

**Missouri
Agricultural Liming
Materials Report**

January 1 to June 30, 2014

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 July 1 through December 31, 2013. There were 532 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. Eighteen deficient samples are reported, fourteen for excessive coarseness, four for low CCE. There were five "stop sale" order's issued against producer stockpiles: four for excessive coarseness, and one for low CCE. One of the Stop Sale Orders has been released due to corrective action taken at the quarry.

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	1,000,000*	1,572,329*

* PRELIMINARY ESTIMATE

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2014

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										
ALBY QUARRY, CARLINVILLE, IL										
ALLEN QUARRIES INC, LOCKWOOD, MO										
Stockpile #1										
Lab #0266	04-09-14	0.3	53.2	15.2	31.3	93.0	0.4	53.7	400	4
Lab #0426	05-22-14	0.8	50.9	14.0	34.3	89.6	0.8	55.4	397	9
AMERICAN ROCK, LLC, BRANSON, MO										
Stockpile #1										
Lab #0345	04-30-14	1.6	34.9	10.2	53.3	84.1	10.2	68.1	458	139
Stockpile #2										
Lab #0346	04-30-14	0.2	42.6	10.7	46.5	80.7	2.8	63.6	410	36
ANNA QUARRY, INC, ANNA, IL										
APAC MISSOURI/HILTY DIV-ADRIAN, OVERLAND PARK, KS										
Stockpile #2										
Lab #0257	04-07-14	12.3*	43.0	8.3	36.4	91.5	0.4	52.1	0	0
Stockpile #3										
Lab #0258	04-07-14	12.8*	41.8	9.5	35.9	92.2	0.5	52.1	0	0
Stockpile #4										
Lab #0256	04-07-14	9.8	41.3	9.2	39.7	89.6	0.5	55.5	398	6
APAC - KANSAS, INC. - CAMERON, PLATTSBURG, MO										
Stockpile #2										
Lab #0041	02-13-14	0.1	46.0	11.1	42.8	77.7	1.5	61.0	379	18
Lab #0130	03-06-14	0.2	47.0	12.1	40.7	81.0	1.1	59.7	387	13
Lab #0353	05-02-14	0.2	47.3	11.6	40.9	77.2	1.7	59.7	369	20
Lab #0511	06-13-14	0.4	40.6	12.1	46.9	75.3	1.6	64.3	387	21
APAC - KANSAS, INC. - GOWER, PLATTSBURG, MO										
Stockpile #3										
Lab #0148	03-10-14	0.6	48.0	10.5	40.9	78.1	0.9	59.2	370	11
Lab #0254	04-08-14	0.2	44.9	14.5	40.4	75.6	1.0	60.3	365	12
Lab #0350	05-02-14	0.1	35.6	14.3	50.0	70.6	1.1	67.5	381	15
Lab #0527	06-16-14	0.8	37.4	13.9	47.9	77.4	1.2	65.6	406	16
APAC - KANSAS, INC. - KINGSTON, PLATTSBURG, MO										
Stockpile #1										
Lab #0124	03-06-14	3.6	49.2	10.1	37.1	87.0	1.3	55.5	386	14
Lab #0221	03-31-14	3.9	47.9	11.0	37.2	86.3	1.0	55.8	385	11
Lab #0272	04-18-14	4.0	44.1	10.5	41.4	85.8	1.3	58.7	403	15
Stockpile #2										
Lab #0125	03-06-14	3.2	54.5	9.4	32.9	84.5	0.5	52.2	353	5
Lab #0222	03-31-14	1.8	54.3	10.2	33.7	84.9	0.5	53.4	363	5
Lab #0273	04-18-14	1.7	50.9	10.8	36.6	85.4	0.6	55.8	381	7
Stockpile #3										
Lab #0127	03-06-14	0.3	27.2	16.9	55.6	83.4	0.7	72.5	484	10
Lab #0223	03-31-14	0.3	17.8	20.8	61.1	80.5	0.6	78.0	503	9
Lab #0274	04-18-14	0.9	24.5	18.0	56.6	82.2	0.7	73.5	484	10
Stockpile #4										
Lab #0126	03-06-14	1.0	40.3	12.6	46.1	82.9	0.6	63.7	423	8
Lab #0224	03-31-14	1.5	40.1	13.1	45.3	83.6	0.6	63.2	423	8
Lab #0275	04-18-14	2.1	52.1	9.8	36.0	84.5	0.6	54.9	371	7
APAC-KANSAS, INC - HARRISONVILLE, HARRISONVILLE, MO										
APAC - KANSAS, INC. - LATHROP, PLATTSBURG, MO										
Stockpile #1										
Lab #0014	01-28-14	0.2	46.4	14.2	39.2	69.3	1.4	59.3	329	17
Stockpile #2										
Lab #0016	01-28-14	1.0	49.4	11.9	37.7	78.8	1.1	57.2	361	13
Lab #0149	03-10-14	1.7	47.2	12.8	38.3	82.9	0.9	57.8	383	10
Lab #0387	05-13-14	0.7	48.6	11.3	39.4	84.9	0.8	58.3	396	9
Lab #0528	06-16-14	0.7	48.3	11.9	39.1	85.9	0.8	58.3	401	9
Stockpile #5										
Lab #0017	01-28-14	0.2	55.6	10.6	33.6	73.6	1.4	53.9	317	15
APAC MISSOURI/HILTY DIV - LEETON, CLINTON, MO										
Stockpile #3										
Lab #0101	02-19-14	2.2	41.8	12.2	43.8	92.0	0.3	61.6	453	4
APAC MISSOURI/HILTY DIV.- MONTROSE, CLINTON, MO										
Stockpile #1										
Lab #0143	03-10-14	9.2	51.8	8.1	30.9	79.8	1.0	48.7	311	10
Lab #0444	05-27-14	7.1	51.6	8.0	33.3	79.1	1.2	51.0	323	12
APAC MISSOURI/HILTY DIV- SOUTH DELL, OVERLAND PARK, KS										
Stockpile #1										
Lab #0104	02-27-14	3.9	48.2	10.8	37.1	92.2	0.4	55.6	410	4

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
APAC MISSOURI/HILTY DIV- SOUTH DELL, OVERLAND PARK, KS (Continued)										
Stockpile #1										
Lab #0264	04-08-14	2.2	48.5	11.5	37.8	93.6	1.0	56.8	426	11
Lab #0479	06-05-14	2.8	47.9	11.4	37.9	92.9	0.7	56.7	422	8
APAC - KANSAS, INC. - STANBERRY, PLATTSBURG, MO										
Stockpile #1										
Lab #0510	06-12-14	13.3*	41.2	8.6	36.9	74.7	1.4	52.4	0	0
Lab #0525	06-17-14	13.7*	43.6	7.7	35.0	73.7	1.4	50.5	0	0
Lab #0526	06-18-14	21.9*	41.6	5.9	30.6	73.1	1.4	44.5	0	0
APAC MISSOURI/HILTY DIV - TIGHTWAD, OVERLAND PARK, KS										
Stockpile #1										
Lab #0261	04-08-14	2.1	40.7	12.8	44.4	91.8	0.2	62.3	457	2
Lab #0480	06-06-14	5.4	40.4	11.0	43.2	91.3	0.8	59.9	438	10
Stockpile #2										
Lab #0262	04-08-14	2.2	52.7	9.7	35.4	73.1	3.5	54.4	318	38
APAC MISSOURI/HILTY DIV - URICH, CLINTON, MO										
Stockpile #3										
Lab #0200	03-25-14	9.6	50.8	8.4	31.2	76.6	0.8	48.9	300	8
Lab #0443	05-27-14	6.5	50.5	9.8	33.2	75.5	1.2	51.7	312	12
APAC-CENTRAL INC.-N.HARRISON QUARRY, FAYETTEVILLE, AR										
APAC-CENTRAL INC. -VALLEY SPRINGS, FAYETEVILLE, AR										
APAC-MISSOURI, INC - BAGNELL 13, OVERLAND PARK, KS										
Stockpile #1										
Lab #0312	04-24-14	10.0	42.1	12.6	35.3	67.2	8.4	53.4	287	90
Stockpile #2										
Lab #0313	04-24-14	11.7*	39.6	13.0	35.7	76.5	9.6	53.4	0	0
APAC-MISSOURI, INC. - BOONVILLE, OVERLAND PARK, KS										
Stockpile #1										
Lab #0044	02-17-14	6.0	50.5	11.4	32.1	91.9	0.9	51.6	379	9
Lab #0122	03-06-14	6.2	47.9	13.0	32.9	94.5	0.1	52.7	398	1
Lab #0233	04-08-14	6.7	49.3	12.3	31.7	93.5	0.2	51.4	385	2
Lab #0359	05-05-14	6.8	47.5	13.0	32.7	94.3	0.4	52.4	395	4
Stockpile #2										
Lab #0123	03-06-14	7.3	48.6	12.9	31.2	94.5	0.1	51.1	386	1
Lab #0234	04-08-14	6.5	49.6	12.2	31.7	95.1	0.2	51.4	391	2
Lab #0360	05-05-14	5.9	49.6	12.6	31.9	94.7	0.7	51.9	393	7
APAC - BRICKEY'S STONE, BLOOMSDALE, MO										
Stockpile #1										
Lab #0079	02-25-14	1.0	40.9	11.4	46.7	93.2	0.8	63.8	475	10
Lab #0402	05-14-14	0.2	32.8	15.6	51.4	96.8	0.9	69.0	534	12
Lab #0492	06-11-14	0.1	38.2	15.9	45.8	98.3	0.9	64.9	510	12
APAC - KANSAS & MISSOURI -DEFIANCE, OVERLAND PARK, KS										
Stockpile #1										
Lab #0119	03-05-14	3.2	48.0	9.2	39.6	94.8	5.8	57.1	433	66
Lab #0450	06-03-14	1.0	42.6	11.2	45.2	96.6	5.9	62.6	484	74
APAC-MISSOURI, INC. - LINN CREEK, LINN CREEK, MO										
APAC-CENTRAL, INC. - BUSIEK, FAYETTEVILLE, AR										
APAC-MISSOURI, INC. - MARSHALL, MARSHALL, MO										
Stockpile #5										
Lab #0072	02-25-14	5.3	53.5	10.8	30.4	89.5	0.2	50.3	360	2
Lab #0165	03-19-14	3.1	40.0	12.6	44.3	67.6	4.0	61.9	335	49
Lab #0241	04-11-14	3.4	50.6	11.5	34.5	85.8	0.7	54.1	371	8
Lab #0331	05-01-14	0.5	43.0	14.7	41.8	82.8	1.7	61.4	407	21
APAC-MISSOURI, INC.-MARSHALL (WEST), OVERLAND PARK, KS										
APAC-MISSOURI, INC - PETTIS QUARRY, OVERLAND PARK, KS										
APAC-CENTRAL INC. - ROARK CREEK, FAYETTEVILLE, AR										
Stockpile #1										
Lab #0344	04-30-14	4.2	50.8	7.1	37.9	87.4	10.5	54.9	384	115
ARKANSAS LIME COMPANY, INC., BATESVILLE, AR										
Stockpile #1										
Lab #0018	01-27-14	7.7	38.4	12.3	41.6	95.8	0.2	58.6	449	2
ASH GROVE AGGREGATES-DEEPWATER, OVERLAND PARK, KS										
Stockpile #1										
Lab #0147	03-14-14	0.2	46.7	14.4	38.7	89.8	0.1	59.0	424	1
Lab #0429	05-21-14	0.2	43.6	13.1	43.1	95.2	0.2	61.9	471	2
Lab #0481	06-06-14	0.1	41.7	13.8	44.4	95.9	0.2	63.1	484	3
ASH GROVES AGGREGATES-DEVER, OVERLAND PARK, KS										
Stockpile #1										
Lab #0144	03-11-14	0.2	34.0	15.7	50.1	94.2	0.1	68.0	513	1

