

**Missouri
Agricultural Liming
Materials Report**

July 1 to December 31, 2013

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 750 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. Thirty six deficient samples are reported, thirty one for excessive coarseness, five for low CCE. There were ten "stop sale" order's issued against producer stockpiles: nine for excessive coarseness, and one for failure to secure a permit.

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

* PRELIMINARY ESTIMATE

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2013

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										
ADRIAN QUARRY LLC, CLINTON, MO										
Stockpile #1										
Lab #0799	09-10-13	14.6*	44.2	7.7	33.5	89.4	0.5	49.2	0	0
Lab #0819	09-16-13	8.6	42.5	9.5	39.4	89.4	0.5	55.7	399	6
Lab #0966	10-15-13	9.2	40.1	9.2	41.5	88.8	0.5	57.0	405	6
Lab #1184	12-03-13	11.6*	43.2	8.8	36.4	85.5	0.5	52.5	0	0
Lab #1240	12-09-13	13.1*	40.9	8.1	37.9	88.9	0.5	53.0	0	0
Stockpile #2										
Lab #0967	10-15-13	8.4	38.0	10.1	43.5	87.2	0.4	59.1	412	5
Lab #1185	12-03-13	10.1*	44.8	8.9	36.2	90.1	0.4	52.7	0	0
Lab #1241	12-09-13	10.9*	43.0	9.1	37.0	90.0	0.5	53.2	0	0
Stockpile #3										
Lab #1186	12-03-13	12.1*	44.5	8.7	34.7	90.9	0.6	51.0	0	0
Lab #1242	12-09-13	12.5*	44.4	8.9	34.2	90.9	0.6	50.6	0	0
ALBY QUARRY, CARLINVILLE, IL										
ALLEN QUARRIES INC, LOCKWOOD, MO										
Stockpile #1										
Lab #0546	08-06-13	1.3	50.6	11.9	36.2	92.0	0.2	56.0	412	2
Lab #1095	11-06-13	0.8	49.2	14.3	35.7	94.3	0.5	56.6	427	6
AMERICAN ROCK, LLC, BRANSON, MO										
APAC - KANSAS, INC. - CAMERON, PLATTSBURG, MO										
Stockpile #2										
Lab #0522	08-01-13	0.1	48.4	11.2	40.3	84.5	1.2	59.1	400	14
Lab #0581	08-06-13	0.5	36.6	13.1	49.8	81.9	1.3	66.8	438	17
Lab #0603	08-14-13	1.0	35.9	13.6	49.5	81.2	1.3	66.6	433	17
Lab #0668	08-22-13	0.2	39.9	13.5	46.4	81.3	1.2	64.5	419	15
Lab #0730	09-06-13	0.7	28.8	15.3	55.2	79.1	1.2	71.6	453	17
Lab #0897	09-26-13	0.0	36.1	14.0	49.9	73.5	1.9	67.3	396	26
Lab #0965	10-17-13	0.3	53.6	10.8	35.3	71.8	2.1	55.2	317	23
APAC - KANSAS, INC. - GOWER, PLATTSBURG, MO										
Stockpile #3										
Lab #0521	08-01-13	0.4	49.5	10.3	39.8	77.8	0.8	58.4	363	9
Lab #0690	08-30-13	0.2	48.9	10.6	40.3	76.9	0.8	58.9	362	9
Lab #0904	10-02-13	0.3	53.0	10.3	36.4	77.3	0.9	55.8	345	10
Lab #1153	11-27-13	0.8	49.9	10.0	39.3	78.3	0.9	57.8	362	10
APAC - KANSAS, INC. - KINGSTON, PLATTSBURG, MO										
Stockpile #1										
Lab #0565	08-05-13	3.3	45.4	11.0	40.3	86.7	0.7	58.3	404	8
Lab #0927	10-09-13	3.8	48.2	9.9	38.1	88.8	1.2	56.1	398	13
Lab #1123	11-12-13	7.0	46.3	8.7	38.0	84.0	0.8	54.8	368	9
Stockpile #2										
Lab #0566	08-05-13	1.4	48.0	12.2	38.4	84.4	0.6	57.7	390	7
Lab #0928	10-09-13	1.5	45.4	12.0	41.1	84.5	0.6	59.7	403	7
Lab #1124	11-12-13	1.6	50.0	11.7	36.7	83.5	0.6	56.2	376	7
Stockpile #3										
Lab #0567	08-05-13	0.2	30.7	18.5	50.6	84.0	0.7	69.4	466	10
Lab #0929	10-09-13	0.3	29.1	19.5	51.1	82.8	0.7	70.1	464	10
Lab #1125	11-12-13	0.4	23.7	18.3	57.6	80.2	0.6	74.5	478	9
Stockpile #4										
Lab #1175	12-04-13	1.2	34.9	14.3	49.6	82.1	0.7	66.9	439	9
Lab #1247	12-17-13	1.4	37.4	13.6	47.6	82.2	0.6	65.1	428	8
Lab #1248	12-19-13	1.4	36.4	12.9	49.3	82.3	0.6	66.1	435	8
APAC-KANSAS, INC - HARRISONVILLE, HARRISONVILLE, MO										
Stockpile #2										
Lab #0691	08-26-13	9.9	51.2	7.6	31.3	89.8	0.3	48.7	350	3
Lab #1057	10-28-13	10.6*	50.0	8.2	31.2	90.6	0.4	48.6	0	0
Lab #1243	12-11-13	13.3*	50.3	6.9	29.5	90.0	0.3	46.2	0	0
APAC - KANSAS, INC. - LATHROP, PLATTSBURG, MO										
Stockpile #1										
Lab #0582	08-06-13	0.3	37.8	15.2	46.7	71.4	1.5	65.3	373	20
Lab #0604	08-14-13	0.0	33.1	16.0	50.9	69.0	1.5	68.8	380	21
Lab #0899	09-27-13	0.0	35.2	16.8	48.0	69.1	1.5	66.9	370	20
Lab #1152	11-27-13	0.3	41.2	14.4	44.1	67.6	1.4	63.0	341	18
Stockpile #2										
Lab #0584	08-06-13	0.4	48.2	12.1	39.3	83.7	0.8	58.6	392	9
Lab #0898	09-27-13	0.2	47.1	12.4	40.3	86.7	0.7	59.5	413	8
Lab #1151	11-27-13	0.2	48.8	12.0	39.0	82.7	0.8	58.4	386	9

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JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
APAC - KANSAS, INC. - LATHROP, PLATTSBURG, MO (CONTINUED)										
Stockpile #4										
Lab #0583	08-06-13	0.1	53.4	11.5	35.0	71.3	1.4	55.3	315	15
Lab #0605	08-14-13	0.1	52.0	11.4	36.5	70.4	1.4	56.3	317	16
Stockpile #5										
Lab #1150	11-27-13	0.2	57.7	9.9	32.2	72.8	1.3	52.6	306	14
Lab #1189	12-04-13	0.2	57.8	10.5	31.5	73.5	1.3	52.3	307	14
Lab #1223	12-10-13	0.1	50.0	12.2	37.7	74.5	1.5	57.5	343	17
APAC - KANSAS, INC. - STANBERRY, PLATTSBURG, MO										
Stockpile #5										
Lab #0805	09-09-13	21.2*	38.1	6.5	34.2	73.8	1.8	47.6	0	0
APAC-CENTRAL INC.-N.HARRISON QUARRY, FAYETTEVILLE, AR										
APAC-CENTRAL INC. -VALLEY SPRINGS, FAYETTEVILLE, AR										
APAC-MISSOURI, INC - BAGNELL 13, OVERLAND PARK, KS										
Stockpile #1										
Lab #0692	08-27-13	4.1	41.8	14.4	39.7	94.4	10.7	58.8	444	126
Lab #0872	09-26-13	6.8	43.2	13.2	36.8	95.0	11.1	55.5	422	123
APAC-MISSOURI, INC. - BOONVILLE, OVERLAND PARK, KS										
Stockpile #1										
Lab #0544	08-07-13	7.2	47.6	12.2	33.0	95.6	0.2	52.2	399	2
Lab #0763	09-09-13	7.9	49.9	11.9	30.3	91.7	0.1	49.9	366	1
Lab #0919	10-08-13	5.7	49.4	11.9	33.0	95.7	0.1	52.5	402	1
Lab #1111	11-15-13	9.9	51.5	9.6	29.0	91.6	1.0	47.6	349	10
Lab #1218	12-10-13	8.2	48.8	12.5	30.5	94.6	0.1	50.2	380	1
Stockpile #2										
Lab #0920	10-08-13	5.9	50.0	12.3	31.8	95.0	0.1	51.7	393	1
Lab #1018	10-24-13	4.6	47.8	13.7	33.9	95.0	0.1	54.1	411	1
Lab #1110	11-15-13	5.9	48.6	13.4	32.1	92.5	0.5	52.3	387	5
Lab #1217	12-10-13	5.9	48.5	12.9	32.7	92.3	0.3	52.6	388	3
APAC - BRICKEY'S STONE, BLOOMSDALE, MO										
Stockpile #1										
Lab #0744	09-04-13	8.5	34.0	11.5	46.0	95.8	0.5	61.4	471	6
Lab #0994	10-17-13	0.1	39.4	13.9	46.6	96.1	0.5	64.8	498	6
Lab #1225	12-11-13	1.4	43.3	13.1	42.2	94.8	0.5	60.9	462	6
Stockpile #2										
Lab #0995	10-17-13	27.5*	31.9	8.7	31.9	95.8	0.3	45.1	0	0
APAC - KANSAS & MISSOURI -DEFIANCE, OVERLAND PARK, KS										
Stockpile #1										
Lab #0648	08-20-13	4.3	46.0	9.5	40.2	96.2	5.2	57.4	442	60
Lab #0933	10-09-13	2.5	44.5	11.0	42.0	94.2	6.1	59.7	450	73
Lab #1042	10-30-13	3.4	48.7	8.8	39.1	95.3	7.1	56.6	431	80
APAC-MISSOURI, INC. - LINN CREEK, LINN CREEK, MO										
APAC-CENTRAL, INC. - BUSIEK, FAYETTEVILLE, AR										
APAC-MISSOURI, INC. - MARSHALL, MARSHALL, MO										
Stockpile #5										
Lab #0550	08-09-13	1.4	56.4	11.7	30.5	91.5	0.4	51.6	378	4
Lab #0766	09-10-13	3.9	49.9	10.4	35.8	86.7	0.7	54.5	378	8
Lab #0867	10-01-13	3.6	57.8	10.7	27.9	93.4	0.7	48.8	364	7
Lab #1053	11-01-13	5.0	48.7	10.1	36.2	87.4	1.8	54.4	381	20
Lab #1198	12-06-13	2.8	55.4	11.3	30.5	85.4	0.4	51.1	349	4
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 #0869	09-23-13	3.1	52.3	7.5	37.1	88.3	10.3	54.7	386	113
ARKANSAS LIME COMPANY, INC., BATESVILLE, AR										
Stockpile #1										
Lab #0784	09-09-13	4.8	44.4	13.1	37.7	96.0	0.2	56.7	435	2
ASH GROVE AGGREGATES-DEEPWATER, DEEPWATER, MO										
Stockpile #1										
Lab #0540	08-02-13	0.6	39.1	15.2	45.1	95.2	0.1	64.0	487	1
Lab #0975	10-18-13	3.7	34.4	14.6	47.3	85.9	0.1	64.7	444	1
Lab #1144	11-27-13	0.6	36.5	15.2	47.7	87.1	0.2	65.9	460	3
ASH GROVES AGGREGATES-DEVER, BUTLER, MO										
Stockpile #1										
Lab #0620	08-14-13	0.0	32.8	16.2	51.0	95.8	0.1	68.9	528	1
Lab #0913	10-03-13	0.1	34.3	17.1	48.5	94.8	0.1	67.3	511	1
Lab #1031	10-22-13	0.3	32.1	17.5	50.1	93.3	0.1	68.6	512	1
Lab #1188	12-04-13	0.2	33.2	17.2	49.4	93.8	0.2	68.0	510	3

