.2	98.1	4.8	99.1	778	95
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Lab #0003	02-01-17	0.1	0.5	0.9	98.5	98.7	6.6	99.2	783	131
MFA EXCHANGE, META, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0161	02-23-17	2.0	15.0	10.2	72.8	89.7	1.2	82.7	593	20
Lab #0684	05-24-17	1.1	17.0	9.2	72.7	90.4	1.4	82.5	596	23
MFA AGRI SERVICE, BETHANY, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0041	02-06-17	0.7	19.7	13.5	66.1	87.8	0.4	79.1	556	6
Lab #0339	03-22-17	5.3	13.0	12.2	69.5	88.9	0.5	80.1	569	8
Lab #0622	05-11-17	2.3	12.1	13.0	72.6	90.0	0.4	83.4	601	7

TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2017

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
MFA AGRI SERVICE, BROOKFIELD, MO MFA INC, COLUMBIA, MO										
Lab #0147	02-23-17	2.9	27.2	13.1	56.8	89.0	0.4	71.5	509	6
Lab #0278	03-09-17	0.4	24.3	12.8	62.5	88.4	0.4	76.3	539	6
Lab #0343	03-24-17	10.0	15.0	10.8	64.2	88.1	0.5	74.4	525	7
MFA AGRI SERVICE, BROWNING, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0375	03-29-17	2.3	15.2	12.8	69.7	88.5	0.4	81.2	575	6
MFA AGRI SERVICE, JEFFERSON CITY, MO MFA INC, COLUMBIA, MO										
Lab #0035	02-08-17	1.6	23.6	10.5	64.3	89.9	2.9	76.5	550	44
Lab #0249	03-06-17	0.4	26.8	12.4	60.4	90.1	3.0	74.5	537	45
Lab #0587	05-05-17	2.3	22.3	11.0	64.4	89.9	2.8	76.6	551	43
MFA AGRI SERVICE, LANCASTER, MO MFA INC, COLUMBIA, MO										
Lab #0305	03-13-17	0.3	16.9	10.3	72.5	88.9	1.5	82.9	590	25
Lab #0422	04-03-17	0.2	23.7	13.1	63.0	89.2	1.4	76.8	548	21
Lab #0516	04-24-17	0.3	20.7	10.9	68.1	87.9	1.4	79.8	561	22
FARMERS PRODUCE EXCHANGE, LEBANON, MO CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0171	02-23-17	0.2	20.1	17.6	62.1	97.5	0.4	77.7	606	6
Lab #0355	03-23-17	0.2	17.2	17.6	65.0	97.3	0.2	79.9	622	3
Lab #0608	05-08-17	0.1	9.2	13.0	77.7	97.3	0.7	87.8	683	12
MFA AGRI SERVICES, LINEVILLE, IA MFA INC, COLUMBIA, MO										
Lab #0025	02-02-17	1.7	16.5	9.8	72.0	89.3	2.0	82.0	586	33
Lab #0373	03-27-17	0.7	22.7	11.0	65.6	89.2	2.1	77.9	556	33
Lab #0457	04-13-17	1.9	21.8	10.9	65.4	89.8	2.0	77.4	556	31
Lab #0690	05-25-17	0.3	22.0	11.2	66.5	89.7	1.2	78.7	565	19
MFA AGRI SERVICE, MACON, MO MFA INC, COLUMBIA, MO										
Lab #0048	02-08-17	1.6	16.6	9.4	72.4	88.8	1.0	82.2	584	16
Lab #0575	05-02-17	1.3	20.3	11.3	67.1	89.1	3.1	79.0	563	49
MFA AGRI SERVICE, MILAN, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0023	02-01-17	1.3	23.4	12.0	63.3	88.6	0.4	76.4	541	6
Lab #0616	05-08-17	1.8	19.4	12.4	66.4	88.6	0.4	78.7	558	6
Lab #0688	05-23-17	0.0	24.3	10.4	65.3	89.2	0.4	77.6	554	6
MFA AGRI SERVICE, NEW CAMBRIA, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0134	02-15-17	0.5	24.0	11.0	64.5	89.1	1.6	77.1	550	25
Lab #0666	05-16-17	0.4	23.9	10.8	64.9	89.7	1.5	77.4	555	23
MFA AGRI SERVICE, OWENSVILLE, MO MFA INC, COLUMBIA, MO										
Lab #0032	02-06-17	1.5	19.3	9.7	69.5	89.2	3.2	80.1	572	51
Lab #0262	03-08-17	0.3	21.9	10.5	67.3	90.1	2.1	79.1	570	33
Lab #0681	05-23-17	0.1	20.8	9.6	69.5	88.6	1.3	80.5	570	21
FARMER EXCHANGE BULK PLANT - ROLLA, ROLLA, MO MFA INC, COLUMBIA, MO										
Lab #0096	02-13-17	0.6	20.6	9.6	69.2	90.2	2.7	80.1	578	43
MFA AGRI SERVICE, ST CLAIR, MO MFA INC, COLUMBIA, MO										
Lab #0299	03-14-17	0.0	0.4	0.4	99.2	83.3	0.2	99.5	663	4
Lab #0461	04-11-17	0.0	0.2	0.2	99.6	91.6	0.2	99.8	731	4
MFA AGRI SERVICE, STE GENEVIEVE, MO MFA INC, COLUMBIA, MO										
Lab #0653	05-18-17	1.2	26.8	10.7	61.3	90.7	2.9	74.4	540	43
MFA AGRI SERVICE, TRENTON, MO MFA INC, COLUMBIA, MO										
Lab #0043	02-07-17	5.0	18.2	12.2	64.6	89.5	0.4	76.5	548	6
Lab #0374	03-27-17	6.5	20.7	12.8	60.0	89.5	0.4	72.9	522	6
Lab #0687	05-23-17	1.2	21.1	12.1	65.6	89.9	0.4	78.1	562	6
Lab #0813	06-06-17	3.1	16.5	12.3	68.1	88.8	0.4	79.6	566	6
MFA EXCHANGE, SALEM, MO FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0300	03-15-17	1.2	14.4	9.1	75.3	91.5	1.1	84.4	618	19
Lab #0301	03-15-17	1.5	13.0	8.8	76.7	86.9	10.3	85.2	593	176

TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JANUARY 1 THROUGH JUNE 30, 2017

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
LEO O'LAUGHLIN, MACON, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #0047	02-08-17	1.0	39.9	14.2	44.9	82.2	0.1	63.4	417	1
Lab #0307	03-15-17	3.5	36.7	10.9	48.9	88.2	3.0	64.6	456	39
Lab #0489	04-21-17	1.2	35.3	13.5	50.0	75.4	0.1	66.9	404	1
LEO O'LAUGHLIN INC, MARCELINE, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #0135	02-15-17	1.3	35.7	15.5	47.5	84.0	0.3	65.7	442	4
Lab #0308	03-15-17	1.1	34.1	13.4	51.4	84.3	0.3	68.0	458	4
Lab #0490	04-21-17	1.4	32.3	15.3	51.0	86.7	0.3	68.3	473	4
Lab #0578	05-05-17	1.6	32.0	13.8	52.6	86.1	0.3	68.9	474	4
Lab #0754	05-30-17	1.2	31.1	13.6	54.1	88.0	0.5	70.0	493	7
OLEAN SEED COMPANY, OLEAN, MO										
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Lab #0007	02-02-17	6.1	50.1	12.1	31.7	93.0	0.4	51.5	383	4
R & M FEED, POTOSI, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0409	04-06-17	0.6	18.6	10.1	70.7	89.0	2.1	81.4	580	34
Lab #0746	05-31-17	1.0	22.0	10.4	66.6	90.3	2.4	78.3	566	38
RICHLAND PLANT FOODS, RICHLAND, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0155	02-23-17	0.1	14.2	16.0	69.7	97.1	0.3	82.9	644	5
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0156	02-23-17	0.7	14.8	9.5	75.0	88.0	1.3	84.4	594	22
SCHAEPERKOETTER STORE, MT STERLING, MO										
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0740	05-30-17	0.1	0.5	1.4	98.0	97.3	6.6	99.0	770	131
CENTRAL STONE, LA PLATA, MO										
CENTRAL STONE COMPANY - NEWARK, HANNIBAL, MO										
Lab #0574	05-02-17	2.9	37.3	9.1	50.7	91.0	2.1	65.5	477	28
Lab #0753	05-30-17	3.3	41.3	8.3	47.1	91.3	2.3	62.4	456	29
SKYLINE MATERIALS - NEWARK, NEWARK, MO										
Lab #0046	02-08-17	4.6	40.1	11.5	43.8	88.4	2.8	60.7	429	34
Lab #0338	03-20-17	5.5	41.0	10.1	43.4	88.4	3.1	59.7	422	37
STRAATMANN FEED, LABADIE, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0100	02-14-17	0.4	17.7	9.8	72.1	88.8	1.3	82.4	585	21
Lab #0304	03-16-17	0.6	16.3	10.6	72.5	89.5	2.3	82.9	594	38
STOCKMAN FEED & FERTILIZER, JEFFERSON CITY, MO										
GAVILON FERTILIZER, LLC, SAUGET, IL										
Lab #0010	02-02-17	0.7	20.2	10.2	68.9	89.8	1.0	80.1	575	16
Lab #0250	03-06-17	1.5	12.5	8.5	77.5	88.7	1.3	85.7	608	22
Lab #0462	04-14-17	1.0	15.7	8.4	74.9	89.1	1.4	83.9	598	23
T & N INC, FORISTELL, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0481	04-21-17	1.0	22.9	10.7	65.4	89.5	1.9	77.5	555	29
WASHINGTON COUNTY FARM SUPPLY, BELGRADE, MO										
LYNN SHARPE LIME, WAYNESVILLE, MO										
Lab #0632	05-11-17	0.5	21.8	10.7	67.0	89.8	2.4	78.9	567	38

EXAMPLES OF FINENESS FACTOR CALCULATION, ENM AND EMg

DERIVATION OF FINENESS FACTOR

EXAMPLE

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 % 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

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

Address Service Requested

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