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
ASH GROVES AGGREGATES-DEVER, OVERLAND PARK, KS (Continued)										
Stockpile #1										
Lab #0412	05-14-14	0.8	36.5	16.1	46.6	94.8	0.3	65.4	496	4
ASH GROVE AGGREGATES-FAIR GROVE, OVERLAND PARK, KS										
Stockpile #2										
Lab #0007	01-29-14	6.0	51.2	7.5	35.3	85.4	10.3	52.6	359	108
ASH GROVE AGGREGATES-FAIR PLAY, OVERLAND PARK, KS										
Stockpile #2										
Lab #0023	02-03-14	0.4	38.1	17.2	44.3	94.6	0.2	64.1	485	3
Lab #0201	03-27-14	0.0	36.5	18.2	45.3	92.2	0.4	65.3	482	5
ASH GROVE AGGREGATES INC-S&K, OVERLAND PARK, KS										
Stockpile #2										
Lab #0011	01-29-14	0.0	44.1	16.4	39.5	83.8	0.6	60.4	405	7
Lab #0355	04-30-14	0.7	43.5	14.7	41.1	87.4	0.6	60.8	425	7
ASH GROVE AGGREGATES INC-LACYGNE, OVERLAND PARK, KS										
Stockpile #1										
Lab #0012	01-29-14	0.4	46.8	9.8	43.0	78.4	1.3	60.6	380	16
Lab #0259	04-07-14	1.1	43.2	10.2	45.5	81.2	1.1	62.4	405	14
ASH GROVE AGGREGATES INC-MARSHFIELD, OVERLAND PARK, KS										
ASH GROVE AGGREGATES INC-MONTEVALLO, OVERLAND PARK, KS										
ASH GROVE AGGREGATES INC-OSCEOLA, OVERLAND PARK, KS										
Stockpile #1										
Lab #0145	03-12-14	2.8	47.6	11.4	38.2	91.2	1.4	56.9	415	16
Lab #0314	04-25-14	2.7	47.4	13.7	36.2	92.1	1.4	56.3	415	16
Lab #0430	05-21-14	0.7	47.9	9.3	42.1	81.7	5.2	59.7	390	62
ASH GROVE AGGREGATES INC-WHEATLAND, OVERLAND PARK, KS										
Stockpile #1										
Lab #0102	02-20-14	7.2	46.8	10.4	35.6	95.9	0.1	53.5	411	1
Lab #0295	04-14-14	5.1	45.7	11.6	37.6	96.8	0.2	56.0	434	2
Lab #0477	06-02-14	7.0	46.4	10.5	36.1	96.9	0.2	54.0	419	2
Stockpile #2										
Lab #0103	02-20-14	0.1	47.4	14.4	38.1	95.2	0.1	58.6	446	1
Lab #0296	04-14-14	0.2	41.9	14.3	43.6	95.4	0.2	62.7	478	3
Lab #0478	06-02-14	0.2	45.2	13.9	40.7	96.8	0.2	60.3	467	2
ASH GROVE AGGREGATES INC-BUFFALO, OVERLAND PARK, KS										
Stockpile #1										
Lab #0009	01-28-14	7.6	42.3	9.1	41.0	90.5	11.2	57.0	413	128
Lab #0292	04-14-14	7.1	42.8	10.3	39.8	92.9	11.7	56.7	421	133
Lab #0487	06-09-14	4.5	45.7	12.8	37.0	91.9	10.9	56.1	412	122
BAILEY QUARRIES INC-CHESAPEAKE Q., REPUBLIC, MO										
Stockpile #1										
Lab #0347	05-01-14	0.1	40.5	8.9	50.5	93.1	11.5	66.0	491	152
BAILEY QUARRIES, INC -EUDORA QUARRY, REPUBLIC, MO										
Stockpile #1										
Lab #0384	05-07-14	0.1	40.9	17.0	42.0	94.2	0.1	62.4	470	1
Stockpile #2										
Lab #0385	05-07-14	3.0	53.8	12.8	30.4	96.5	0.1	51.5	398	1
BAILEY QUARRIES INC-JANE, REPUBLIC, MO										
Stockpile #2										
Lab #0138	03-07-14	5.2	49.0	7.8	38.0	89.5	10.7	54.9	393	118
Lab #0414	05-20-14	0.3	46.0	9.8	43.9	84.1	10.5	61.3	412	129
BAILEY QUARRIES, INC.-MADRY QUARRY, REPUBLIC, MO										
BAILEY QUARRIES - SARCOXIE, REPUBLIC, MO										
Stockpile #1										
Lab #0427	05-22-14	7.4	48.1	10.8	33.7	89.4	0.1	52.2	373	1
BAILEY QUARRIES INC-STOCKTON, REPUBLIC, MO										
Stockpile #1										
Lab #0146	03-13-14	0.5	50.4	14.6	34.5	95.0	0.1	55.9	425	1
BARRETT MATERIALS, INC. - BELLE, NEW HAVEN, MO										
BARRETT MATERIALS INC, NEW HAVEN, MO										
Stockpile #1										
Lab #0092	02-26-14	8.9	37.0	8.5	45.6	68.9	8.2	60.0	330	98
Lab #0433	05-28-14	1.1	36.8	11.0	51.1	67.7	8.4	66.9	362	112
Lab #0458	06-05-14	0.0	38.6	11.1	50.3	73.8	8.5	66.6	393	113
Lab #0491	06-10-14	0.0	39.6	10.7	49.7	73.7	9.2	66.0	389	121
BASE ROCK MINERALS, BONNE TERRE, MO										
Stockpile #1										
Lab #0089	02-25-14	1.9	49.9	12.6	35.6	96.9	11.8	55.6	431	131
Lab #0191	03-26-14	1.9	51.8	11.7	34.6	98.3	11.3	54.6	429	123

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JANUARY 1 THROUGH JUNE 30, 2014

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 (CONTINUED)										
Stockpile #1										
Lab #0455	06-04-14	3.9	58.5	9.5	28.1	98.0	11.9	48.4	380	115
Stockpile #2										
Lab #0090	02-25-14	0.7	48.8	11.5	39.0	97.3	11.4	58.1	452	132
Lab #0192	03-26-14	0.6	43.7	13.8	41.9	94.8	11.4	61.1	463	139
Lab #0456	06-04-14	0.4	47.2	12.0	40.4	96.7	11.9	59.4	460	141
BOONE QUARRIES INC - WEST, COLUMBIA, MO										
BOONE QUARRIES INC - NORTH, COLUMBIA, MO										
BOONE QUARRIES - EAST, COLUMBIA, MO										
Stockpile #1										
Lab #0115	03-06-14	1.2	18.4	16.0	64.4	96.5	1.5	78.6	607	24
Lab #0227	03-31-14	1.9	17.3	14.1	66.7	96.3	2.0	79.5	612	32
Lab #0330	04-28-14	1.3	19.2	15.5	64.0	96.8	1.4	78.1	605	22
Lab #0470	06-06-14	2.1	11.1	11.4	75.4	95.8	3.0	85.0	652	51
BOONE QUARRIES INC. - SEDALIA, COLUMBIA, MO										
Stockpile #2										
Lab #0074	02-25-14	6.2	47.4	10.3	36.1	94.5	2.3	54.1	409	25
Lab #0167	03-19-14	2.1	47.7	10.7	39.5	89.4	5.3	57.8	414	61
Lab #0298	04-17-14	5.9	56.8	7.7	29.6	88.4	6.6	48.4	342	64
Lab #0333	05-01-14	2.1	53.2	8.2	36.5	84.9	6.8	54.7	372	74
Stockpile #4										
Lab #0073	02-25-14	3.1	47.4	11.3	38.2	95.9	1.5	56.8	436	17
Lab #0166	03-19-14	3.2	46.8	9.9	40.1	96.1	1.5	57.7	444	17
Lab #0297	04-17-14	2.9	50.2	11.7	35.2	96.0	1.4	54.8	421	15
Lab #0332	05-01-14	4.2	51.6	10.6	33.6	96.5	0.8	52.9	408	8
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Stockpile #1										
Lab #0069	02-18-14	0.3	0.1	1.1	98.5	97.2	7.2	99.2	771	143
Lab #0308	04-24-14	0.0	0.5	2.4	97.1	99.3	7.9	98.7	784	156
Stockpile #2										
Lab #0068	02-18-14	3.6	47.1	9.2	40.1	95.6	2.3	57.4	439	26
Lab #0309	04-24-14	6.1	46.8	7.4	39.7	94.7	3.8	55.8	423	42
CALCIUM PRODUCTS, INC., AMES, IA										
CANTERA AGGREGATE INC, CORYDON, IA										
Stockpile #1										
Lab #0054	02-18-14	0.6	40.9	10.6	47.9	73.1	0.3	64.5	377	4
Lab #0205	03-26-14	1.5	37.9	9.1	51.5	59.1*	0.3	66.4	0	0
Lab #0316	04-23-14	0.7	39.3	8.5	51.5	62.2*	0.3	66.4	0	0
Stockpile #2										
Lab #0391	05-13-14	1.0	35.1	12.6	51.3	71.6	0.5	67.6	387	7
Lab #0421	05-22-14	0.3	37.2	13.9	48.6	70.4	0.7	66.2	373	9
CAPITAL QUARRIES CO., INC.-ARCADIA, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0188	03-26-14	0.4	49.7	12.0	37.9	97.8	11.1	57.5	450	128
Lab #0453	06-04-14	0.1	48.6	12.3	39.0	100.6	12.4	58.5	471	145
CAPITAL QUARRIES, INC.- DANVILLE, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0093	02-27-14	10.0	56.1	8.8	25.1	91.9	1.7	44.4	326	15
Lab #0195	03-27-14	0.3	57.1	10.2	32.4	90.3	0.8	52.8	381	8
Lab #0278	04-16-14	0.6	58.4	8.2	32.8	94.2	3.0	52.3	394	31
CAPITAL QUARRIES CO., INC- EUGENE, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0064	02-19-14	0.2	39.7	7.9	52.2	79.1	9.9	66.9	423	132
Lab #0364	05-06-14	0.2	37.4	9.0	53.4	76.7	9.7	68.2	418	132
CAPITAL QUARRIES CO., INC.-OWENSVIL, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0140	03-10-14	1.4	44.7	9.8	44.1	86.8	10.6	61.2	425	130
Lab #0336	04-29-14	2.6	50.1	8.7	38.6	88.2	10.6	56.3	398	119
CAPITAL QUARRIES, INC-STADIUM WEST, JEFFERSON CITY, MO										
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0075	02-24-14	6.2	36.2	7.0	50.6	89.5	11.0	63.9	457	140
Lab #0307	04-23-14	1.8	20.9	7.9	69.4	89.7	11.5	79.4	570	183
Lab #0405	05-15-14	1.6	21.4	8.9	68.1	89.6	10.8	78.8	565	170
Lab #0446	06-02-14	1.3	21.2	8.4	69.1	89.3	11.1	79.4	568	176
CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0043	02-13-14	0.1	51.8	11.9	36.2	91.0	1.7	56.3	410	19