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JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
ASH GROVE AGGREGATES-FAIR GROVE, BUTLER, MO										
Stockpile #2										
Lab #0825	09-17-13	5.6	51.6	6.6	36.2	89.0	10.7	53.1	378	114
Lab #0959	10-10-13	5.1	50.0	5.9	39.0	89.9	11.0	55.0	396	121
ASH GROVE AGGREGATES-FAIR PLAY, BUTLER, MO										
Stockpile #2										
Lab #0595	08-07-13	0.0	30.3	17.3	52.4	93.8	0.4	70.4	528	6
Lab #0820	09-17-13	0.0	34.8	16.4	48.8	94.2	1.9	67.3	507	26
Lab #0970	10-16-13	0.0	35.8	16.6	47.6	92.4	0.5	66.5	492	7
ASH GROVE AGGREGATES INC-S&K, BUTLER, MO										
Stockpile #2										
Lab #0695	08-28-13	0.7	48.3	14.4	36.6	79.7	0.4	57.3	365	5
Lab #0911	10-01-13	0.5	46.3	13.8	39.4	81.1	0.4	59.3	384	5
Lab #1156	11-25-13	0.3	49.7	13.9	36.1	80.0	0.4	56.9	364	5
Lab #1249	12-30-13	0.1	40.5	15.6	43.8	84.7	0.6	63.3	429	8
ASH GROVE AGGREGATES INC-LACYGNE, BUTLER, MO										
Stockpile #1										
Lab #0693	08-28-13	0.5	41.3	9.4	48.8	78.4	1.2	64.8	406	16
Lab #0909	10-01-13	0.3	42.7	10.3	46.7	80.5	1.5	63.6	409	19
Lab #1154	11-25-13	0.3	41.7	9.6	48.4	80.3	1.4	64.6	415	18
ASH GROVE AGGREGATES INC-MARSHFIELD, BUTLER, MO										
ASH GROVE AGGREGATES INC-MONTEVALLO, BUTLER, MO										
Stockpile #1										
Lab #0594	08-05-13	1.3	38.6	16.1	44.0	94.5	0.3	63.3	479	4
Lab #0804	09-12-13	1.3	43.9	13.5	41.3	87.6	0.4	60.4	423	5
Lab #0972	10-16-13	0.7	37.9	15.6	45.8	89.0	0.2	64.6	460	3
ASH GROVE AGGREGATES INC-OSCEOLA, BUTLER, MO										
Stockpile #1										
Lab #0623	08-16-13	3.3	49.6	11.1	36.0	91.8	1.6	55.1	404	18
Lab #0873	09-27-13	2.7	47.8	11.6	37.9	90.7	2.3	56.8	412	26
Lab #1112	11-12-13	3.1	47.2	12.3	37.4	90.2	1.2	56.6	408	14
ASH GROVE AGGREGATES INC-WHEATLAND, BUTLER, MO										
Stockpile #1										
Lab #0537	08-01-13	5.6	46.3	10.1	38.0	96.5	0.1	55.6	430	1
Lab #0800	09-11-13	6.1	46.7	11.0	36.2	96.0	0.1	54.5	418	1
Lab #0949	10-08-13	3.1	46.5	10.8	39.6	94.4	0.2	57.7	436	2
Lab #1157	11-26-13	1.4	52.0	14.1	32.5	96.0	0.1	54.0	414	1
Stockpile #2										
Lab #0538	08-01-13	0.2	44.8	14.1	40.9	96.7	0.1	60.6	468	1
Lab #0801	09-11-13	0.2	43.9	14.7	41.2	95.8	0.1	61.0	467	1
Lab #0950	10-08-13	0.4	46.5	13.2	39.9	95.4	0.3	59.4	454	4
Lab #1158	11-26-13	0.1	44.2	14.7	41.0	95.3	0.1	60.9	464	1
ASH GROVE AGGREGATES INC-BUFFALO, BUTLER, MO										
Stockpile #1										
Lab #0621	08-15-13	8.7	44.5	8.9	37.9	90.8	10.7	54.4	395	116
Lab #0973	10-17-13	8.0	43.8	9.8	38.4	90.6	11.1	55.2	400	123
BAILEY QUARRIES INC-CHESAPEAKE Q., MT VERNON, MO										
Stockpile #1										
Lab #0547	08-08-13	0.3	54.0	9.4	36.3	91.1	11.1	55.4	404	123
Lab #0871	09-26-13	0.2	39.9	9.5	50.4	86.1	10.3	66.1	455	136
Lab #1093	11-04-13	0.3	44.7	10.2	44.8	88.6	11.2	62.1	440	139
BAILEY QUARRIES, INC -EUDORA QUARRY, REPUBLIC, MO										
Stockpile #1										
Lab #0732	09-03-13	0.1	44.5	16.5	38.9	96.1	0.1	59.9	461	1
Lab #0955	10-07-13	0.3	46.4	17.2	36.1	95.3	0.1	58.0	442	1
Stockpile #2										
Lab #0733	09-03-13	3.9	54.0	12.9	29.2	96.6	0.1	50.4	390	1
Lab #0956	10-07-13	4.1	54.2	12.5	29.2	97.0	0.1	50.3	390	1
Lab #0957	10-08-13	4.8	53.9	11.1	30.2	96.6	0.1	50.3	389	1
Lab #0958	10-09-13	4.7	53.5	13.0	28.8	96.5	0.1	50.0	386	1
BAILEY QUARRIES INC-JANE, REPUBLIC, MO										
Stockpile #2										
Lab #0624	08-12-13	0.3	46.2	8.0	45.5	91.5	11.2	61.9	453	139
Lab #0915	10-04-13	0.3	44.8	9.2	45.7	88.4	11.0	62.4	441	137
Lab #0960	10-11-13	0.2	44.7	8.6	46.5	94.2	11.2	62.8	474	141
Lab #0979	10-18-13	0.1	43.1	10.6	46.2	87.4	10.8	63.3	443	137
BAILEY QUARRIES, INC.-MADRY QUARRY, VERONA, MO										

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		+8	-8+40	-40+60	-60				ENM	EMg
BAILEY QUARRIES - SARCOXIE, REPUBLIC, MO										
Stockpile #1										
Lab #0548	08-09-13	10.5*	48.4	9.5	31.6	83.1	0.1	49.4	0	0
Lab #0870	09-24-13	9.7	47.9	10.0	32.4	81.7	0.2	50.4	329	2
Stockpile #2										
Lab #0549	08-09-13	9.4	47.7	11.0	31.9	88.3	0.1	50.4	356	1
BAILEY QUARRIES INC-STOCKTON, STOCKTON, MO										
Stockpile #1										
Lab #0593	08-05-13	0.6	49.3	14.4	35.7	96.2	0.1	56.7	436	1
Lab #0803	09-12-13	0.3	51.1	13.8	34.8	95.4	0.1	55.9	426	1
Lab #0971	10-16-13	0.5	51.1	14.0	34.4	94.7	0.1	55.6	421	1
Lab #1187	12-04-13	0.4	53.0	13.3	33.3	94.9	0.1	54.5	414	1
BARBER & SONS AGGREGATES, LEE'S SUMMIT, MO										
Stockpile #1										
Lab #0831	09-27-13	10.5*	48.1	8.0	33.4	82.7	0.3	50.2	0	0
Stockpile #2										
Lab #0591	08-13-13	9.0	48.2	8.3	34.5	85.5	0.8	51.5	352	8
Lab #1017	10-23-13	8.7	45.2	8.8	37.3	86.4	0.5	53.9	372	5
Lab #1098	11-11-13	10.0	46.2	7.8	36.0	85.0	0.5	52.2	355	5
Lab #1197	12-05-13	7.5	44.9	9.6	38.0	84.5	0.5	55.0	372	5
BARRETT MATERIALS, INC. - BELLE, NEW HAVEN, MO										
BARRETT MATERIALS INC, NEW HAVEN, MO										
Stockpile #1										
Lab #0599	08-12-13	7.3	37.2	8.2	47.3	70.2	8.5	61.5	345	105
Lab #0935	10-08-13	7.6	37.9	8.7	45.8	71.6	8.7	60.5	347	105
Lab #0938	10-10-13	10.0	36.7	8.0	45.3	69.1	8.1	59.3	328	96
Lab #1139	11-21-13	3.0	47.8	12.6	36.6	90.0	6.2	56.1	404	70
Lab #1216	12-04-13	10.6*	42.0	7.7	39.7	72.4	9.3	54.8	0	0
BASE ROCK MINERALS, BONNE TERRE, MO										
Stockpile #1										
Lab #0713	08-29-13	0.8	44.6	12.5	42.1	96.1	10.5	60.8	467	128
Lab #0840	09-26-13	0.8	47.6	12.9	38.7	94.7	11.2	58.3	442	131
Lab #1066	11-05-13	0.5	45.3	12.2	42.0	96.2	11.4	60.6	467	138
Stockpile #2										
Lab #0714	08-29-13	0.4	40.6	14.1	44.9	96.4	11.2	63.5	490	142
Lab #0841	09-26-13	0.6	45.6	12.5	41.3	96.9	11.6	60.2	467	140
Lab #1067	11-05-13	0.9	46.3	12.6	40.2	98.7	11.9	59.3	469	141
BOONE QUARRIES INC - WEST, COLUMBIA, MO										
BOONE QUARRIES INC - NORTH, COLUMBIA, MO										
BOONE QUARRIES - EAST, COLUMBIA, MO										
Stockpile #1										
Lab #0643	08-22-13	1.3	11.6	11.3	75.8	94.1	3.0	85.5	643	51
Lab #0756	09-05-13	1.5	20.9	16.1	61.5	94.8	1.7	76.4	579	26
Lab #1007	10-07-13	2.6	18.7	11.7	67.0	89.8	5.2	78.7	565	82
Lab #1109	11-15-13	4.0	26.1	16.0	53.9	85.5	2.4	70.0	479	34
Lab #1172	12-03-13	1.5	13.1	13.7	71.7	97.1	2.7	83.2	646	45
BOONE QUARRIES INC. - SEDALIA, COLUMBIA, MO										
Stockpile #2										
Lab #0551	08-09-13	6.0	47.4	10.7	35.9	96.6	1.9	54.2	419	21
Lab #0767	09-10-13	4.9	48.8	11.0	35.3	94.5	2.2	54.1	409	24
Lab #0865	10-01-13	5.6	50.6	10.1	33.7	95.5	2.0	52.4	400	21
Lab #1054	11-01-13	7.0	48.5	10.1	34.4	94.5	2.1	52.6	398	22
Lab #1199	12-06-13	5.6	50.3	10.6	33.5	96.3	1.8	52.4	404	19
Stockpile #4										
Lab #0552	08-09-13	3.4	47.6	12.1	36.9	97.4	1.3	56.1	437	15
Lab #0768	09-10-13	4.3	47.9	11.3	36.5	96.2	1.1	55.3	425	12
Lab #0866	10-01-13	5.7	48.2	10.8	35.3	97.0	1.4	53.8	418	15
Lab #1055	11-01-13	4.3	47.5	11.0	37.2	96.2	1.3	55.7	428	14
Lab #1200	12-06-13	3.5	44.2	13.2	39.1	95.8	1.6	58.1	445	19
BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO										
Stockpile #1										
Lab #0658	08-19-13	0.1	0.4	1.9	97.6	98.4	6.8	98.8	778	134
Lab #0876	10-01-13	0.0	0.6	0.9	98.5	97.6	5.3	99.2	774	105
Lab #1179	12-03-13	0.0	0.7	1.7	97.6	95.8	6.3	98.8	757	124
Stockpile #2										
Lab #0659	08-19-13	4.2	46.6	9.1	40.1	96.3	2.5	57.2	441	29
Lab #0875	10-01-13	3.1	41.8	9.2	45.9	96.3	3.4	61.9	477	42
Lab #1215	12-03-13	2.0	41.4	9.5	47.1	95.5	3.6	63.2	482	45