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JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO (Continued)										
Stockpile #1										
Lab #0139	03-13-14	0.5	43.6	12.3	43.6	89.3	1.3	61.9	442	16
Lab #0235	04-09-14	1.4	40.6	11.6	46.4	92.4	1.3	63.5	469	17
Lab #0361	05-05-14	1.6	43.7	12.9	41.8	93.2	1.0	60.5	451	12
CAPITAL QUARRIES INC.-HERMANN #14, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0038	02-13-14	1.3	45.8	6.7	46.2	87.4	10.9	61.7	431	134
Lab #0197	03-28-14	1.5	46.8	8.0	43.7	89.3	10.1	60.2	430	122
Lab #0435	05-29-14	2.1	45.9	12.5	39.5	92.2	9.6	58.5	431	112
CAPITAL QUARRIES INC. -HOLTS SUMMIT, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0065	02-21-14	5.3	43.8	10.4	40.5	74.8	0.6	57.7	345	7
Lab #0141	03-11-14	7.6	47.9	8.6	35.9	76.6	0.7	53.0	325	7
Lab #0334	05-02-14	5.1	42.0	8.9	44.0	73.3	0.8	59.8	351	10
Lab #0459	06-07-14	8.4	44.0	9.0	38.6	71.3	0.7	55.0	314	8
CAPITAL QUARRIES, INC - SALEM, JEFFERSON CITY, MO										
CAPITAL QUARRIES INC-SULLIVAN, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0004	01-31-14	6.0	48.6	11.1	34.3	93.7	11.3	53.1	398	120
Lab #0184	03-25-14	6.1	44.1	13.0	36.8	97.2	11.3	55.6	433	126
CARROLL COUNTY STONE, INC., REPUBLIC, MO										
CARTHAGE CRUSHED LIMESTONE, CARTHAGE, MO										
Stockpile #1										
Lab #0096	02-26-14	0.0	4.1	3.6	92.3	94.8	0.1	95.5	724	2
Stockpile #2										
Lab #0097	02-26-14	6.4	21.3	3.4	68.9	95.1	0.1	76.3	580	2
Stockpile #3										
Lab #0098	02-26-14	0.0	0.8	1.5	97.7	95.3	0.1	98.8	753	2
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Stockpile #2										
Lab #0209	03-26-14	0.2	37.0	16.1	46.7	83.8	0.1	65.6	440	1
Lab #0251	04-11-14	0.7	32.6	14.6	52.1	91.9	0.2	69.0	507	3
Lab #0375	05-05-14	0.3	35.8	14.8	49.1	84.6	0.1	66.9	453	1
Lab #0522	06-11-14	0.6	36.4	17.0	46.0	82.0	0.1	65.3	428	1
Stockpile #4										
Lab #0208	03-26-14	0.3	2.2	12.4	85.1	80.1	0.6	93.1	597	11
Lab #0252	04-11-14	0.0	2.2	12.4	85.4	81.5	0.4	93.4	609	7
Lab #0376	05-05-14	0.0	2.4	13.1	84.5	72.5	0.1	93.0	539	2
Lab #0513	06-11-14	0.2	2.2	13.2	84.4	77.2	0.3	92.9	574	6
Stockpile #6										
Lab #0210	03-26-14	4.8	37.4	9.1	48.7	90.1	0.3	63.5	458	4
Lab #0253	04-11-14	5.3	38.2	8.7	47.8	91.8	0.3	62.6	460	4
Lab #0377	05-05-14	5.6	40.6	8.3	45.5	92.2	0.3	60.6	447	4
Lab #0514	06-11-14	5.0	38.3	9.3	47.4	91.3	0.3	62.6	457	4
CENTRAL STONE COMPANY-ANTONIA, HANNIBAL, MO										
CENTRAL STONE COMPANY - BETHEL, SHELBYVILLE, MO										
CENTRAL STONE COMPANY - FARMINGTON, FARMINGTON, MO										
Stockpile #3										
Lab #0088	02-25-14	0.0	0.5	2.6	96.9	87.0	2.9	98.6	686	57
Lab #0190	03-26-14	0.9	1.7	2.1	95.3	88.1	3.0	97.0	684	58
Lab #0454	06-04-14	0.0	0.7	1.2	98.1	90.4	2.8	99.0	716	55
CENTRAL STONE CO - FORT BELLE - #31, FLORISSANT, MO										
Stockpile #1										
Lab #0051	02-19-14	0.0	0.1	2.9	97.0	90.3	2.3	98.8	713	45
Lab #0174	03-17-14	0.0	0.1	4.2	95.7	90.7	2.0	98.2	713	39
Lab #0247	04-07-14	0.0	0.4	3.4	96.2	92.2	2.3	98.3	725	45
Lab #0407	05-12-14	0.6	0.9	3.3	95.2	92.3	2.2	97.4	719	43
CENTRAL STONE COMPANY - PARIS, PARIS, MO										
Stockpile #2										
Lab #0113	03-05-14	3.7	49.2	11.8	35.3	89.3	0.2	54.7	391	2
Lab #0181	03-25-14	4.5	48.7	12.4	34.4	88.8	0.2	54.0	384	2
Lab #0328	04-28-14	5.4	47.1	11.3	36.2	88.7	0.5	54.8	389	5
Lab #0424	05-21-14	5.3	48.1	11.1	35.5	88.5	0.3	54.2	384	3
CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO										
Stockpile #2										
Lab #0031	02-11-14	1.6	38.8	10.7	48.9	81.6	1.3	65.0	424	17
Lab #0159	03-12-14	1.9	38.9	11.6	47.6	83.4	1.5	64.3	429	19
Lab #0231	04-01-14	1.8	42.8	11.8	43.6	87.4	1.2	61.4	429	15

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		+8	-8+40	-40+60	-60				ENM	EMg
CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO (Continued)										
Stockpile #2										
Lab #0323	04-23-14	1.0	39.0	11.5	48.5	84.9	1.3	65.2	442	17
Lab #0445	05-22-14	1.4	36.8	11.7	50.1	81.6	1.4	66.3	433	19
CENTRAL STONE COMPANY - PERRY, HANNIBAL, MO										
CENTRAL STONE COMPANY - EWING, HANNIBAL, MO										
Stockpile #1										
Lab #0413	05-19-14	2.4	38.2	12.3	47.1	79.5	0.2	64.0	407	3
Lab #0520	06-11-14	1.0	39.1	13.6	46.3	79.8	0.1	64.2	410	1
CENTRAL STONE COMPANY - TAYLOR, TAYLOR, MO										
Stockpile #1										
Lab #0111	02-27-14	2.1	45.1	12.6	40.2	88.2	0.7	59.0	417	8
Lab #0182	03-24-14	2.6	45.7	12.0	39.7	85.6	0.7	58.3	399	8
Lab #0374	05-05-14	7.3	47.8	11.4	33.5	89.2	1.0	52.3	373	10
Lab #0521	06-11-14	2.8	44.2	12.6	40.4	86.6	0.7	59.0	409	8
CLEVER STONE CO, CLEVER, MO										
Stockpile #1										
Lab #0342	04-29-14	0.5	52.1	12.9	34.5	93.1	0.1	55.3	412	1
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Stockpile #1										
Lab #0006	01-29-14	0.0	12.2	15.6	72.2	95.0	0.5	84.6	643	8
COUNTY LINE QUARRY, WELLSVILLE, MO										
Stockpile #1										
Lab #0326	04-25-14	4.7	45.0	8.7	41.6	90.9	5.6	58.1	422	65
Lab #0465	05-29-14	2.5	43.8	9.9	43.8	91.2	5.3	60.7	443	64
COUNTY LINE STONE, CASSVILLE, MO										
CRAWFORD LIME & MATERIAL CO, CUBA, MO										
Stockpile #1										
Lab #0120	03-06-14	2.2	50.8	9.4	37.6	90.8	10.8	55.9	406	121
Lab #0185	03-25-14	2.5	53.6	8.0	35.9	90.5	10.8	54.1	392	117
Lab #0280	04-17-14	1.6	46.7	9.9	41.8	89.6	11.4	59.4	426	135
Lab #0415	05-21-14	2.7	40.9	9.0	47.4	88.2	11.0	63.0	445	139
Stockpile #2										
Lab #0489	05-09-14	0.0	38.9	11.3	49.8	87.2	10.8	66.3	463	143
Lab #0416	05-22-14	0.1	39.1	11.6	49.2	88.9	11.0	65.9	469	145
Lab #0448	06-02-14	0.1	41.2	11.0	47.7	87.2	10.0	64.6	451	129
CRIDER BROTHERS LIME CO., INC., EMINENCE, MO										
Stockpile #1										
Lab #0320	04-21-14	4.2	44.2	14.3	37.3	99.5	11.0	56.9	453	125
D & D SUPPLY, LONE JACK, MO										
DOSS & HARPER STONE CO., HOUSTON, MO										
Stockpile #2										
Lab #0482	06-03-14	0.5	53.1	11.5	34.9	88.6	11.0	55.1	390	121
DOSS & HARPER STONE CO, WEST PLAINS, MO										
Stockpile #1										
Lab #0277	04-16-14	0.4	52.8	8.5	38.3	78.3	9.9	56.6	355	112
Lab #0483	06-03-14	0.6	52.1	8.0	39.3	83.8	10.4	57.1	383	119
DOUBLE EAGLE AGGREGATES, MILLER, MO										
Stockpile #2										
Lab #0151	03-11-14	0.4	53.5	8.9	37.2	89.6	10.9	55.9	401	122
DOUBLE EAGLE AGGREGATES CO., INC, MILLER, MO										
Stockpile #1										
Lab #0099	02-27-14	0.2	37.3	8.0	54.5	86.8	10.3	68.6	477	141
Lab #0319	04-21-14	0.3	39.5	9.4	50.8	90.1	10.9	66.3	478	145
E & S ROCK, LLC, HOLDEN, MO										
Stockpile #2										
Lab #0047	02-19-14	1.3	44.9	11.0	42.8	71.6	1.8	60.6	347	22
Lab #0213	03-28-14	1.8	51.8	9.7	36.7	73.4	1.8	55.5	326	20
Lab #0300	04-22-14	1.5	48.6	11.3	38.6	74.8	2.2	57.5	344	25
Lab #0366	05-06-14	0.6	46.1	11.2	42.1	73.5	1.6	60.3	355	19
FISCHER QUARRY & HAULING, LLC, ST. MARY, MO										
Stockpile #1										
Lab #0087	02-25-14	1.6	49.8	14.6	34.0	95.8	0.1	55.2	423	1
Lab #0396	05-14-14	1.0	45.3	16.3	37.4	98.5	0.1	58.5	461	1
Lab #0500	06-11-14	1.0	51.7	14.8	32.5	97.9	0.1	54.3	425	1
GABEL STONE COMPANY, INC, WILLOW SPRINGS, MO										
GABEL STONE COMPANY INC., WILLOW SPRINGS, MO										
Stockpile #1										
Lab #0484	06-03-14	0.3	43.2	15.8	40.7	94.3	11.6	61.0	460	141

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		+8	-8+40	-40+60	-60				ENM	EMg
HEARTLAND MATERIALS LLC, JACKSON, MO										
Stockpile #1										
Lab #0019	01-29-14	0.2	34.2	16.5	49.1	97.2	2.0	67.6	525	27
Lab #0154	03-13-14	0.2	36.0	16.8	47.0	96.8	1.9	66.1	512	25
Lab #0383	04-30-14	0.2	35.0	17.7	47.1	96.6	2.0	66.5	514	27
HIGGINS QUARRY, LLC, LOOSE CREEK, MO										
Stockpile #2										
Lab #0022	02-06-14	0.7	44.1	10.1	45.1	93.8	11.6	62.2	467	144
Lab #0304	04-22-14	1.1	45.7	11.9	41.3	91.0	11.4	59.9	436	136
HOSTETTLER QUARRY, LLC, BUFFALO, MO										
Stockpile #1										
Lab #0010	01-28-14	3.8	46.3	8.0	41.9	82.9	10.3	58.3	386	120
Lab #0293	04-14-14	4.3	46.4	7.2	42.1	86.2	10.7	58.0	400	124
Lab #0488	06-09-14	3.6	50.1	6.3	40.0	88.0	10.4	56.3	396	117
HORN QUARRY, LLC, BRECKENRIDGE, MO										
HOUSE SPRINGS QUARRY, HOUSE SPRINGS, MO										
Stockpile #1										
Lab #0067	02-18-14	5.2	43.4	6.9	44.5	95.3	3.9	59.5	454	46
Lab #0310	04-24-14	4.8	35.8	6.5	52.9	94.5	4.4	65.8	497	58
HUNTER STONE CO, ELLSINORE, MO										
HUTCHENS CONSTRUCTION-PURDY, CASSVILLE, MO										
HUTCHENS CONSTRUCTION-EAGLE ROCK, CASSVILLE, MO										
HUTCHENS CONSTRUCTION CO-SHELL KNOB, CASSVILLE, MO										
HUTCHENS CONSTRUCTION-WASHBURN, CASSVILLE, MO										
IDEKER INC, ST JOSEPH, MO										
ILC RESOURCES, URBANDALE, IA										
JASPER STONE LLC, JASPER, MO										
Stockpile #1										
Lab #0152	03-13-14	0.3	44.1	15.1	40.5	96.3	0.2	60.6	467	2
JENKINS QUARRY, CASSVILLE, MO										
JIMMY SANDERS, INC, LEACHVILLE, AR										
JOPLIN STONE CO Q DUENWEG, JOPLIN, MO										
Stockpile #2										
Lab #0386	05-08-14	0.5	34.0	16.0	49.5	80.0	0.1	67.6	433	1
LEO JOURNAGAN CONSTRUCTION CO, INC, SPRINGFIELD, MO										
Stockpile #1										
Lab #0005	01-28-14	1.0	50.3	13.6	35.1	95.9	0.3	55.8	428	3
Lab #0341	04-29-14	2.9	50.2	13.5	33.4	96.4	0.3	54.1	417	3
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Stockpile #2										
Lab #0028	02-03-14	0.0	2.1	2.0	95.9	84.6	0.8	97.6	661	16
Lab #0107	02-26-14	0.1	1.3	1.6	97.0	84.9	1.6	98.3	668	31
Lab #0178	03-21-14	0.1	2.4	2.4	95.1	84.6	0.8	97.1	657	16
Lab #0287	04-15-14	3.1	19.6	8.9	68.4	87.9	2.4	78.6	553	38
Lab #0410	05-15-14	3.4	26.8	9.5	60.3	89.5	2.1	72.7	521	31
Lab #0518	06-11-14	0.5	5.4	2.9	91.2	86.2	1.9	94.3	650	36
Stockpile #3										
Lab #0029	02-03-14	0.9	23.9	10.2	65.0	90.1	1.3	77.1	556	20
Lab #0108	02-26-14	0.5	26.7	11.4	61.4	90.0	1.2	74.9	539	18
Lab #0179	03-21-14	0.9	26.7	10.8	61.6	89.5	1.1	74.8	535	16
Lab #0288	04-15-14	1.0	28.1	10.1	60.8	89.9	2.3	73.9	531	34
Lab #0411	05-15-14	1.4	28.1	9.3	61.2	90.2	2.7	73.8	533	40
Lab #0519	06-11-14	1.0	27.2	9.0	62.8	89.8	2.8	75.0	539	42
KEMP STONE, INC, PRYOR, OK										
KERFORD LIMESTONE CO, WEEPING WATER, NE										
Stockpile #1										
Lab #0015	01-27-14	0.0	0.0	0.0	100.0	91.8	0.5	100.0	734	10
Lab #0289	04-14-14	0.0	0.1	0.2	99.7	93.1	0.6	99.8	744	12
KING QUARRY, THAYER, MO										
KNOX COUNTY STONE CO, INC, HANNIBAL, MO										
Stockpile #2										
Lab #0175	03-18-14	5.5	42.4	11.7	40.4	91.6	2.6	58.0	425	30
Lab #0285	04-15-14	2.1	39.8	13.8	44.3	88.0	2.4	62.5	440	30
Lab #0408	05-13-14	7.5	44.3	11.5	36.7	92.5	2.4	54.7	405	26
Lab #0516	06-10-14	4.4	40.1	12.4	43.1	90.2	2.6	60.6	437	31
L & W QUARRIES, INC - CLARKDALE #8, CENTERVILLE, IA										
Stockpile #1										
Lab #0203	03-26-14	5.2	43.5	8.5	42.8	71.6	0.2	58.8	337	2
Lab #0315	04-23-14	5.3	45.4	8.2	41.1	72.7	0.3	57.4	334	3