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JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
CALCIUM PRODUCTS, INC., GILMORE CITY, IA										
CANTERA AGGREGATE INC, PLANO, IA										
Stockpile #1										
Lab #0516	08-01-13	0.8	37.8	10.8	50.6	71.2	0.5	66.5	379	7
Lab #0696	08-26-13	0.2	31.9	10.3	57.6	62.5*	0.6	71.8	0	0
Lab #0745	09-03-13	0.4	36.2	10.3	53.1	70.8	0.4	68.3	387	5
Lab #0999	10-14-13	0.2	36.6	11.3	51.9	73.0	0.5	67.8	396	7
CAPITAL QUARRIES CO., INC.-ARCADIA, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0711	08-29-13	0.7	54.9	10.5	33.9	99.5	11.4	53.9	429	123
Lab #0838	09-26-13	0.3	48.1	12.1	39.5	99.8	11.8	58.8	469	139
Lab #1064	11-05-13	0.4	50.3	11.9	37.4	98.2	12.4	57.1	449	142
CAPITAL QUARRIES, INC.- DANVILLE, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0553	08-05-13	0.3	53.3	10.3	36.1	92.2	0.6	55.6	410	7
Lab #0709	08-28-13	0.2	52.9	11.4	35.5	91.3	0.8	55.6	406	9
Lab #0937	10-10-13	0.2	49.1	11.6	39.1	86.4	1.1	58.3	403	13
CAPITAL QUARRIES CO., INC- EUGENE, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0558	08-07-13	1.0	43.7	8.1	47.2	81.5	10.1	63.0	411	127
Lab #0809	09-16-13	0.1	39.1	9.4	51.4	81.3	9.8	66.8	435	131
Lab #1021	10-24-13	0.3	42.5	8.7	48.5	80.1	10.0	64.3	412	129
CAPITAL QUARRIES CO., INC.-OWENSVIL, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0527	08-02-13	1.8	46.6	9.2	42.4	89.8	11.1	59.6	428	132
Lab #0812	09-17-13	2.5	48.2	10.1	39.2	89.9	10.7	57.3	412	123
Lab #1063	11-07-13	2.4	59.0	10.5	28.1	88.2	4.2	49.2	347	41
CAPITAL QUARRIES, INC-STADIUM WEST, JEFFERSON CITY, MO										
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0526	08-01-13	1.3	15.4	6.3	77.0	88.1	10.8	84.6	596	183
Lab #1072	11-06-13	7.0	30.3	8.0	54.7	91.0	11.3	67.1	488	152
Stockpile #2										
Lab #0525	08-01-13	1.9	8.1	8.2	81.8	80.9	9.7	88.7	574	172
Lab #0653	08-21-13	1.9	22.5	6.7	68.9	87.6	10.3	78.5	550	162
Lab #0984	10-16-13	2.7	22.8	7.9	66.6	86.1	10.9	77.0	531	168
Stockpile #4										
Lab #0940	10-07-13	1.9	21.6	7.4	69.1	86.0	10.5	78.9	543	166
CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0592	08-14-13	0.3	45.2	12.2	42.3	92.7	1.4	60.9	452	17
Lab #0764	09-09-13	0.2	46.9	13.9	39.0	92.8	0.5	59.1	438	6
Lab #0961	10-14-13	0.4	52.0	11.7	35.9	91.9	1.2	55.9	411	13
Lab #1060	11-04-13	0.2	45.6	11.6	42.6	92.0	1.4	61.0	449	17
Lab #1174	12-02-13	0.1	44.0	13.8	42.1	88.8	1.7	61.4	436	21
CAPITAL QUARRIES INC.-HERMANN #14, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0554	08-05-13	1.8	43.5	8.4	46.3	87.7	10.7	62.2	437	133
Lab #0936	10-08-13	1.3	46.9	7.4	44.4	88.4	10.6	60.6	428	128
Lab #1140	11-21-13	1.3	48.3	9.0	41.4	88.7	11.1	58.9	418	131
CAPITAL QUARRIES, INC - SALEM, JEFFERSON CITY, MO										
CAPITAL QUARRIES INC-SULLIVAN, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0656	08-22-13	5.3	41.7	14.5	38.5	99.7	11.3	57.6	460	130
Lab #0773	09-09-13	7.9	44.7	13.1	34.3	99.0	11.1	53.3	422	118
Lab #0874	09-30-13	6.0	48.7	10.8	34.5	95.0	11.3	53.2	404	120
CARROLL COUNTY STONE, INC., REPUBLIC, MO										
Stockpile #1										
Lab #0685	08-30-13	0.4	41.2	10.3	48.1	86.4	10.3	64.6	446	133
CARTHAGE CRUSHED LIMESTONE, CARTHAGE, MO										
Stockpile #1										
Lab #0787	09-09-13	0.3	1.5	2.5	95.7	96.6	0.2	97.6	754	4
Stockpile #2										
Lab #0788	09-09-13	0.0	0.6	0.4	99.0	95.0	0.1	99.4	755	2
Stockpile #3										
Lab #0789	09-09-13	0.0	0.3	0.7	99.0	96.4	0.1	99.5	767	2
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Stockpile #2										
Lab #0515	07-22-13	0.3	34.0	14.5	51.2	86.2	0.2	68.4	472	3

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		+8	-8+40	-40+60	-60				ENM	EMg
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO (Continued)										
Stockpile #2										
Lab #0529	08-01-13	0.4	33.2	14.9	51.5	95.2	0.2	68.7	524	3
Lab #0750	08-29-13	0.2	36.8	16.7	46.3	88.1	0.1	65.5	462	1
Lab #0890	10-04-13	0.4	27.9	15.1	56.6	71.2	0.3	72.6	414	4
Lab #1169	11-27-13	0.5	37.8	15.8	45.9	84.5	0.1	64.8	438	1
Stockpile #4										
Lab #0530	08-01-13	0.2	2.0	10.6	87.2	87.8	0.5	94.1	661	9
Lab #0751	08-29-13	0.2	2.3	12.5	85.0	86.9	0.6	93.1	647	11
Lab #0891	10-04-13	0.1	1.7	10.2	88.0	81.1	0.5	94.5	613	9
Lab #1085	11-08-13	0.0	1.7	11.2	87.1	82.1	0.6	94.2	619	11
Stockpile #5										
Lab #0531	08-01-13	7.9	36.9	9.2	46.0	90.3	0.3	60.7	439	4
Lab #0752	08-29-13	7.7	38.2	9.0	45.1	91.9	0.3	60.1	441	4
Lab #0892	10-04-13	14.1*	42.7	9.0	34.2	94.6	0.2	50.3	0	0
Stockpile #6										
Lab #1016	10-17-13	5.8	41.5	9.4	43.3	92.7	0.3	59.3	440	4
Lab #1086	11-08-13	3.9	40.2	9.9	46.0	92.5	0.3	62.0	459	4
Lab #1170	11-27-13	6.0	38.0	9.6	46.4	90.8	0.3	61.7	448	4
CENTRAL STONE COMPANY-ANTONIA, HANNIBAL, MO										
CENTRAL STONE COMPANY - BETHEL, SHELBYVILLE, MO										
CENTRAL STONE COMPANY - FARMINGTON, FARMINGTON, MO										
Stockpile #3										
Lab #0712	08-29-13	0.0	0.1	3.1	96.8	85.4	2.6	98.7	674	51
Lab #0839	09-26-13	0.1	0.5	1.6	97.8	91.4	3.6	98.9	723	71
Lab #1065	11-05-13	0.0	0.8	3.3	95.9	87.2	3.2	98.1	684	63
CENTRAL STONE CO - FORT BELLE - #31, FLORISSANT, MO										
Stockpile #1										
Lab #0638	08-20-13	0.0	0.1	2.7	97.2	90.3	2.3	98.8	714	45
Lab #0829	09-18-13	0.0	0.5	3.7	95.8	92.2	2.1	98.1	724	41
Lab #1012	10-15-13	0.0	0.4	3.1	96.5	92.5	2.3	98.5	729	45
Lab #1244	12-10-13	0.0	0.3	3.6	96.1	91.9	2.4	98.3	723	47
CENTRAL STONE COMPANY - PARIS, PARIS, MO										
Stockpile #2										
Lab #0508	07-19-13	4.8	45.8	11.9	37.5	88.7	0.1	56.1	398	1
Lab #0632	08-13-13	6.2	46.4	11.4	36.0	87.7	0.1	54.4	382	1
Lab #0758	09-06-13	7.3	50.1	11.3	31.3	89.4	0.1	50.6	362	1
Lab #0888	10-02-13	4.3	50.7	12.9	32.1	88.4	0.4	52.5	371	4
Lab #1107	11-15-13	6.6	44.3	11.9	37.2	88.4	0.3	55.4	392	3
CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO										
Stockpile #2										
Lab #0634	08-14-13	0.8	38.5	12.7	48.0	84.0	1.2	65.2	438	16
Lab #0755	09-04-13	0.7	35.4	11.6	52.3	80.0	1.6	68.1	436	22
Lab #0886	10-01-13	0.9	38.9	11.9	48.3	80.8	1.5	65.2	421	20
Lab #1083	11-07-13	2.5	50.5	12.5	34.5	88.0	0.7	54.6	385	8
Lab #1212	12-04-13	0.8	39.2	11.9	48.1	82.3	1.5	65.0	428	20
CENTRAL STONE COMPANY - PERRY, HANNIBAL, MO										
CENTRAL STONE COMPANY - EWING, HANNIBAL, MO										
CENTRAL STONE COMPANY - TAYLOR, TAYLOR, MO										
Stockpile #1										
Lab #0514	07-22-13	5.7	47.0	10.9	36.4	86.5	0.5	54.7	378	5
Lab #0532	08-01-13	2.4	47.1	12.5	38.0	90.1	0.9	57.3	413	10
Lab #0725	08-28-13	2.7	47.0	12.1	38.2	86.1	0.7	57.2	394	8
Lab #0848	09-24-13	3.4	48.5	12.9	35.2	89.3	0.4	55.1	393	4
Lab #1035	10-23-13	2.5	48.3	12.1	37.1	91.9	1.3	56.4	415	15
Lab #1160	11-18-13	2.4	48.1	12.6	36.9	88.7	0.9	56.5	401	10
CLEVER STONE CO, CLEVER, MO										
Stockpile #1										
Lab #1236	12-10-13	0.7	50.8	12.4	36.1	91.7	0.1	56.2	413	1
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Stockpile #1										
Lab #0824	09-17-13	0.1	8.2	13.4	78.3	95.9	1.1	88.4	678	19
Lab #0976	10-14-13	0.0	15.8	17.6	66.6	97.1	0.2	81.1	630	3
Lab #1237	12-11-13	0.0	12.7	15.5	71.8	95.3	0.8	84.3	643	13
COUNTY LINE QUARRY, WELLSVILLE, MO										
Stockpile #1										
Lab #0635	08-16-13	5.4	45.4	8.2	41.0	89.8	4.9	57.3	411	56
Lab #0778	09-10-13	5.6	44.3	8.7	41.4	91.3	4.3	57.7	421	50
Lab #0885	09-30-13	4.7	46.3	9.5	39.5	93.1	4.6	56.8	423	52