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
L & W QUARRIES, INC - CLARKDALE #8, CENTERVILLE, IA (Continued)										
Stockpile #1										
Lab #0392	05-13-14	4.3	41.3	7.2	47.2	69.3	0.3	61.8	343	4
Lab #0420	05-22-14	2.9	44.9	8.8	43.4	70.8	0.3	59.9	339	4
L & W QUARRIES, INC - WALNUT CITY, CENTERVILLE, IA										
Stockpile #2										
Lab #0053	02-18-14	6.4	53.1	8.4	32.1	85.5	0.2	50.4	345	2
Lab #0204	03-26-14	4.9	53.0	9.3	32.8	86.4	0.2	51.6	357	2
L & W QUARRIES INC., CENTERVILLE, IA										
Stockpile #4										
Lab #0105	02-25-14	7.3	46.4	11.1	35.2	91.4	1.4	53.5	391	15
LAFARGE WEST INC.-PERRYVILLE, PERRYVILLE, MO										
Stockpile #2										
Lab #0086	02-25-14	1.6	58.2	11.4	28.8	92.4	1.6	50.2	371	16
Lab #0397	05-14-14	0.3	64.3	10.1	25.3	95.2	1.6	47.4	361	15
Lab #0499	06-11-14	0.4	53.6	13.7	32.3	95.0	1.8	53.9	410	19
LILE QUARRY INC., STRAFFORD, MO										
Stockpile #2										
Lab #0008	01-30-14	1.2	51.2	8.6	39.0	82.1	10.1	57.0	374	115
MAGRUDER LIMESTONE CO-ASHLEY, TROY, MO										
Stockpile #1										
Lab #0161	03-12-14	0.4	47.7	8.6	43.3	81.5	2.2	60.4	394	27
Lab #0463	05-28-14	0.4	51.5	8.6	39.5	82.3	2.0	57.5	379	23
Stockpile #2										
Lab #0160	03-12-14	0.2	47.3	12.1	40.4	69.2	0.6	59.5	329	7
Lab #0250	04-08-14	0.2	45.2	13.8	40.8	78.2	1.3	60.4	378	16
Lab #0371	05-01-14	0.6	44.4	12.5	42.5	79.1	1.7	61.1	387	21
MAGRUDER LIMESTONE CO, INC.-BOWLING, BOWLING GREEN, MO										
MAGRUDER LIMESTONE - FOLEY QUARRY, TROY, MO										
MAGRUDER LIMESTONE CO-FRANKFORD, TROY, MO										
Stockpile #1										
Lab #0164	03-14-14	3.9	41.5	12.8	41.8	95.6	1.5	59.9	458	18
Lab #0244	04-01-14	3.6	42.6	11.3	42.5	96.6	2.0	59.9	463	24
Lab #0324	04-24-14	4.0	43.6	11.7	40.7	98.5	3.1	58.6	462	36
Lab #0425	05-22-14	2.5	45.1	12.7	39.7	97.2	1.9	58.6	456	22
MAGRUDER LIMESTONE CO. - SHELBY, TROY, MO										
Stockpile #1										
Lab #0106	02-26-14	2.9	51.4	13.6	32.1	82.2	0.3	53.1	349	3
Lab #0176	03-19-14	3.1	52.2	12.8	31.9	85.0	0.3	52.6	358	3
Lab #0284	04-15-14	8.0	51.6	12.2	28.2	85.7	0.4	48.4	332	4
Lab #0409	05-15-14	2.6	50.8	13.4	33.2	82.5	0.4	53.9	356	4
Lab #0515	06-09-14	2.3	52.1	14.2	31.4	85.4	0.3	52.9	362	3
MAGRUDER LIMESTONE - SILEX QUARRY, TROY, MO										
Stockpile #2										
Lab #0134	03-10-14	3.8	45.4	8.0	42.8	91.5	3.3	59.0	432	39
Lab #0249	04-08-14	1.9	42.8	8.4	46.9	91.5	3.0	62.6	459	38
Lab #0372	05-02-14	3.1	43.7	7.2	46.0	91.8	3.4	61.2	450	42
Lab #0466	05-30-14	2.9	45.1	9.0	43.0	91.5	3.3	59.7	437	39
MAGRUDER LIMESTONE CO Q TROY, TROY, MO										
Stockpile #1										
Lab #0049	02-18-14	3.7	45.3	9.1	41.9	91.1	2.7	58.7	428	32
Lab #0133	03-10-14	1.8	41.7	11.5	45.0	94.9	3.3	62.3	473	41
Lab #0373	05-02-14	4.9	46.5	7.7	40.9	90.7	3.0	57.1	415	34
Lab #0467	05-30-14	2.9	43.3	11.2	42.6	96.8	2.0	60.1	466	24
MANSFIELD LIME & STONE, MANSFIELD, MO										
MARTIN MARIETTA MATERIALS OF K.C.-RANDOLPH, KANSAS CITY, MO										
Stockpile #1										
Lab #0071	02-24-14	7.0	46.7	8.8	37.5	90.3	0.4	54.5	393	4
Lab #0212	03-26-14	7.2	54.3	9.2	29.3	91.0	0.4	48.4	352	4
Lab #0268	04-16-14	5.9	51.5	8.9	33.7	91.4	0.5	51.9	380	5
Lab #0369	05-07-14	4.6	54.9	10.2	30.3	91.4	0.5	50.1	367	5
MARTIN MARIETTA MATERIALS OF K.C.-STAMPER, KANSAS CITY, MO										
Stockpile #2										
Lab #0128	03-05-14	0.0	24.3	17.4	58.3	89.9	0.8	74.8	538	12
Lab #0215	03-31-14	0.4	25.3	15.7	58.6	89.2	0.8	74.3	531	12
Lab #0351	05-02-14	0.0	25.9	17.3	56.8	92.7	0.7	73.7	546	10
Lab #0437	05-30-14	0.0	26.5	17.8	55.7	92.5	0.5	73.0	540	7
MARTIN MARIETTA MATERIALS OF K.C.-PARKVILLE, KANSAS CITY, MO										

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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-AUXVASSE, KINGDOM CITY, MO										
Stockpile #1										
Lab #0229	03-31-14	2.6	53.4	8.8	35.2	88.2	6.6	53.8	380	71
Lab #0460	05-27-14	2.7	49.1	9.5	38.7	85.6	6.2	56.7	388	70
Stockpile #3										
Lab #0033	02-14-14	2.6	50.5	10.2	36.7	89.4	5.1	55.4	397	57
Lab #0136	03-11-14	1.9	50.0	11.3	36.8	95.1	5.4	56.1	427	61
Lab #0230	03-31-14	2.3	50.5	11.2	36.0	94.8	5.5	55.3	420	61
Stockpile #5										
Lab #0462	05-27-14	10.5*	54.6	10.1	24.8	96.2	0.5	44.5	0	0
Stockpile #6										
Lab #0032	02-14-14	7.0	53.2	8.5	31.3	93.2	1.7	49.7	371	17
Lab #0135	03-11-14	6.2	52.8	9.7	31.3	94.0	1.6	50.3	378	16
Lab #0228	03-31-14	7.3	50.7	9.1	32.9	92.1	2.5	51.0	376	26
Lab #0461	05-27-14	4.9	50.8	8.7	35.6	91.9	3.5	53.5	393	37
MERTENS CONST. CO-PRESTAGE QUARRY, KINGDOM CITY, MO										
Stockpile #1										
Lab #0030	02-13-14	10.0	29.1	8.9	52.0	71.1	5.6	64.6	368	72
Lab #0045	02-18-14	8.9	31.3	7.9	51.9	70.1	6.1	64.5	362	79
Lab #0158	03-17-14	11.8*	39.8	7.0	41.4	75.9	5.6	55.6	0	0
Stockpile #2										
Lab #0236	04-09-14	6.5	41.5	6.9	45.1	74.8	6.8	59.6	357	81
Lab #0302	04-23-14	5.2	42.2	7.4	45.2	74.8	6.8	60.2	360	82
Lab #0362	05-05-14	7.7	44.9	7.0	40.4	74.5	6.7	55.8	333	75
MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO										
Stockpile #1										
Lab #0061	02-17-14	8.0	52.3	9.5	30.2	89.2	2.1	49.0	349	21
Lab #0379	05-08-14	10.5*	57.3	8.9	23.3	91.4	1.0	43.0	0	0
Lab #0501	06-12-14	8.5	53.0	9.6	28.9	90.2	1.4	47.9	346	13
Stockpile #2										
Lab #0062	02-17-14	4.7	45.2	12.7	37.4	85.7	3.8	56.3	386	43
Lab #0380	05-08-14	5.0	47.1	11.0	36.9	83.4	4.0	55.3	369	44
Lab #0502	06-12-14	8.1	46.9	10.3	34.7	87.1	4.1	52.6	367	43
MFA INC, COLUMBIA, MO										
MID-COUNTY MATERIALS, WAYNESVILLE, MO										
MID-MISSOURI LIMESTONE, INC-BIG SPR, KINGDOM CITY, MO										
Stockpile #1										
Lab #0063	02-17-14	10.3*	57.7	8.1	23.9	91.7	1.8	43.2	0	0
Lab #0196	03-27-14	8.0	58.1	8.4	25.5	92.0	0.9	45.1	332	8
Lab #0198	03-28-14	10.2*	61.2	6.6	22.0	93.5	0.2	41.3	0	0
Lab #0279	04-16-14	7.2	59.1	7.9	25.8	92.3	0.3	45.3	335	3
Lab #0281	04-17-14	9.0	56.3	8.6	26.1	95.1	0.2	45.3	345	2
Lab #0283	04-18-14	8.5	59.8	7.7	24.0	93.3	0.7	43.6	325	6
Lab #0303	04-21-14	6.4	58.4	8.6	26.6	94.5	0.2	46.4	350	2
Lab #0490	05-10-14	6.7	57.7	9.1	26.5	91.9	1.5	46.4	341	14
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Stockpile #1										
Lab #0020	02-03-14	5.1	52.3	11.7	30.9	90.0	0.1	51.0	367	1
Lab #0170	03-24-14	3.7	51.4	12.8	32.1	89.9	0.2	52.6	379	2
Lab #0311	04-28-14	3.8	52.5	12.8	30.9	92.6	0.3	51.7	383	3
Lab #0417	05-27-14	5.6	52.0	12.3	30.1	94.2	0.4	50.5	380	4
MID-MISSOURI LIMESTONE, INC.-HOUSTO, KINGDOM CITY, MO										
Stockpile #1										
Lab #0512	06-15-14	5.9	52.6	7.8	33.7	86.0	4.4	51.5	355	45
Lab #0523	06-17-14	5.3	53.0	7.5	34.2	86.9	4.2	52.0	361	44
Lab #0524	06-18-14	5.2	52.1	7.1	35.6	86.3	4.3	52.9	365	45
MID-MISSOURI LIMESTONE-RIGGS, KINGDOM CITY, MO										
Stockpile #2										
Lab #0114	03-06-14	3.8	55.8	8.3	32.1	86.6	5.5	51.0	354	56
Lab #0226	03-31-14	3.2	55.0	8.1	33.7	88.5	6.2	52.3	370	65
Lab #0329	04-28-14	4.6	55.3	7.7	32.4	88.0	6.1	50.8	358	62
Lab #0469	06-06-14	4.4	51.8	7.8	36.0	87.4	5.7	53.6	375	61
MIDWEST MINERALS, INC - FORT SCOTT, PITTSBURG, KS										
MIDWEST MINERALS INC - JASPER, PITTSBURG, KS										
MISSISSIPPI LIME COMPANY, STE. GENEVIEVE, MO										
Stockpile #1										
Lab #0084	02-25-14	0.0	0.2	0.6	99.2	97.2	0.2	99.6	775	4
Lab #0398	05-14-14	0.0	0.4	0.5	99.1	98.3	0.2	99.5	782	4
Lab #0497	06-11-14	0.0	0.2	0.5	99.3	98.8	0.2	99.7	788	4