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		+8	-8+40	-40+60	-60				ENM	EMg
COUNTY LINE QUARRY, WELLSVILLE, MO (Continued)										
Stockpile #1										
Lab #1079	11-06-13	4.7	44.5	9.1	41.7	87.8	5.1	58.3	409	59
Lab #1168	11-26-13	5.7	45.4	8.5	40.4	90.0	4.9	56.9	409	56
COUNTY LINE STONE, CASSVILLE, MO										
CRAWFORD LIME & MATERIAL CO, CUBA, MO										
Stockpile #1										
Lab #0657	08-23-13	2.7	44.1	9.7	43.5	86.8	10.1	60.3	419	122
CRIDER BROTHERS LIME CO., INC., EMINENCE, MO										
Stockpile #1										
Lab #0645	08-21-13	3.2	49.8	12.1	34.9	98.5	11.1	54.6	430	121
D & D SUPPLY, LONE JACK, MO										
DOSS & HARPER STONE CO., HOUSTON, MO										
Stockpile #2										
Lab #1193	12-03-13	0.5	45.4	12.6	41.5	82.8	10.5	60.4	400	127
DOSS & HARPER STONE CO, WEST PLAINS, MO										
Stockpile #1										
Lab #1194	12-03-13	0.6	56.3	7.8	35.3	87.3	11.3	54.1	378	122
Lab #1195	12-04-13	0.5	54.9	9.4	35.2	87.1	11.3	54.6	380	123
DOUBLE EAGLE AGGREGATES, MILLER, MO										
Stockpile #2										
Lab #0734	09-04-13	0.1	41.2	10.5	48.2	92.3	10.4	64.8	478	135
Lab #0790	09-10-13	0.3	43.9	10.8	45.0	91.8	10.3	62.5	459	129
DOUBLE EAGLE AGGREGATES CO., INC, MILLER, MO										
Stockpile #1										
Lab #0676	08-22-13	0.2	45.7	6.6	47.5	89.6	10.3	62.9	451	130
Stockpile #2										
Lab #0677	08-22-13	0.4	37.4	14.5	47.7	41.7*	5.0	65.8	0	0
E & S ROCK, LLC, HOLDEN, MO										
Stockpile #2										
Lab #0590	08-13-13	1.3	46.6	10.1	42.0	75.1	1.7	59.7	359	20
Lab #0727	09-03-13	1.2	46.2	10.5	42.1	75.0	1.7	60.0	360	20
Lab #0963	10-15-13	0.9	48.8	10.5	39.8	72.0	1.8	58.3	336	21
Lab #1099	11-11-13	1.0	49.1	11.0	38.9	73.0	1.8	57.8	337	21
Lab #1196	12-05-13	2.1	50.9	10.6	36.4	74.0	2.2	55.5	328	24
FALL VALLEY STONE, INC., MT. VERNON, MO										
FISCHER QUARRY & HAULING, LLC, ST. MARY, MO										
Stockpile #1										
Lab #0737	09-04-13	2.7	52.6	14.1	30.6	98.2	0.1	52.2	410	1
Lab #0993	10-17-13	0.9	48.0	15.2	35.9	97.0	0.1	57.0	442	1
Lab #1233	12-11-13	1.7	49.3	14.7	34.3	97.1	0.1	55.4	431	1
GABEL STONE COMPANY, INC, WILLOW SPRINGS, MO										
Stockpile #1										
Lab #0914	09-30-13	2.1	49.9	13.4	34.6	93.8	11.2	55.1	414	123
Lab #1039	10-29-13	2.1	49.0	13.1	35.8	91.4	11.5	55.9	409	129
GABEL STONE COMPANY INC., WILLOW SPRINGS, MO										
HEARTLAND MATERIALS LLC, JACKSON, MO										
Stockpile #1										
Lab #0543	08-05-13	0.4	35.7	15.9	48.0	97.9	2.0	66.5	521	27
Lab #0726	09-04-13	0.2	37.1	16.1	46.6	97.2	2.2	65.5	510	29
Lab #0884	10-01-13	0.3	35.3	16.3	48.1	97.3	2.1	66.7	519	28
Lab #1046	10-30-13	0.3	34.1	17.7	47.9	97.5	2.6	67.0	523	35
Lab #1176	12-02-13	0.1	34.1	16.5	49.3	96.1	2.4	67.7	521	33
HIGGINS QUARRY, LLC, LOOSE CREEK, MO										
Stockpile #2										
Lab #0559	08-09-13	1.5	44.5	9.9	44.1	95.5	11.9	61.2	467	146
Lab #0934	10-07-13	1.4	50.6	9.5	38.5	93.5	11.6	56.9	425	132
Lab #1022	10-24-13	1.0	47.1	9.9	42.0	87.9	11.0	59.7	420	131
Lab #1138	11-18-13	1.0	43.7	10.9	44.4	93.2	11.4	61.9	461	141
HILTY QUARRIES, INC - LEETON, CLINTON, MO										
Stockpile #3										
Lab #0619	08-13-13	0.6	42.6	11.9	44.9	93.1	0.4	62.7	467	5
Lab #1030	10-21-13	0.7	41.3	12.0	46.0	92.3	0.4	63.5	469	5
HILTY QUARRIES, INC. - MONTROSE, CLINTON, MO										
Stockpile #1										
Lab #0596	08-08-13	7.6	50.3	9.5	32.6	83.7	0.7	50.9	341	7
Lab #0822	09-18-13	7.7	52.5	9.8	30.0	81.7	0.8	49.0	320	8
Lab #0968	10-15-13	4.4	48.2	12.1	35.3	81.1	0.9	54.6	354	10
Lab #1183	12-03-13	8.0	52.7	8.6	30.7	82.0	1.0	49.0	322	10

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
HILTY QUARRIES, INC. - MONTROSE, CLINTON, MO (Continued)										
Stockpile #3										
Lab #0597	08-08-13	2.3	38.5	12.3	46.9	88.7	0.2	63.9	453	3
Lab #0823	09-18-13	3.8	36.3	11.5	48.4	82.8	0.3	64.4	426	4
Lab #0969	10-15-13	3.0	37.3	12.5	47.2	84.9	0.2	64.0	435	3
HILTY QUARRIES, INC - SOUTH DELL, CLINTON, MO										
Stockpile #1										
Lab #0673	08-22-13	5.6	49.6	10.6	34.2	93.6	0.3	53.0	397	3
Lab #0912	10-02-13	3.7	50.0	10.5	35.8	93.4	0.5	54.6	408	5
Lab #1201	12-05-13	3.2	48.6	11.4	36.8	91.9	0.5	55.8	410	6
HILTY QUARRIES, INC - TIGHTWAD, CLINTON, MO										
Stockpile #1										
Lab #0669	08-22-13	2.8	44.1	12.6	40.5	86.7	0.2	59.1	410	2
Lab #0953	10-10-13	0.8	44.4	12.2	42.6	93.1	0.8	61.0	454	10
Lab #1203	12-05-13	0.8	43.2	13.5	42.5	92.0	0.5	61.4	452	6
Stockpile #2										
Lab #0670	08-22-13	0.3	50.1	9.3	40.3	70.1	3.7	58.4	328	43
Lab #0954	10-10-13	4.8	59.7	10.8	24.7	78.4	4.1	46.1	289	38
Lab #1204	12-05-13	4.2	43.9	9.6	42.3	74.8	3.0	59.0	353	35
Stockpile #4										
Lab #0671	08-22-13	17.2*	34.7	11.9	36.2	91.3	1.2	52.0	0	0
HILTY QUARRIES, INC. - URICH, CLINTON, MO										
Stockpile #3										
Lab #0598	08-08-13	4.0	52.2	8.7	35.1	72.9	1.0	53.4	311	11
Lab #0821	09-18-13	5.1	48.8	8.9	37.2	72.1	1.0	54.7	316	11
HOSTETTLER QUARRY, LLC, BUFFALO, MO										
Stockpile #1										
Lab #0622	08-15-13	2.8	43.6	8.1	45.5	87.0	10.2	61.3	426	125
Lab #0974	10-17-13	3.2	44.5	8.1	44.2	83.0	10.3	60.2	400	124
HORN QUARRY, LLC, BRECKENRIDGE, MO										
Stockpile #1										
Lab #0520	08-02-13	0.6	41.0	9.9	48.5	91.2	0.9	64.7	472	12
Lab #0702	08-27-13	0.8	43.9	11.0	44.3	88.5	0.9	61.9	438	11
Lab #0704	08-30-13	1.1	38.3	9.6	51.0	79.8	1.1	66.3	423	15
Lab #0924	10-07-13	1.6	46.3	10.3	41.8	83.3	0.9	59.6	397	11
HOUSE SPRINGS QUARRY, HOUSE SPRINGS, MO										
Stockpile #1										
Lab #0877	10-01-13	2.8	45.7	7.2	44.3	96.6	4.0	60.0	464	48
Lab #1180	12-03-13	2.7	41.2	7.3	48.8	97.3	4.5	63.5	494	57
HUNT-MARTIN MATERIALS, PARKVILLE, MO										
HUNT-MARTIN MATERIALS - STAMPER, KANSAS CITY, MO										
Stockpile #2										
Lab #0588	08-09-13	0.0	24.0	16.0	60.0	90.4	0.7	75.6	547	11
Lab #0807	09-10-13	0.3	27.7	15.5	56.5	89.0	0.6	72.7	518	9
Lab #1116	11-08-13	0.0	23.0	16.9	60.1	88.6	0.6	76.0	539	9
Lab #1222	12-10-13	0.3	19.4	15.5	64.8	88.3	0.9	79.0	558	14
HUNTER STONE CO, ELLSINORE, MO										
Stockpile #1										
Lab #0646	08-21-13	0.0	40.7	15.0	44.3	96.3	11.1	63.5	489	141
Lab #0942	10-07-13	0.1	49.9	11.8	38.2	94.9	11.3	57.8	438	131
HUTCHENS CONSTRUCTION-PURDY, CASSVILLE, MO										
HUTCHENS CONSTRUCTION-EAGLE ROCK, CASSVILLE, MO										
Stockpile #2										
Lab #0625	08-16-13	5.9	48.9	7.9	37.3	91.6	11.1	54.3	398	120
Lab #1096	11-08-13	2.3	41.2	9.8	46.7	89.2	11.1	62.9	449	140
HUTCHENS CONSTRUCTION CO-SHELL KNOB, CASSVILLE, MO										
Stockpile #1										
Lab #0626	08-16-13	0.2	45.3	13.3	41.2	94.2	11.4	60.5	456	138
Lab #1097	11-08-13	0.6	43.7	9.7	46.0	88.8	11.2	62.7	446	141
HUTCHENS CONSTRUCTION-WASHBURN, CASSVILLE, MO										
IDEKER INC, ST JOSEPH, MO										
JASPER STONE LLC, JASPER, MO										
Stockpile #1										
Lab #0683	08-27-13	4.1	41.9	13.6	40.4	97.2	0.1	59.0	459	1
Lab #0977	10-15-13	0.0	47.0	15.5	37.5	95.9	0.1	58.6	449	1
JENKINS QUARRY, CASSVILLE, MO										
JIMMY SANDERS, INC, LEACHVILLE, AR										