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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
MISSISSIPPI LIME COMPANY, STE. GENEVIEVE, MO (Continued)										
Stockpile #3										
Lab #0085	02-25-14	0.0	45.9	28.3	25.8	97.8	0.3	54.3	424	3
Lab #0399	05-14-14	0.0	48.6	27.5	23.9	98.4	0.3	52.6	414	3
Lab #0498	06-11-14	0.0	41.2	29.6	29.2	99.1	0.2	57.3	454	2
MK MINERALS INC., WATHENA, KS										
Stockpile #1										
Lab #0039	02-04-14	0.0	0.6	2.3	97.1	88.3	0.6	98.6	697	12
Lab #0129	03-05-14	0.0	0.1	0.5	99.4	89.0	0.5	99.7	710	10
Lab #0216	04-02-14	0.0	0.6	2.5	96.9	88.9	0.5	98.6	701	10
Lab #0352	05-02-14	0.0	0.6	2.1	97.3	90.0	0.5	98.7	711	10
Lab #0438	05-30-14	0.0	0.8	2.1	97.1	89.3	1.3	98.6	704	26
MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA										
MORRIS ROCK, DEERFIELD, MO										
MOUNTAIN GROVE QUARRY, MANSFIELD, MO										
Stockpile #1										
Lab #0485	06-03-14	0.1	49.9	9.5	40.5	82.7	10.3	58.7	388	121
Lab #0485	06-03-14	0.1	49.9	9.5	40.5	82.7	10.3	58.7	388	121
Lab #0486	06-04-14	0.1	43.2	10.4	46.3	82.8	10.3	63.3	420	130
Lab #0486	06-04-14	0.1	43.2	10.4	46.3	82.8	10.3	63.3	420	130
NEMO SAND & GRAVEL, QUARRY, PITTSBURG, MO										
Stockpile #1										
Lab #0294	04-14-14	1.8	47.5	8.3	42.4	84.3	10.6	59.3	400	126
Lab #0476	06-02-14	1.1	45.7	9.5	43.7	80.3	10.0	60.8	391	122
NORRIS QUARRIES, LLC-AMAZONIA, AMAZONIA, MO										
NORRIS QUARRIES, LLC-BARNARD, BARNARD, MO										
Stockpile #2										
Lab #0040	02-12-14	5.0	44.6	9.6	40.8	76.3	1.3	57.7	352	15
Lab #0290	04-16-14	4.1	44.3	10.6	41.0	81.6	1.5	58.4	381	18
NORRIS QUARRIES, LLC-BETHANY, BETHANY, MO										
Stockpile #1										
Lab #0024	01-27-14	6.3	49.3	9.3	35.1	78.8	1.4	53.0	334	15
Lab #0240	04-07-14	10.0	48.4	8.8	32.8	78.5	1.5	50.2	315	15
Lab #0394	05-15-14	7.7	47.2	10.0	35.1	78.5	1.5	52.9	332	16
Lab #0473	06-03-14	9.2	47.8	9.2	33.8	77.3	1.6	51.3	317	16
NORRIS QUARRIES, LLC - BRETT, SAVANNAH, MO										
Stockpile #1										
Lab #0171	03-19-14	6.2	51.7	9.0	33.1	80.1	1.3	51.4	330	13
Lab #0349	05-01-14	4.3	52.7	9.0	34.0	90.4	1.3	52.6	380	14
Lab #0529	06-17-14	2.3	50.0	9.6	38.1	80.1	1.5	56.4	361	17
NORRIS QUARRIES, LLC-BLUE MOUND, DAWN, MO										
Stockpile #1										
Lab #0439	05-28-14	1.0	45.9	11.2	41.9	72.9	0.9	60.1	350	11
Lab #0441	05-29-14	0.7	41.7	11.2	46.4	62.3*	0.8	63.5	0	0
Lab #0442	05-30-14	1.3	44.1	10.2	44.4	54.9*	0.8	61.5	0	0
NORRIS QUARRIES, LLC-GALLATIN, GALLATIN, MO										
NORRIS QUARRIES, LLC- GOODEN, RAVENWOOD, MO										
NORRIS QUARRIES, LLC - EAST, HUNTSVILLE, MO										
Stockpile #2										
Lab #0056	02-19-14	5.9	53.7	11.4	29.0	90.9	0.1	49.3	358	1
Lab #0109	03-04-14	3.9	52.1	12.4	31.6	92.1	0.2	52.1	384	2
Lab #0357	04-29-14	4.4	53.7	11.2	30.7	94.9	1.9	50.8	386	19
Lab #0418	05-19-14	3.5	50.0	12.8	33.7	95.5	1.7	53.9	412	18
Lab #0503	06-09-14	4.4	54.7	11.7	29.2	95.7	1.6	49.9	382	16
NORRIS QUARRIES, LLC-JEFFRIES, SAVANNAH, MO										
NORRIS QUARRIES, LLC-MAITLAND, MAITLAND, MO										
Stockpile #3										
Lab #0100	02-24-14	3.1	46.7	11.6	38.6	85.7	0.7	57.2	392	8
Lab #0202	03-24-14	2.9	47.5	11.9	37.7	86.5	0.6	56.7	392	7
Lab #0348	05-01-14	4.3	48.2	11.6	35.9	85.8	0.6	54.9	377	7
Lab #0508	06-09-14	3.0	49.4	11.0	36.6	84.8	0.7	55.6	377	8
NORRIS QUARRIES, LLC-PRINCETON, PRINCETON, MO										
Stockpile #4										
Lab #0027	01-31-14	5.3	52.7	8.7	33.3	79.0	1.7	51.7	327	18
Lab #0206	03-27-14	9.4	48.2	7.8	34.6	76.1	1.6	51.3	312	16
Lab #0317	04-25-14	6.2	50.9	9.3	33.6	82.8	1.5	51.9	344	16
Lab #0390	05-13-14	6.9	50.8	9.6	32.7	85.3	1.4	51.2	349	14

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		+8	-8+40	-40+60	-60				ENM	EMg
NORRIS QUARRIES, LLC- TRENTON, TRENTON, MO										
Stockpile #3										
Lab #0052	02-17-14	2.1	51.8	11.1	35.0	90.3	0.9	54.6	395	10
Lab #0055	02-18-14	2.4	53.9	10.0	33.7	90.7	0.8	53.2	386	9
Lab #0060	02-20-14	2.0	53.3	10.6	34.1	89.3	0.7	53.8	384	8
Lab #0207	03-28-14	2.0	53.4	10.3	34.3	90.1	0.8	53.8	388	9
Lab #0318	04-25-14	1.8	53.0	10.4	34.8	90.6	0.9	54.3	393	10
Lab #0395	05-15-14	2.6	55.2	9.3	32.9	91.4	0.9	52.3	382	9
OAKLEY FERTILIZER, INC, NORTH LITTLE ROCK, AR										
OSAGE QUARRIES, INC, KINGDOM CITY, MO										
PELLETIZING COMPANY INC, GORDONSVILLE, TN										
PHENIX ROCK, ASH GROVE, MO										
PRAIRIE CREEK TERMINAL SERVICES INC, ELWOOD, IL										
RAY COUNTY STONE, RAYVILLE, MO										
Stockpile #1										
Lab #0001	01-29-14	4.8	54.7	8.7	31.8	71.7	0.4	50.7	291	4
Lab #0094	02-27-14	5.9	55.6	7.3	31.2	72.5	0.5	49.5	287	5
RAY COUNTY STONE-EE QUARRY, RICHMOND, MO										
Stockpile #1										
Lab #0095	02-27-14	9.2	58.2	8.4	24.2	83.3	0.6	43.8	292	5
Lab #0269	04-16-14	7.5	54.8	7.8	29.9	85.1	0.6	48.3	329	6
Lab #0368	05-07-14	7.6	57.3	8.7	26.4	85.7	0.6	45.9	315	6
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Stockpile #3										
Lab #0173	03-21-14	2.7	10.7	18.9	67.7	93.7	11.8	81.7	613	193
Lab #0242	04-07-14	3.8	17.4	26.0	52.8	98.6	11.8	72.8	574	172
Lab #0388	05-15-14	3.3	15.0	25.7	56.0	98.9	11.8	75.2	595	177
Lab #0471	06-04-14	3.0	15.0	28.4	53.6	97.9	12.2	74.4	583	182
Stockpile #4										
Lab #0389	05-15-14	5.8	19.7	31.9	42.6	100.0	12.4	66.7	533	165
Lab #0472	06-04-14	12.8*	18.7	30.4	38.1	99.1	12.3	61.0	0	0
SCHILDBERG CONST. CO.-DECATUR, GREENFIELD, IA										
SCHILDBERG CONST. CO.-GRAHAM MO Q, GREENFIELD, IA										
Stockpile #4										
Lab #0255	04-09-14	5.8	52.6	10.5	31.1	90.0	0.5	50.6	364	5
Lab #0291	04-16-14	7.6	51.1	9.3	32.0	89.1	0.7	50.4	359	7
Lab #0354	05-01-14	6.6	51.3	10.2	31.9	89.5	0.5	50.8	364	5
Lab #0436	05-19-14	5.5	51.4	11.2	31.9	88.7	0.7	51.5	365	7
Lab #0507	06-09-14	0.3	47.4	12.7	39.6	87.4	0.5	59.1	413	6
SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA										
Stockpile #1										
Lab #0506	06-05-14	6.2	51.4	9.6	32.8	89.1	0.9	51.4	366	9
Lab #0509	06-11-14	5.5	48.7	10.3	35.5	86.8	1.6	53.9	374	17
Lab #0530	06-17-14	8.4	52.9	9.4	29.3	89.2	1.3	48.2	344	13
SCHILDBERG CONST. CO.-WATTERSON, GREENFIELD, IA										
SHAWNEE STONE - CYPRESS PLANT, CYPRESS, IL										
SHAWNEE STONE - JONESBORO PLANT, ANNA, IL										
SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO										
Stockpile #1										
Lab #0046	02-18-14	5.5	45.4	7.6	41.5	85.9	10.5	57.4	395	121
Lab #0157	03-17-14	7.5	38.7	10.6	43.2	83.2	10.3	59.2	394	122
Lab #0237	04-09-14	0.0	12.4	14.4	73.2	80.0	9.5	84.9	544	161
Lab #0301	04-23-14	7.2	49.1	10.9	32.8	76.1	9.5	51.6	314	98
Lab #0363	05-05-14	5.3	46.4	7.3	41.0	80.6	9.8	57.0	367	112
SKYLINE MATERIALS - NEWARK, NEWARK, MO										
Stockpile #3										
Lab #0177	03-21-14	0.9	40.8	9.0	49.3	90.8	2.6	64.9	471	34
Lab #0286	04-15-14	0.4	38.8	9.1	51.7	89.9	3.0	66.9	481	40
Lab #0517	06-11-14	0.8	43.1	10.6	45.5	92.7	1.2	62.6	465	15
SKYLINE MATERIALS-GLASGOW, GLASGOW, MO										
SOUTH CENTRAL COOP, CAINSVILLE, MO										
Stockpile #3										
Lab #0059	02-20-14	0.0	0.6	1.7	97.7	92.8	0.1	98.9	734	2
SMASAL AGGREGATE, LINCOLN, MO										
Stockpile #1										
Lab #0042	02-12-14	0.8	42.6	13.1	43.5	88.6	0.4	62.0	440	5
Lab #0263	04-08-14	0.5	47.1	14.8	37.6	96.4	0.7	58.3	449	8

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
SPRINGFIELD AGGREGATE SUPPLY, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0150	03-10-14	0.1	0.7	1.1	98.1	94.7	0.4	98.9	750	8
Lab #0428	05-23-14	0.0	0.6	1.2	98.2	96.5	0.3	99.1	765	6
SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO										
S-S-S INC, LOUISIANA, MO										
Stockpile #1										
Lab #0048	02-17-14	5.3	48.0	10.4	36.3	95.4	0.3	54.5	416	3
Lab #0163	03-14-14	5.9	45.9	10.3	37.9	94.7	0.5	55.6	421	6
Lab #0245	04-03-14	3.6	47.0	10.2	39.2	94.9	0.2	57.1	433	2
Lab #0325	04-24-14	4.4	46.2	11.8	37.6	95.3	0.3	56.2	429	3
Lab #0464	05-28-14	1.7	45.5	11.9	40.9	95.4	0.8	59.4	453	10
STOCKMAN QUARRY, LLC, JEFFERSON CITY, MO										
STRACK STONE, CAPE GIRARDEAU, MO										
Stockpile #3										
Lab #0504	06-09-14	0.2	27.9	21.6	50.3	92.6	2.3	70.2	520	32
STRACK STONE - FRUITLAND, JACKSON, MO										
STRACK STONE CO. - LODI, LLC, CAPE GIRARDEAU, MO										
Stockpile #1										
Lab #0505	06-09-14	3.5	8.5	16.3	71.7	100.5	12.3	83.6	672	206
T&M STONE QUARRY, LLC, WHITEWATER, MO										
Stockpile #1										
Lab #0322	04-17-14	0.2	40.0	15.9	43.9	93.0	11.8	63.4	472	150
Stockpile #2										
Lab #0214	03-31-14	0.7	48.6	11.8	38.9	91.2	10.4	58.1	424	121
Lab #0321	04-25-14	0.3	51.0	11.7	37.0	94.6	11.9	56.8	430	135
TABLE ROCK ASPHALT CONST CO INC, BRANSON, MO										
TAYLOR QUARRIES, LOCKWOOD, MO										
TOWER ROCK STONE CO, SCOTT CITY, MO										
Stockpile #1										
Lab #0153	03-13-14	6.3	48.6	10.6	34.5	92.8	2.1	53.0	394	22
Lab #0243	04-10-14	6.7	48.0	10.4	34.9	94.6	1.7	53.1	402	18
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Stockpile #1										
Lab #0080	02-25-14	0.3	53.9	11.3	34.5	94.1	0.7	54.8	412	8
Lab #0400	05-14-14	0.0	46.6	13.6	39.8	96.2	1.2	59.6	459	14
Lab #0493	06-11-14	0.0	43.1	16.0	40.9	96.6	0.8	61.3	474	10
Stockpile #2										
Lab #0081	02-25-14	0.1	35.9	14.2	49.8	94.2	3.7	67.3	507	50
Lab #0401	05-14-14	0.1	37.4	15.2	47.3	95.8	3.2	65.8	504	42
Lab #0494	06-11-14	0.7	40.8	13.6	44.9	96.1	2.2	63.3	486	28
Stockpile #3										
Lab #0082	02-25-14	1.6	46.3	15.4	36.7	96.5	0.3	57.5	444	3
Lab #0403	05-14-14	1.3	43.2	18.5	37.0	98.0	0.2	58.9	462	2
Lab #0495	06-11-14	0.9	41.8	16.0	41.3	98.8	0.2	61.4	485	2
Stockpile #5										
Lab #0083	02-25-14	9.0	51.9	8.8	30.3	88.4	0.4	48.6	343	4
Lab #0404	05-14-14	7.5	49.5	10.8	32.2	92.6	0.4	51.1	378	4
Lab #0496	06-11-14	7.8	50.4	8.6	33.2	94.9	0.3	51.0	387	3
TRAGER LIMESTONE-NETTLETON, CHILLICOTHE, MO										
Stockpile #1										
Lab #0110	02-25-14	1.2	47.2	9.7	41.9	78.1	1.0	59.5	372	12
Lab #0276	04-18-14	0.3	54.5	10.4	34.8	76.9	1.5	54.7	336	16
Lab #0440	05-29-14	0.5	52.5	11.2	35.8	81.4	1.1	55.6	362	12
TRAGER LIMESTONE LLC-GALLATIN, CHILLOTHIE, MO										
Stockpile #1										
Lab #0172	03-20-14	0.0	56.2	10.8	33.0	77.4	0.8	53.5	331	9
Lab #0356	04-28-14	0.0	54.8	13.0	32.2	88.8	0.2	53.7	381	2
TRI COUNTY WATER AUTHORITY, INDEPENDENCE, MO										
Stockpile #1										
Lab #0070	02-24-14	0.3	22.1	23.7	53.9	98.6	0.7	73.6	581	10
Lab #0211	03-26-14	0.1	1.0	0.7	98.2	87.8	1.5	98.9	694	30
Lab #0267	04-16-14	0.0	1.1	1.0	97.9	87.0	1.7	98.8	687	34
Lab #0370	05-07-14	0.6	39.4	31.3	28.7	102.7	0.4	57.3	471	5
UNITED SUPPLIERS, ELDORA, IA										
WADE AG PRODUCTS-MAIN OFC, LACYGNE, KS										
Stockpile #2										
Lab #0013	01-29-14	5.4	50.4	9.3	34.9	89.3	0.5	53.1	379	5
Lab #0260	04-07-14	9.4	51.8	8.6	30.2	92.6	1.2	48.3	358	12

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AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JANUARY 1 THROUGH JUNE 30, 2014

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
WADE AG PRODUCTS Q DREXEL, LACYGNE, KS										
WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO										
Stockpile #1										
Lab #0091	02-25-14	0.6	37.7	15.1	46.6	97.6	11.8	65.1	508	154
Lab #0186	03-26-14	0.3	38.5	14.0	47.2	100.0	11.6	65.2	522	151
Lab #0451	06-04-14	0.3	36.3	14.4	49.0	100.0	11.9	66.7	534	159
FRED WEBER INC.-AUBURN QUARRY, MARYLAND HEIGHTS, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Stockpile #1										
Lab #0050	02-19-14	2.9	18.6	9.0	69.5	87.9	1.8	79.6	559	29
Lab #0183	03-17-14	2.7	20.5	7.7	69.1	88.3	2.2	78.8	557	35
Lab #0246	04-07-14	1.9	25.3	8.5	64.3	86.1	1.4	75.7	522	21
Lab #0406	05-12-14	2.0	21.9	8.8	67.3	88.0	2.3	78.1	550	36
FRED WEBER, INC - FESTUS STONE, FESTUS, MO										
FRED WEBER, INC - FOLEY QUARRY, MARYLAND HEIGHTS, MO										
FRED WEBER, INC.-NEW MELLE STONE, NEW MELLE, MO										
Stockpile #2										
Lab #0118	03-05-14	9.3	16.5	10.4	63.8	94.7	2.4	74.2	562	36
Lab #0449	06-03-14	0.7	6.0	9.1	84.2	96.5	3.0	91.2	704	55
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Stockpile #1										
Lab #0116	03-04-14	0.2	14.6	16.2	69.0	91.9	1.6	82.4	606	26
Lab #0194	03-27-14	1.0	15.1	16.1	67.8	91.5	1.6	81.2	595	26
Lab #0339	05-01-14	0.9	10.6	10.4	78.1	92.4	2.9	87.0	643	50
FRED WEBER, INC. - SOUTH STONE, ST. LOUIS, MO										
Stockpile #1										
Lab #0117	03-04-14	0.2	13.5	14.1	72.2	89.4	1.5	84.0	601	25
Lab #0193	03-27-14	0.5	16.8	15.3	67.4	89.8	1.6	80.8	580	26
Lab #0340	05-01-14	0.4	16.1	13.8	69.7	90.4	2.3	82.0	593	38
WHITE ROCK QUARRIES OF LINCOLN CO, ELSBERRY, MO										
Stockpile #1										
Lab #0162	03-13-14	7.9	49.0	10.2	32.9	92.0	0.3	51.3	377	3
Lab #0248	04-08-14	8.8	49.4	9.8	32.0	92.1	0.5	50.2	370	5
Lab #0378	05-08-14	9.6	48.7	10.4	31.3	93.7	0.3	49.7	373	3
Lab #0468	06-05-14	9.2	50.4	9.7	30.7	91.0	0.7	49.1	358	7
WIELAND HAULING INC.- JEFFRIES, BETHANY, MO										
WIELAND HAULING INC.-MERCER, BETHANY, MO										
WILKERSON BROS QUARRY, PARIS, MO										
Stockpile #3										
Lab #0112	03-05-14	1.1	48.6	12.9	37.4	85.5	0.7	57.3	392	8
Lab #0180	03-25-14	1.3	50.9	12.9	34.9	85.6	0.3	55.4	379	3
Lab #0327	04-28-14	0.7	42.9	13.5	42.9	88.3	1.3	61.7	436	16
Lab #0423	05-21-14	0.8	46.9	13.4	38.9	89.7	0.9	58.7	421	11
WILLARD ASPHALT - #18 SLEEPER, LEBANON, MO										
Stockpile #1										
Lab #0220	03-31-14	0.0	0.3	1.4	98.3	85.5	9.9	99.2	679	196
WILLARD ASPHALT PAVING,- #19, LEBANON, MO										
Stockpile #1										
Lab #0078	02-24-14	0.0	0.1	0.8	99.1	87.5	10.9	99.6	697	217
Lab #0338	04-30-14	0.5	0.5	2.0	97.0	86.2	10.5	98.3	678	206
WILLARD QUARRY-SLEEPER, LEBANON, MO										
Stockpile #1										
Lab #0219	03-31-14	0.7	36.2	14.3	48.8	89.2	10.3	66.4	474	137
WILLARD QUARRIES- ST ROBERT, LEBANON, MO										
Stockpile #1										
Lab #0077	02-24-14	0.4	41.0	20.7	37.9	94.6	11.8	60.6	458	143
Lab #0337	04-30-14	0.3	40.0	19.5	40.2	96.0	11.7	61.9	475	145
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JANUARY 1 THROUGH JUNE 30, 2014