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JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
JOPLIN STONE CO Q DUENWEG, JOPLIN, MO										
Stockpile #2										
Lab #0545	08-05-13	1.5	40.4	13.7	44.4	95.6	0.1	62.7	480	1
Lab #1094	11-05-13	1.3	37.7	15.0	46.0	77.8	0.1	64.4	401	1
LEO JOURNAGAN CONSTRUCTION CO, INC, SPRINGFIELD, MO										
Stockpile #1										
Lab #0674	08-19-13	0.6	44.7	15.6	39.1	95.7	0.1	59.6	457	1
Lab #1234	12-09-13	1.9	51.2	14.1	32.8	95.7	0.2	54.1	414	2
Lab #1235	12-10-13	0.2	43.0	15.7	41.1	95.7	0.1	61.3	469	1
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Stockpile #2										
Lab #0513	07-22-13	0.1	2.8	3.0	94.1	88.0	0.7	96.6	680	14
Lab #0562	08-05-13	0.3	3.3	3.5	92.9	79.4	1.4	95.8	609	27
Lab #0723	08-27-13	0.2	3.2	3.0	93.6	85.3	0.7	96.2	656	13
Lab #0846	09-24-13	0.2	4.0	5.2	90.6	82.2	2.1	94.7	623	40
Lab #1037	10-29-13	0.1	4.3	4.9	90.7	85.6	2.3	94.7	649	44
Lab #1163	11-20-13	0.0	2.3	2.5	95.2	84.3	0.8	97.3	656	16
Stockpile #3										
Lab #0563	08-05-13	3.8	29.2	9.1	57.9	89.6	1.8	70.7	506	25
Lab #0724	08-27-13	0.8	21.7	10.4	67.1	89.6	1.2	78.8	565	19
Lab #0847	09-24-13	3.6	25.3	9.7	61.4	90.0	2.0	73.5	530	29
Lab #1038	10-29-13	0.6	25.2	11.8	62.4	89.8	1.0	75.8	544	15
Lab #1164	11-20-13	0.3	25.5	11.8	62.4	90.0	1.0	75.9	546	15
KELLEY QUARRY, CROCKER, MO										
KEMP STONE, INC, PRYOR, OK										
KERFORD LIMESTONE CO, WEEPING WATER, NE										
Stockpile #1										
Lab #0606	08-15-13	0.0	0.1	0.0	99.9	89.1	0.7	99.9	712	14
Lab #1115	11-06-13	0.0	0.3	0.3	99.4	85.3	0.9	99.7	680	18
KING QUARRY, THAYER, MO										
Stockpile #1										
Lab #0680	08-26-13	0.1	50.9	10.1	38.9	89.8	10.4	57.7	414	120
Lab #0786	09-12-13	0.9	52.9	9.5	36.7	89.0	9.7	55.6	396	108
Lab #0980	10-15-13	0.6	52.2	9.8	37.4	90.1	11.0	56.3	406	124
KNOX COUNTY STONE CO, EDINA, MO										
Stockpile #2										
Lab #0536	08-02-13	0.4	35.3	12.7	51.6	91.3	1.1	68.0	497	15
Lab #0720	08-27-13	2.6	36.9	11.2	49.3	86.8	3.3	65.2	453	43
Lab #0844	09-24-13	2.1	42.4	12.0	43.5	78.6	1.6	61.3	385	20
Lab #1161	11-19-13	4.9	42.5	11.3	41.3	85.6	2.1	58.7	402	25
Lab #1246	12-12-13	3.1	45.2	12.3	39.4	82.4	2.6	58.1	383	30
L & W QUARRIES, INC - CLARKDALE #8, CENTERVILLE, IA										
Stockpile #1										
Lab #0698	08-26-13	5.3	45.0	9.6	40.1	72.6	0.3	57.1	332	3
Lab #0747	09-03-13	3.8	46.5	9.1	40.6	65.4	0.2	57.7	302	2
Lab #0997	10-14-13	2.3	46.9	9.7	41.1	73.8	0.3	58.6	346	4
L & W QUARRIES, INC - WALNUT CITY, CENTERVILLE, IA										
Stockpile #2										
Lab #0517	08-01-13	3.7	52.8	8.7	34.8	83.7	0.2	53.2	356	2
Lab #0697	08-26-13	2.6	48.3	10.4	38.7	83.7	0.2	57.0	382	2
Lab #0746	09-03-13	4.9	48.9	9.5	36.7	82.3	0.2	54.6	360	2
Lab #0998	10-14-13	3.7	55.5	9.4	31.4	86.8	0.3	50.9	354	3
L & W QUARRIES INC., CENTERVILLE, IA										
Stockpile #1										
Lab #0534	08-01-13	13.5*	42.7	8.6	35.2	86.6	0.6	51.0	0	0
Lab #0718	08-26-13	5.1	46.4	10.5	38.0	90.0	0.4	55.9	402	4
Lab #0843	09-19-13	6.3	49.0	10.2	34.5	91.4	0.6	52.9	387	6
Lab #1014	10-17-13	5.8	46.6	9.6	38.0	86.7	3.3	55.4	384	37
Lab #1166	11-21-13	5.4	45.4	9.4	39.8	87.5	3.7	56.8	398	42
Stockpile #2										
Lab #0533	08-02-13	8.7	44.9	9.0	37.4	92.9	0.1	54.0	402	1
Lab #0719	08-26-13	9.5	44.9	9.4	36.2	93.0	0.1	53.1	395	1
Lab #0842	09-19-13	8.6	44.9	10.3	36.2	92.2	0.2	53.6	395	2
Lab #1013	10-17-13	6.6	46.1	12.5	34.8	91.8	0.2	53.8	395	2
Lab #1165	11-21-13	7.8	46.3	10.2	35.7	90.1	0.1	53.4	385	1
Stockpile #4										
Lab #1015	10-17-13	13.8*	44.8	9.1	32.3	91.6	0.3	49.0	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
LAFARGE WEST INC.-PERRYVILLE, PERRYVILLE, MO										
Stockpile #2										
Lab #0738	09-04-13	1.7	60.0	11.1	27.2	92.3	1.7	48.9	361	17
Lab #0992	10-17-13	0.1	55.8	12.6	31.5	91.7	2.3	53.0	389	24
Lab #1232	12-11-13	0.6	57.8	9.3	32.3	93.4	2.7	52.3	391	28
LILE QUARRY INC., STRAFFORD, MO										
Stockpile #2										
Lab #0675	08-21-13	0.2	53.8	8.6	37.4	85.9	9.9	56.0	385	111
Lab #0978	10-17-13	0.0	51.9	10.0	38.1	86.8	10.7	57.1	396	122
ARRON LUCE FARM CO, OREGON, MO										
Stockpile #1										
Lab #0689	08-29-13	0.1	0.2	0.2	99.5	80.5	1.3	99.7	642	26
Lab #0903	10-01-13	0.1	0.6	0.3	99.0	87.6	1.4	99.3	696	28
MAGRUDER LIMESTONE CO-ASHLEY, BOWLING GREEN, MO										
Stockpile #1										
Lab #0636	08-19-13	0.4	46.6	10.1	42.9	84.9	2.0	60.6	412	24
Lab #0780	09-11-13	1.6	40.8	12.0	45.6	85.4	1.6	63.0	430	20
Lab #1081	11-07-13	0.4	51.5	8.9	39.2	81.2	2.2	57.4	373	25
Lab #1211	12-04-13	0.5	47.6	9.3	42.6	82.0	2.2	60.1	394	26
Stockpile #2										
Lab #0639	08-21-13	0.2	50.2	11.2	38.4	80.0	1.6	57.7	369	18
Lab #0779	09-11-13	0.3	46.0	12.3	41.4	72.3	0.8	60.3	349	10
Lab #0887	10-01-13	0.2	44.7	12.8	42.3	73.0	1.4	61.2	357	17
Lab #1082	11-07-13	0.2	43.4	11.6	44.8	71.6	1.9	62.6	359	24
Lab #1210	12-04-13	0.1	45.2	13.6	41.1	78.2	1.6	60.6	379	19
MAGRUDER LIMESTONE CO, INC.-BOWLING, BOWLING GREEN, MO										
MAGRUDER LIMESTONE - FOLEY QUARRY, TROY, MO										
MAGRUDER LIMESTONE CO-FRANKFORD, BOWLING GREEN, MO										
Stockpile #1										
Lab #0630	08-12-13	1.2	44.6	12.0	42.2	97.8	2.0	60.6	474	24
Lab #0754	09-04-13	1.9	43.0	13.1	42.0	97.0	1.7	60.6	470	21
Lab #0893	10-04-13	1.7	43.0	12.7	42.6	96.7	1.8	61.0	472	22
Lab #1080	11-07-13	1.5	42.8	12.9	42.8	96.0	1.7	61.2	470	21
Lab #1205	12-04-13	2.6	41.1	11.3	45.0	94.2	1.7	62.1	468	21
MAGRUDER LIMESTONE CO. - SHELBY, TROY, MO										
Stockpile #1										
Lab #0507	07-19-13	2.5	49.1	12.0	36.4	78.2	0.7	55.9	350	8
Lab #0511	07-22-13	4.0	48.0	12.4	35.6	78.5	0.8	55.0	346	9
Lab #0535	08-02-13	3.3	48.3	13.5	34.9	83.4	0.3	55.1	367	3
Lab #0753	09-03-13	2.7	51.2	14.1	32.0	83.7	0.2	53.3	357	2
Lab #0849	09-26-13	3.7	51.8	12.8	31.7	81.2	0.7	52.3	340	7
Lab #1084	11-08-13	2.9	47.5	12.7	36.9	75.2	0.2	56.4	339	2
Lab #1173	12-02-13	3.8	52.2	13.4	30.6	82.9	0.2	51.7	343	2
MAGRUDER LIMESTONE - SILEX QUARRY, TROY, MO										
Stockpile #2										
Lab #0627	08-12-13	2.0	45.2	8.3	44.5	93.3	3.6	60.8	454	44
Lab #0781	09-11-13	3.2	51.0	8.6	37.2	92.9	3.1	55.1	410	34
Lab #1009	10-14-13	3.7	49.4	8.0	38.9	93.8	3.4	56.1	421	38
Lab #1102	11-13-13	2.8	46.7	8.9	41.6	92.2	3.4	58.6	432	40
Lab #1209	12-04-13	2.6	47.1	8.6	41.7	92.9	3.6	58.6	436	42
MAGRUDER LIMESTONE CO Q TROY, TROY, MO										
Stockpile #1										
Lab #0628	08-12-13	4.9	51.1	7.5	36.5	84.3	3.4	53.8	363	37
Lab #0782	09-12-13	3.1	56.0	7.6	33.3	84.9	3.1	51.9	352	32
Lab #1010	10-14-13	9.6	52.0	7.5	30.9	81.2	1.9	48.4	314	18
Lab #1103	11-13-13	8.5	51.9	7.4	32.2	85.3	3.8	49.6	339	38
Lab #1208	12-04-13	2.5	43.5	9.7	44.3	93.3	2.5	61.0	455	30
MANSFIELD LIME & STONE, MANSFIELD, MO										
Stockpile #2										
Lab #1040	10-29-13	2.1	48.5	8.7	40.7	83.4	10.5	58.0	387	122
Lab #1239	12-12-13	2.3	52.6	9.2	35.9	82.4	10.8	54.6	360	118
HUNT MARTIN MATERIAL, RANDOLPH, MO										
Stockpile #1										
Lab #0602	08-16-13	7.6	54.9	8.9	28.6	91.8	0.5	47.7	350	5
Lab #0736	09-06-13	6.4	55.1	9.3	29.2	91.9	0.7	48.6	357	7
Lab #0917	10-07-13	5.8	54.5	9.1	30.6	91.4	0.5	49.7	363	5
Lab #1101	11-07-13	9.5	55.2	8.5	26.8	91.0	0.5	45.7	333	5
Lab #1146	11-25-13	5.8	53.3	9.3	31.6	90.2	0.6	50.5	364	6