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
AGRISERVICE OF BRUNSWICK, L.L.C., BRUNSWICK, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0132	03-10-14	2.6	20.3	10.7	66.4	85.7	1.7	77.9	534	26
J. ECKSTEIN ENTERPRISES, BEAUFORT, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0168	03-21-14	1.4	26.3	8.8	63.5	88.5	2.4	75.4	534	36
SCHERMEIER QUARRY, AUGUSTA, MO										
Lab #0169	03-21-14	36.1*	38.5	5.3	20.1	89.7	10.9	32.9	0	0
FARMER'S COOP #280, FREEBURG, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0021	02-06-14	2.1	21.0	8.7	68.2	88.0	2.0	78.7	554	31
FARMERS PRODUCERS EXCHANGE-CONWAY, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0199	03-24-14	0.1	12.6	16.8	70.5	96.3	0.6	83.7	645	10
TRAVIS FENICAL, BLACKWATER, MO										
BOONE QUARRIES - EAST, COLUMBIA, MO										
Lab #0121	03-06-14	18.5*	41.0	8.9	31.6	96.6	1.8	47.2	0	0
HELENA CHEMICAL COMPANY-HARRIS, NEWTOWN, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0025	01-28-14	0.0	1.0	2.7	96.3	80.5	0.5	98.2	632	10
Lab #0475	06-05-14	0.0	0.8	1.8	97.4	87.4	0.6	98.7	690	12
JEFFCO FERTILIZER, DESOTO, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0457	06-04-14	1.8	23.3	8.7	66.2	89.4	2.8	77.2	552	43
LOHMAN PRODUCERS EXCHANGE, LOHMAN, MO										
MFA INC, COLUMBIA, MO										
Lab #0131	03-07-14	3.3	13.7	8.1	74.9	86.6	1.8	83.2	576	30
Lab #0365	05-06-14	2.8	17.2	9.3	70.7	86.6	1.6	80.6	558	26
MFA EXCHANGE, CHAMOIS, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Lab #0037	02-13-14	0.2	8.4	12.9	78.5	89.9	2.2	88.3	635	39
MFA EXCHANGE, META, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0036	02-12-14	1.0	27.7	9.0	62.3	89.6	2.2	74.6	535	33
MFA AGRI SERVICE, BROOKFIELD, MO										
MFA INC, COLUMBIA, MO										
Lab #0419	05-21-14	3.0	22.7	8.9	65.4	87.3	3.1	76.4	534	47
MFA AGRI SERVICE, JEFFERSON CITY, MO										
MFA INC, COLUMBIA, MO										
Lab #0142	03-11-14	2.2	19.5	9.0	69.3	86.8	1.9	79.6	553	30
Lab #0432	05-27-14	1.3	26.6	9.8	62.3	89.4	2.2	74.8	535	33
FARMERS PRODUCE EXCHANGE, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0218	03-31-14	0.4	10.8	12.0	76.8	97.4	0.2	86.7	676	3
MFA AGRI SERVICES, LINEVILLE, IA										
MFA INC, COLUMBIA, MO										
Lab #0422	05-22-14	4.1	17.2	10.3	68.4	86.8	1.7	78.9	548	27
MFA AGRI SERVICE, ODESSA, MO										
MFA INC, COLUMBIA, MO										
Lab #0002	01-30-14	2.4	25.0	10.3	62.3	84.6	2.4	74.7	506	36
MFA AGRI SERVICE, OWENSVILLE, MO										
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Lab #0035	02-10-14	0.1	0.3	1.1	98.5	97.9	7.3	99.2	777	145
Lab #0239	04-08-14	0.0	0.3	0.9	98.8	98.6	6.9	99.4	784	137
MFA INC, COLUMBIA, MO										
Lab #0034	02-10-14	2.4	21.3	9.0	67.3	88.6	2.1	78.0	553	33
MFA AGRI SERVICES, ROLLA, MO										
MFA INC, COLUMBIA, MO										
Lab #0076	02-24-14	3.4	15.9	7.3	73.4	86.5	1.9	81.8	566	31
Lab #0447	06-02-14	0.7	25.5	9.2	64.6	87.1	1.6	76.5	533	24
MFA AGRI SERVICE, ST CLAIR, MO										
MFA INC, COLUMBIA, MO										
Lab #0066	02-18-14	0.0	0.4	1.9	97.7	91.6	0.1	98.9	725	2
MFA AGRI SERVICE INC,-BULK PLANT, SALEM, MO										
MFA INC, COLUMBIA, MO										
Lab #0305	04-23-14	3.0	12.3	6.7	78.0	88.1	2.1	85.1	600	36
MFA EXCHANGE, SALEM, MO										
WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO										
Lab #0306	04-23-14	2.5	23.1	7.6	66.8	89.4	11.1	77.1	552	171

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JANUARY 1 THROUGH JUNE 30, 2014

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, WASHINGTON, MO										
MFA INC, COLUMBIA, MO										
Lab #0434	05-28-14	2.9	24.9	9.1	63.1	91.2	2.6	74.8	546	39
MIDWEST FERTILIZER, METZ, MO										
MK MINERALS, INC., WAMEGO, KS										
Lab #0265	04-09-14	0.0	0.6	2.6	96.8	89.8	0.5	98.5	708	10
LEO O'LAUGHLIN, MACON, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #0057	02-19-14	3.4	42.5	11.8	42.3	87.3	0.3	60.0	419	4
Lab #0155	03-13-14	3.3	39.5	12.2	45.0	88.7	0.5	62.2	441	6
Lab #0270	04-15-14	2.4	37.1	11.5	49.0	89.2	0.8	65.2	465	10
Lab #0381	05-08-14	2.4	19.5	15.7	62.4	95.6	1.7	76.7	587	26
LEO O'LAUGHLIN INC, MARCELINE, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #0058	02-19-14	5.0	48.9	11.1	35.0	87.7	0.2	53.9	378	2
Lab #0271	04-15-14	2.3	32.9	13.0	51.8	89.8	0.7	67.8	487	9
Lab #0382	05-08-14	2.0	19.2	15.1	63.7	96.1	1.8	77.6	596	28
R & M FEED, POTOSI, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0187	03-26-14	2.3	24.4	9.5	63.8	88.4	2.6	75.6	535	39
SCHAEFERKOETTER STORE, MT STERLING, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Lab #0238	04-08-14	0.3	15.2	14.3	70.2	90.2	1.6	82.6	596	26
Lab #0335	04-29-14	1.5	13.9	12.7	71.9	93.3	2.1	83.0	619	35
SKYLINE MATERIALS, LA PLATA, MO										
SKYLINE MATERIALS - NEWARK, NEWARK, MO										
Lab #0225	04-03-14	3.2	39.0	9.4	48.4	90.5	1.2	63.8	462	15
Lab #0358	04-30-14	0.6	38.8	9.2	51.4	89.6	3.0	66.6	478	40
Lab #0393	05-14-14	0.3	39.3	9.0	51.4	90.2	2.9	66.6	481	39
Lab #0474	06-04-14	0.4	37.2	8.2	54.2	89.9	2.9	68.4	492	40
SKYLINE MATERIALS - NEWARK, NEWARK, MO										
Lab #0156	03-17-14	5.6	37.3	7.7	49.4	90.7	1.2	63.3	460	15
LEBANON FARM CENTER, LEBANON, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0217	03-31-14	5.6	17.1	9.8	67.5	88.1	2.2	77.7	547	34
WASHINGTON COUNTY FARM SUPPLY, BELGRADE, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #0189	03-26-14	2.6	21.6	9.5	66.3	88.3	2.5	77.4	547	39
Lab #0452	06-04-14	2.5	20.2	9.7	67.6	89.0	2.0	78.5	559	31
WEST CENTRAL AGRI SERVICE, LLC, CENTERVIEW, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0299	04-22-14	4.2	17.9	8.8	69.1	88.3	2.4	78.9	557	38
WHITWORTH AG SPECIALTIES, WORTHINGTON, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0026	01-29-14	0.2	2.6	3.2	94.0	86.4	0.8	96.6	667	15

Permit # _____

MISSOURI

APPLICATION FOR PERMIT TO SELL AGRICULTURAL LIMING MATERIALS

FOR FISCAL YEAR BEGINNING JULY 1, _____ TO JUNE 30, _____

TO: DIRECTOR MO. AGRICULTURAL EXPERIMENT STATION
Fertilizer/Ag Lime Control Service,
University of Missouri-Columbia
COLUMBIA, MO 65211-8080

The following information and certification is hereby submitted for a permit to sell agricultural liming materials in the state of Missouri under the provisions of the Missouri Agricultural Liming Materials Law, RSMo 266.500 to 266.550.

APPLICANT (Firm Name) _____

MAILING ADDRESS _____ PHONE _____

CITY _____ STATE _____ ZIP _____

1. KIND OF PLANT: QUARRY _____ PERMANENT _____ PORTABLE _____ STOCKPILE _____

2. SAMPLE INVOICE:

Submit sample invoice showing a billing of a lot of agricultural liming material including the following information.

- (a) Name and address of manufacturer, producer, or shipper
- (b) Name, brand, or trademark
- (c) Net weight of lot
- (d) Guarantee of lbs. effective magnesium per ton
Guarantee of lbs. effective neutralizing material per ton
- (e) Inspection fee-@ 6 cents per ton

3. EXACT LOCATION AND DIRECTIONS TO PLANT:

4. PERMIT FEE \$100.00 PAYABLE: Director, Missouri Agricultural
Experiment Station

For and on behalf of the applicant, I, the undersigned, acting as his authorized legal representative hereby certify that I have read the Missouri Agricultural Liming Materials Laws and will comply with it in all respects.

E-Mail Address _____ SIGNED _____

DATE _____

(Please type name & title)

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)

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

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)

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

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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This report also available on the web at:

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