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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 #3										
Lab #0717	08-23-13	3.5	50.5	10.7	35.3	92.3	5.1	54.3	401	55
Lab #0762	09-09-13	2.8	52.4	10.5	34.3	93.7	4.8	53.7	403	52
Stockpile #4										
Lab #0715	08-23-13	9.3	52.6	8.3	29.8	94.0	1.2	47.9	360	12
Lab #0760	09-09-13	10.1*	52.2	8.1	29.6	94.1	1.0	47.5	0	0
Lab #0896	10-07-13	9.6	53.1	8.4	28.9	93.9	1.0	47.2	355	9
Lab #1077	11-04-13	10.6*	52.0	8.2	29.2	94.0	1.2	47.1	0	0
Stockpile #6										
Lab #0716	08-23-13	3.3	51.0	9.7	36.0	85.3	4.9	54.6	372	53
Lab #0761	09-09-13	4.4	50.9	9.7	35.0	93.5	2.0	53.5	401	21
Lab #0895	10-07-13	2.6	38.6	6.6	52.2	41.9*	2.3	65.8	0	0
Lab #1078	11-04-13	4.8	53.0	8.4	33.8	86.6	4.2	52.1	361	44
Lab #1167	11-26-13	6.4	53.1	9.4	31.1	90.2	3.1	50.0	361	31
MERTENS CONST. CO-PRESTAGE QUARRY, TIPTON, MO										
Stockpile #1										
Lab #0497	07-02-13	4.0	48.2	6.8	41.0	76.5	6.4	57.1	350	73
Lab #0500	07-05-13	3.1	46.1	7.2	43.6	76.1	6.4	59.4	362	76
Lab #0503	07-10-13	3.9	47.9	7.6	40.6	76.4	6.2	57.1	349	71
Lab #0706	08-29-13	4.3	47.2	7.4	41.1	74.7	6.1	57.3	343	70
Lab #1052	10-31-13	6.8	28.0	9.3	55.9	71.1	5.4	68.5	390	74
Lab #1133	11-20-13	16.8*	44.1	6.5	32.6	78.3	5.6	47.5	0	0
Lab #1219	12-10-13	2.2	36.3	11.0	50.5	72.0	6.3	66.2	381	83
MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO										
Stockpile #1										
Lab #0609	08-15-13	7.5	54.2	10.0	28.3	90.5	1.0	47.9	346	10
Lab #0776	09-13-13	7.9	53.6	9.6	28.9	90.0	0.9	48.1	346	9
Lab #1044	10-31-13	7.8	52.0	9.4	30.8	88.7	1.5	49.4	351	15
Lab #1213	12-06-13	5.6	54.9	12.3	27.2	88.4	1.5	48.3	342	14
Stockpile #2										
Lab #0610	08-15-13	4.4	47.5	10.7	37.4	87.5	4.1	55.7	390	46
Lab #0777	09-13-13	3.9	45.0	12.0	39.1	80.4	3.5	57.6	370	40
Lab #1045	10-31-13	4.5	41.8	14.8	38.9	86.0	3.8	58.2	401	44
Lab #1177	12-06-13	6.3	46.3	10.2	37.2	85.2	4.4	54.9	374	48
MFA INC, COLUMBIA, MO										
MID-COUNTY MATERIALS, WAYNESVILLE, MO										
Stockpile #1										
Lab #0650	08-21-13	0.1	0.6	0.9	98.4	70.8	8.4	99.1	561	166
Lab #0815	09-19-13	0.5	2.3	1.7	95.5	72.3	8.4	97.1	562	163
Lab #1069	11-06-13	0.0	0.4	0.7	98.9	70.0	9.0	99.4	557	179
MID-MISSOURI LIMESTONE, INC-BIG SPR, KINGDOM CITY, MO										
Stockpile #1										
Lab #0528	08-02-13	5.9	57.8	8.4	27.9	93.5	0.2	47.4	354	2
Lab #0775	09-13-13	0.3	53.5	10.7	35.5	92.6	0.6	55.3	410	7
Lab #1023	10-25-13	4.6	57.2	9.7	28.5	91.6	0.2	48.6	356	2
Lab #1141	11-22-13	7.7	61.3	7.6	23.4	90.8	0.3	43.3	314	3
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Stockpile #1										
Lab #0600	08-15-13	7.2	49.0	11.8	32.0	91.9	1.2	51.3	377	12
Lab #0983	10-15-13	3.4	48.5	12.5	35.6	91.5	1.3	55.2	404	14
Lab #1224	12-09-13	3.5	45.3	14.4	36.8	87.8	0.1	56.8	399	1
MID-MISSOURI LIMESTONE, INC.-HOUSTO, KINGDOM CITY, MO										
Stockpile #1										
Lab #0862	09-30-13	4.4	50.7	8.2	36.7	81.4	4.8	54.3	354	52
Lab #0863	10-01-13	5.0	48.9	7.7	38.4	77.4	3.8	55.2	342	42
Lab #0921	10-08-13	5.5	49.3	8.7	36.5	79.7	4.7	54.0	345	51
MID-MISSOURI LIMESTONE-RIGGS, KINGDOM CITY, MO										
Stockpile #2										
Lab #0510	07-22-13	3.8	54.6	8.1	33.5	88.4	5.6	52.0	368	58
Lab #0642	08-22-13	4.6	55.6	7.6	32.2	88.6	6.2	50.7	359	63
Lab #0757	09-05-13	3.2	53.8	8.8	34.2	90.5	7.4	52.9	383	78
Lab #1008	10-07-13	3.1	55.4	8.7	32.8	86.4	5.4	51.9	359	56
Lab #1108	11-15-13	4.0	53.3	9.1	33.6	88.7	7.1	52.4	372	74
Lab #1171	12-03-13	2.9	52.1	9.5	35.5	86.9	6.3	54.2	377	68
MIDWEST MINERALS, INC - FORT SCOTT, PITTSBURG, KS										
MIDWEST MINERALS INC - JASPER, PITTSBURG, KS										
Stockpile #1										
Lab #0681	08-27-13	1.7	40.8	13.7	43.8	96.4	0.3	62.2	480	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
MINERALS PROCESSING, MAUMEE, OH										
MISSISSIPPI LIME COMPANY, STE. GENEVIEVE, MO										
Stockpile #1										
Lab #0739	09-04-13	0.0	0.4	0.6	99.0	98.1	0.2	99.5	781	4
Lab #0990	10-17-13	0.0	0.1	0.5	99.4	97.7	0.2	99.7	779	4
Lab #1230	12-11-13	0.0	0.2	0.6	99.2	97.3	0.2	99.6	775	4
Stockpile #3										
Lab #0740	09-04-13	0.0	45.5	28.4	26.1	98.3	0.2	54.5	429	2
Lab #0991	10-17-13	0.0	46.1	28.6	25.3	97.7	0.3	54.0	422	3
Lab #1231	12-11-13	0.0	44.6	28.6	26.8	97.4	0.3	55.1	429	3
MK MINERALS INC., WATHENA, KS										
Stockpile #1										
Lab #0585	08-06-13	0.0	0.9	2.3	96.8	88.7	0.6	98.4	698	12
Lab #0731	09-06-13	0.0	1.2	2.9	95.9	87.6	0.5	97.9	686	10
Lab #0905	10-02-13	0.0	0.7	2.2	97.1	89.0	0.5	98.6	702	10
Lab #1121	11-14-13	0.0	1.1	3.0	95.9	85.4	0.5	98.0	669	10
MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA										
MORRIS ROCK, DEERFIELD, MO										
MOUNTAIN GROVE QUARRY, MOUNTAIN GROVE, MO										
Stockpile #1										
Lab #1238	12-12-13	0.1	55.8	8.5	35.6	82.5	10.6	54.7	361	116
NELSON BROS. QUARRIES, JASPER, MO										
Stockpile #1										
Lab #0682	08-27-13	0.0	47.3	15.4	37.3	96.7	0.2	58.4	452	2
NEMO SAND & GRAVEL, QUARRY, PITTSBURG, MO										
Stockpile #1										
Lab #0539	08-01-13	5.0	45.3	6.5	43.2	85.5	10.2	58.4	400	119
Lab #0802	09-11-13	3.3	45.7	6.6	44.4	84.8	9.4	59.8	406	112
Lab #0948	10-08-13	0.3	43.3	8.5	47.9	83.9	10.3	63.8	428	131
Lab #1159	11-26-13	0.8	44.4	9.2	45.6	84.4	10.8	62.2	420	134
NORRIS QUARRIES, LLC-AMAZONIA, AMAZONIA, MO										
NORRIS QUARRIES, LLC-BARNARD, BARNARD, MO										
Stockpile #2										
Lab #0580	08-05-13	3.3	45.5	10.6	40.6	83.1	1.2	58.3	388	14
Lab #0586	08-09-13	4.4	47.3	9.9	38.4	83.4	1.4	56.2	375	16
Lab #0607	08-16-13	2.3	47.0	11.3	39.4	82.8	1.2	57.9	384	14
Lab #0688	08-28-13	3.0	45.4	11.2	40.4	79.1	1.5	58.5	370	18
Lab #0729	09-04-13	3.5	46.3	9.4	40.8	79.7	1.8	58.0	370	21
Lab #0834	09-25-13	2.3	43.7	11.1	42.9	76.3	1.6	60.5	369	19
Lab #1120	11-12-13	2.6	45.7	11.2	40.5	77.4	1.5	58.6	363	18
NORRIS QUARRIES, LLC-BETHANY, BETHANY, MO										
Stockpile #1										
Lab #0662	08-20-13	8.2	47.9	9.0	34.9	81.5	1.3	52.3	341	14
Lab #0796	09-12-13	8.7	52.2	7.9	31.2	85.5	1.3	49.0	335	13
Lab #0881	10-01-13	3.9	49.8	9.7	36.6	81.5	1.4	54.9	358	15
Lab #1087	11-04-13	4.9	51.6	8.9	34.6	82.0	1.3	52.8	347	14
NORRIS QUARRIES, LLC - BREIT, SAVANNAH, MO										
Stockpile #1										
Lab #0587	08-09-13	8.5	48.8	8.0	34.7	80.2	1.5	51.7	332	16
Lab #0835	09-26-13	7.9	53.3	7.0	31.8	78.8	1.5	49.3	311	15
Lab #1149	11-26-13	4.2	50.3	10.3	35.2	78.8	1.2	54.0	340	13
NORRIS QUARRIES, LLC-BLUE MOUND, DAWN, MO										
NORRIS QUARRIES, LLC-GALLATIN, GALLATIN, MO										
Stockpile #1										
Lab #0568	08-06-13	6.0	50.0	8.1	35.9	78.4	1.2	53.3	334	13
Lab #0700	08-27-13	6.1	50.3	7.8	35.8	78.8	1.1	53.1	334	12
NORRIS QUARRIES, LLC- GOODEN, RAVENWOOD, MO										
Stockpile #1										
Lab #0906	10-03-13	2.2	47.5	9.9	40.4	80.0	1.9	58.2	373	22
Lab #0944	10-10-13	1.5	42.8	10.2	45.5	75.9	2.3	62.3	378	29
Lab #0964	10-16-13	3.8	45.5	9.8	40.9	80.3	1.9	58.2	374	22
Lab #1056	11-01-13	1.5	35.4	10.2	52.9	74.9	2.3	67.9	407	31
Lab #1117	11-11-13	2.0	35.9	10.4	51.7	76.3	1.9	66.9	408	25
Lab #1190	12-06-13	3.0	45.3	10.4	41.3	80.3	1.8	58.9	378	21
NORRIS QUARRIES, LLC - EAST, HUNTSVILLE, MO										
Stockpile #1										
Lab #0996	10-19-13	6.8	54.9	10.1	28.2	87.6	1.6	48.0	336	15
Stockpile #2										
Lab #0611	08-12-13	4.0	51.1	12.0	32.9	95.2	1.6	52.9	403	17

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		+8	-8+40	-40+60	-60				ENM	EMg
NORRIS QUARRIES, LLC - EAST, HUNTSVILLE, MO (Continued)										
Stockpile #2										
Lab #0861	09-30-13	4.1	50.4	11.8	33.7	91.2	1.5	53.4	389	16
Lab #1129	11-18-13	5.2	50.0	11.3	33.5	89.2	1.3	52.8	377	14
NORRIS QUARRIES, LLC-JEFFRIES, CAMERON, MO										
NORRIS QUARRIES, LLC-MAITLAND, MAITLAND, MO										
Stockpile #3										
Lab #0579	08-05-13	7.0	48.4	10.1	34.5	87.4	0.7	52.7	368	7
Lab #0902	10-01-13	6.5	47.4	9.8	36.3	83.2	1.7	54.0	360	18
Lab #1119	11-12-13	6.5	44.1	9.2	40.2	74.8	3.2	56.7	340	36
Lab #1191	12-06-13	4.9	46.6	12.7	35.8	86.8	0.8	55.1	382	9
NORRIS QUARRIES, LLC-PRINCETON, PRINCETON, MO										
Stockpile #2										
Lab #0791	09-09-13	7.9	40.6	9.3	42.2	73.2	1.5	57.9	339	17
Lab #0792	09-10-13	4.6	39.1	10.1	46.2	70.9	1.5	62.0	352	19
Lab #0795	09-11-13	4.0	37.5	9.4	49.1	68.6	1.7	64.1	352	22
Lab #1000	10-16-13	11.8*	39.5	7.8	40.9	75.3	1.5	55.5	0	0
Lab #1088	11-05-13	12.5*	41.1	7.5	38.9	75.3	1.4	53.7	0	0
Stockpile #3										
Lab #0665	08-21-13	12.0*	37.2	7.9	42.9	74.4	1.5	56.9	0	0
Stockpile #4										
Lab #0852	09-24-13	3.1	39.1	10.6	47.2	72.4	1.5	63.3	367	19
Lab #0857	09-25-13	3.7	42.3	10.2	43.8	74.7	1.6	60.5	362	19
Lab #0858	09-26-13	5.2	42.4	9.4	43.0	74.7	1.6	59.2	354	19
Lab #1089	11-05-13	3.5	37.8	9.7	49.0	73.3	1.5	64.3	377	19
NORRIS QUARRIES, LLC- TRENTON, TRENTON, MO										
Stockpile #1										
Lab #1126	11-13-13	0.3	51.2	10.4	38.1	88.7	1.1	57.1	405	13
Lab #1127	11-14-13	9.7	49.7	9.0	31.6	90.0	1.3	49.4	356	13
Lab #1128	11-15-13	4.2	48.8	10.4	36.6	88.8	1.2	55.0	391	13
Stockpile #2										
Lab #0569	08-06-13	2.6	51.7	10.0	35.7	83.7	1.3	54.6	366	14
Lab #0703	08-28-13	7.0	49.1	10.2	33.7	89.9	1.2	52.1	375	13
Lab #0856	09-25-13	5.1	52.4	10.0	32.5	86.8	1.2	51.6	358	12
Lab #0932	10-10-13	15.5*	43.3	8.8	32.4	90.2	1.2	48.5	0	0
Lab #1051	11-01-13	13.4*	45.9	8.4	32.3	90.0	1.2	48.8	0	0
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 #0541	08-05-13	5.6	57.2	8.6	28.6	80.7	1.3	48.1	310	12
Lab #0769	09-13-13	4.1	46.3	15.4	34.2	85.6	0.6	55.0	377	7
Lab #0946	10-10-13	4.0	47.6	11.5	36.9	85.6	0.6	55.7	381	7
Lab #1033	10-28-13	3.6	39.7	16.9	39.8	81.8	0.9	59.9	392	11
Lab #1132	11-18-13	3.6	36.1	20.3	40.0	83.1	0.7	61.2	407	9
Lab #1220	12-11-13	4.6	55.0	11.1	29.3	78.8	1.3	49.7	313	13
S & A CONSTRUCTION LTD, ALLENDALE, MO										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Stockpile #3										
Lab #0617	08-14-13	1.9	10.1	26.5	61.5	99.6	11.6	79.9	637	185
Lab #0850	09-23-13	1.7	9.1	29.3	59.9	93.8	11.3	79.8	598	180
Lab #1075	11-06-13	7.4	24.5	27.8	40.3	99.3	12.6	63.1	501	159
SCHILDBERG CONST. CO.-DECATUR, GREENFIELD, IA										
Stockpile #1										
Lab #0523	08-02-13	3.6	46.2	8.1	42.1	75.9	1.2	58.5	355	14
Lab #0687	08-27-13	0.5	36.6	11.6	51.3	62.5*	1.6	67.4	0	0
Lab #0833	09-23-13	5.3	49.1	8.6	37.0	75.1	0.9	54.4	327	10
Lab #0901	09-30-13	1.5	42.1	10.6	45.8	64.9*	1.6	62.7	0	0
Lab #1114	11-04-13	3.4	45.9	9.3	41.4	72.9	1.0	58.5	341	12
Lab #1118	11-11-13	3.5	45.6	9.5	41.4	73.5	1.2	58.5	344	14
Lab #1148	11-25-13	4.4	40.8	8.8	46.0	71.3	1.2	61.5	351	15
SCHILDBERG CONST. CO.-GRAHAM MO Q, GREENFIELD, IA										
SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA										
Stockpile #2										
Lab #0524	08-02-13	6.2	48.3	9.4	36.1	86.2	1.0	53.8	371	11
Lab #0667	08-20-13	0.6	50.2	11.7	37.5	86.5	0.9	57.1	395	10

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		+8	-8+40	-40+60	-60				ENM	EMg
SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA (Continued)										
Stockpile #2										
Lab #0943	10-10-13	0.8	47.5	13.4	38.3	87.0	0.9	58.2	405	10
Lab #1147	11-25-13	5.9	50.9	10.1	33.1	86.5	1.6	51.9	359	17
SCHILDBERG CONST. CO.-WATTERSON, GREENFIELD, IA										
Stockpile #1										
Lab #0686	08-27-13	0.4	40.0	10.8	48.8	69.2	1.7	65.3	361	22
Lab #0728	09-03-13	0.7	39.0	10.8	49.5	73.0	1.7	65.7	384	22
Lab #0806	09-09-13	0.5	40.5	11.1	47.9	71.6	1.8	64.7	371	23
Lab #0832	09-23-13	0.3	38.0	11.5	50.2	72.5	2.3	66.6	386	31
Lab #0900	09-30-13	0.5	35.4	11.7	52.4	70.9	2.3	68.3	387	31
Lab #0945	10-11-13	0.1	33.2	14.7	52.0	72.1	2.1	69.1	399	29
SHAWNEE STONE - CYPRESS PLANT, CYPRESS, IL										
SHAWNEE STONE - JONESBORO PLANT, ANNA, IL										
Stockpile #2										
Lab #0542	08-05-13	3.4	32.0	12.3	52.3	98.5	0.7	67.7	533	9
Lab #0785	09-10-13	7.8	37.5	11.4	43.3	98.2	0.5	59.5	468	6
SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO										
Stockpile #1										
Lab #0589	08-12-13	6.7	38.5	10.4	44.4	90.2	10.7	60.3	435	129
Lab #0765	09-09-13	3.7	40.1	10.0	46.2	85.2	9.8	62.2	424	122
Lab #0864	10-01-13	9.1	48.3	7.8	34.8	85.1	10.1	51.6	351	104
Lab #1134	11-20-13	2.3	35.2	10.4	52.1	84.1	10.3	67.1	452	138
SKYLINE MATERIALS - NEWARK, DECORAH, IA										
Stockpile #1										
Lab #0505	07-11-13	10.3*	42.5	7.7	39.5	91.2	1.8	54.7	0	0
Lab #0506	07-19-13	10.1*	41.4	7.8	40.7	89.5	1.5	55.7	0	0
Lab #0512	07-22-13	6.5	37.8	7.8	47.9	87.4	2.1	62.0	434	26
Lab #0560	08-05-13	6.2	38.6	7.8	47.4	85.2	1.9	61.7	421	23
Lab #0640	08-22-13	6.9	38.9	8.4	45.8	86.2	2.0	60.6	418	24
Lab #0721	08-27-13	6.0	38.2	8.5	47.3	86.0	1.8	62.0	426	22
Stockpile #2										
Lab #0561	08-05-13	8.2	45.9	8.5	37.4	90.5	1.4	54.0	391	15
Stockpile #3										
Lab #0564	08-07-13	0.5	39.0	11.4	49.1	91.2	0.5	65.7	479	7
Lab #0641	08-22-13	0.5	41.1	11.2	47.2	91.3	0.7	64.2	469	9
Lab #0722	08-27-13	0.5	37.6	10.0	51.9	90.3	1.6	67.3	486	22
Lab #0845	09-24-13	0.7	40.8	11.2	47.3	89.7	0.8	64.2	461	10
Lab #1036	10-29-13	0.5	37.0	8.0	54.5	87.5	3.1	68.6	480	43
Lab #1162	11-20-13	0.8	37.2	8.4	53.6	89.3	3.3	67.9	485	45
SKYLINE MATERIALS-GLASGOW, GLASGOW, MO										
SOUTH CENTRAL COOP, CAINSVILLE, MO										
Stockpile #1										
Lab #0664	08-21-13	0.0	0.3	1.5	98.2	93.7	0.1	99.2	743	2
Lab #0771	09-11-13	0.0	0.7	1.3	98.0	92.7	0.1	99.0	734	2
SMASAL AGGREGATE, LINCOLN, MO										
Stockpile #1										
Lab #0672	08-22-13	0.7	41.9	13.1	44.3	88.6	0.2	62.6	444	3
Lab #0952	10-10-13	0.4	42.3	13.5	43.8	89.2	0.5	62.5	446	6
Lab #1202	12-05-13	0.3	42.5	14.4	42.8	87.9	0.4	62.1	436	5
SPRINGFIELD AGGREGATE SUPPLY, REPUBLIC, MO										
Stockpile #1										
Lab #0678	08-23-13	0.2	0.7	1.2	97.9	94.2	0.6	98.8	745	12
Lab #1041	10-30-13	0.1	1.1	2.1	96.7	94.5	0.7	98.2	743	14
SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO										
Stockpile #2										
Lab #0826	09-17-13	0.2	16.0	15.7	68.1	97.0	0.1	81.5	633	2
Lab #1192	12-02-13	3.6	27.3	12.8	56.3	96.6	0.2	70.8	547	3
S-S-S INC, LOUISIANA, MO										
Stockpile #1										
Lab #0633	08-14-13	3.0	46.2	11.7	39.1	92.7	0.2	57.7	428	2
Lab #0827	09-17-13	3.1	44.9	10.8	41.2	92.1	0.5	58.9	434	6
Lab #0894	10-04-13	1.6	44.6	11.0	42.8	93.0	0.9	60.6	450	11
Lab #1104	11-14-13	1.0	41.9	13.8	43.3	93.1	0.8	62.1	462	10
Lab #1206	12-04-13	2.1	44.9	11.8	41.2	93.8	0.6	59.5	447	7
STOCKMAN QUARRY, LLC, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0557	08-07-13	1.2	28.1	13.6	57.1	87.5	10.7	72.3	506	155
Lab #0810	09-16-13	4.1	34.3	10.6	51.0	87.0	10.3	65.9	459	136

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
STOCKMAN QUARRY, LLC, JEFFERSON CITY, MO										
Stockpile #2										
Lab #1020	10-23-13	11.3*	34.9	9.6	44.2	81.2	10.2	58.7	0	0
STRACK STONE, CAPE GIRARDEAU, MO										
STRACK STONE - FRUITLAND, JACKSON, MO										
STRACK STONE CO. - LODI, LLC, CAPE GIRARDEAU, MO										
T&M STONE QUARRY, LLC, WHITEWATER, MO										
TABLE ROCK ASPHALT CONST CO INC, BRANSON, MO										
Stockpile #1										
Lab #0868	09-23-13	17.1*	40.8	6.0	36.1	84.9	9.9	49.9	0	0
TAYLOR QUARRIES, LOCKWOOD, MO										
TOWER ROCK STONE CO, SCOTT CITY, MO										
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Stockpile #1										
Lab #0741	09-04-13	0.1	37.2	15.0	47.7	96.6	0.9	66.0	510	12
Lab #0986	10-17-13	1.7	37.4	15.1	45.8	92.3	2.9	64.2	474	37
Lab #1226	12-11-13	0.0	42.6	16.8	40.6	91.0	2.6	61.3	446	32
Stockpile #2										
Lab #0989	10-17-13	3.7	40.3	12.2	43.8	95.1	7.0	61.2	466	86
Lab #1229	12-11-13	0.2	36.7	14.3	48.8	94.0	4.8	66.6	500	64
Stockpile #3										
Lab #0742	09-04-13	0.8	36.5	18.0	44.7	96.8	0.2	64.6	500	3
Lab #0987	10-17-13	0.6	38.9	16.5	44.0	96.0	0.6	63.6	489	8
Lab #1227	12-11-13	0.2	40.7	19.1	40.0	96.4	0.4	61.6	475	5
Stockpile #5										
Lab #0743	09-04-13	7.6	49.5	10.6	32.3	93.1	1.4	51.0	380	14
Lab #0988	10-17-13	8.6	50.9	10.2	30.3	90.4	0.5	49.1	355	5
Lab #1228	12-11-13	7.8	47.3	12.6	32.3	90.8	0.6	51.7	375	6
TRAGER LIMESTONE-NETTLETON, CHILLICOTHE, MO										
Stockpile #1										
Lab #0519	08-02-13	0.2	51.2	10.9	37.7	85.4	0.7	57.0	390	8
Lab #0705	08-30-13	0.2	48.8	11.9	39.1	78.7	1.1	58.4	368	13
Lab #0926	10-09-13	0.2	50.8	11.5	37.5	83.1	0.9	57.1	380	10
Lab #1050	10-30-13	0.3	54.7	10.4	34.6	82.9	0.8	54.5	362	9
TRAGER LIMESTONE LLC-GALLATIN, CHILLOTHIE, MO										
Stockpile #1										
Lab #0518	08-02-13	0.1	56.5	10.9	32.5	83.5	0.6	53.2	355	6
Lab #0701	08-27-13	0.9	49.5	12.3	37.3	85.7	0.5	57.1	391	6
Lab #0923	10-07-13	0.1	53.6	12.0	34.3	84.8	0.5	54.9	372	5
Lab #1049	10-30-13	0.2	50.6	13.1	36.1	83.1	0.6	56.6	376	7
TRI COUNTY WATER AUTHORITY, INDEPENDENCE, MO										
Stockpile #1										
Lab #0601	08-16-13	1.1	15.3	12.6	71.0	86.7	1.1	82.4	571	18
Lab #0735	09-06-13	1.5	1.8	1.1	95.6	81.1	1.4	96.7	627	27
Lab #0916	10-07-13	2.1	19.3	18.4	60.2	89.4	1.0	76.1	544	15
Lab #1073	11-07-13	0.0	1.1	0.6	98.3	91.6	2.0	98.9	725	40
UEHLIN QUARRY, AMAZONIA, MO										
UNITED SUPPLIERS, ELDORA, IA										
WADE AG PRODUCTS-MAIN OFC, LACYGNE, KS										
Stockpile #2										
Lab #0694	08-28-13	5.5	52.3	9.5	32.7	90.0	0.8	51.5	371	8
Lab #0910	10-01-13	5.4	50.4	10.0	34.2	89.6	0.9	52.8	378	10
Lab #1155	11-25-13	6.7	51.9	8.8	32.6	89.1	1.1	50.9	362	11
WADE AG PRODUCTS Q DREXEL, LACYGNE, KS										
WASHINGTON COUNTY AGGREGATES, INC., POTOSI, MO										
Stockpile #1										
Lab #0708	08-29-13	0.6	39.7	15.0	44.7	94.5	11.2	63.6	481	143
Lab #0837	09-26-13	1.1	40.6	13.7	44.6	96.6	11.5	63.0	487	145
FRED WEBER INC.-AUBURN QUARRY, MARYLAND HEIGHTS, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Stockpile #1										
Lab #0637	08-20-13	2.0	24.3	8.4	65.3	89.0	2.0	76.4	544	31
Lab #0828	09-18-13	1.6	12.2	9.3	76.9	88.4	1.4	85.5	605	24
Lab #1011	10-15-13	3.0	20.9	8.8	67.3	88.7	1.9	77.8	552	30
Lab #1245	12-10-13	2.4	21.6	10.2	65.8	89.3	2.5	77.3	552	39
FRED WEBER, INC - FESTUS STONE, FESTUS, MO										
FRED WEBER, INC - FOLEY QUARRY, MARYLAND HEIGHTS, MO										

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2013

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
FRED WEBER, INC.-NEW MELLE STONE, NEW MELLE, MO										
Stockpile #1										
Lab #0647	08-20-13	3.2	9.6	10.0	77.2	95.9	2.8	85.6	657	48
Stockpile #2										
Lab #0499	07-03-13	5.9	11.4	9.9	72.8	96.1	2.8	81.6	627	46
Lab #0501	07-05-13	6.3	13.5	10.1	70.1	95.8	2.8	79.5	610	45
Lab #0504	07-11-13	6.8	15.2	10.6	67.4	95.2	2.8	77.6	591	43
Lab #1043	10-30-13	3.3	11.0	10.2	75.5	94.1	2.5	84.4	635	42
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Stockpile #1										
Lab #0661	08-19-13	1.0	11.3	12.5	75.2	93.3	2.2	85.5	638	38
Lab #0879	10-03-13	0.4	16.5	17.1	66.0	92.9	1.5	80.4	597	24
Lab #1182	12-03-13	0.2	6.5	6.8	86.5	93.5	3.0	92.2	690	55
FRED WEBER, INC. - SOUTH STONE, ST. LOUIS, MO										
Stockpile #1										
Lab #0660	08-19-13	0.4	17.5	14.8	67.3	91.0	3.5	80.6	586	56
Lab #0880	10-03-13	0.4	17.9	14.6	67.1	90.4	3.6	80.3	581	58
Lab #1181	12-03-13	0.7	17.2	15.5	66.6	90.2	3.6	80.2	579	58
WHITE ROCK QUARRIES OF LINCOLN CO, ELSBERRY, MO										
Stockpile #1										
Lab #0629	08-12-13	10.2*	44.1	10.3	35.4	95.6	0.1	52.6	0	0
Lab #0783	09-12-13	4.7	46.4	12.2	36.7	94.6	0.2	55.6	421	2
Lab #1034	10-22-13	9.7	51.3	10.0	29.0	92.5	0.3	47.8	354	3
Lab #1105	11-14-13	5.2	47.8	11.2	35.8	94.7	0.1	54.5	413	1
Lab #1207	12-04-13	4.8	45.8	10.9	38.5	95.1	0.1	56.5	430	1
WILKERSON BROS QUARRY, PARIS, MO										
Stockpile #3										
Lab #0509	07-19-13	4.8	47.8	11.5	35.9	89.8	0.5	54.8	393	5
Lab #0631	08-13-13	2.4	49.6	11.9	36.1	91.6	0.5	55.6	408	6
Lab #0759	09-06-13	0.6	46.1	12.3	41.0	91.5	3.6	59.9	439	43
Lab #0889	10-02-13	0.9	46.5	12.8	39.8	88.9	2.2	59.1	420	26
Lab #1106	11-15-13	1.6	48.2	12.7	37.5	90.6	1.0	57.2	414	11
WILLARD ASPHALT - #18 SLEEPER, LEBANON, MO										
Stockpile #1										
Lab #0797	09-09-13	0.0	0.6	1.9	97.5	86.0	9.7	98.8	680	192
Lab #0908	09-30-13	0.1	0.7	2.0	97.2	85.4	10.3	98.6	673	203
Lab #1058	10-30-13	0.3	0.9	1.4	97.4	86.3	10.8	98.5	680	213
WILLARD ASPHALT PAVING,- #19, LEBANON, MO										
Stockpile #1										
Lab #0652	08-21-13	0.0	0.1	1.0	98.9	88.1	10.3	99.5	701	205
Lab #0817	09-19-13	0.0	0.9	0.8	98.3	88.1	10.5	99.0	698	208
Lab #1071	11-06-13	0.0	0.8	1.4	97.8	87.1	11.4	98.8	689	225
WILLARD QUARRY-SLEEPER, LEBANON, MO										
Stockpile #3										
Lab #0798	09-09-13	0.3	37.7	14.1	47.9	88.4	9.9	65.8	465	130
Lab #0907	09-30-13	0.2	32.9	17.0	49.9	91.7	11.3	68.3	501	154
Lab #1059	10-30-13	0.4	37.6	13.0	49.0	87.7	11.1	66.2	464	147
WILLARD QUARRIES- ST ROBERT, LEBANON, MO										
Stockpile #1										
Lab #0651	08-21-13	0.3	39.3	17.4	43.0	91.4	11.5	63.3	463	146
Lab #0816	09-19-13	0.3	41.6	20.2	37.9	96.1	11.3	60.4	465	137
Lab #1070	11-06-13	0.4	36.8	20.0	42.8	90.1	11.7	64.0	461	150
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Stockpile #1										
Lab #0618	08-14-13	0.4	33.1	13.0	53.5	92.3	10.9	69.6	514	152
Lab #0851	09-23-13	0.8	34.6	13.5	51.1	96.0	11.0	67.9	521	149
Lab #1076	11-06-13	0.9	33.4	13.8	51.9	92.6	11.7	68.5	508	160

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2013

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										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0922	10-09-13	2.9	24.7	9.5	62.9	89.9	2.2	74.8	538	33
GFG - BETHANY, BETHANY, MO										
MK MINERALS INC., WATHENA, KS										
Lab #1024	10-21-13	0.0	2.4	3.9	93.7	88.0	0.5	96.6	680	10
DICKERSON FEED & GRAIN, LUCERNE, MO										
CALCIUM PRODUCTS, INC., GILMORE CITY, IA										
Lab #1027	10-23-13	0.0	1.1	2.0	96.9	92.8	0.1	98.4	730	2
FARMER'S COOP #280, FREEBURG, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0941	10-07-13	0.1	4.8	6.1	89.0	89.5	2.9	93.9	672	54
GAGE'S FERTILIZER & GRAIN INC, BETHANY, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0663	08-20-13	0.0	0.8	2.2	97.0	85.1	0.5	98.5	671	10
GIBSON LIME CO-DEXTER, DEXTER, MO										
SCAGGS ROCK-N-LIME, INC., PATTERSON, MO										
Lab #1047	10-29-13	4.1	16.9	26.3	52.7	96.9	11.9	72.7	564	173
HEARTLAND MATERIALS LLC, JACKSON, MO										
Lab #1048	10-29-13	0.3	33.2	16.7	49.8	96.5	2.2	68.1	526	30
HEIMSOOTH AG SERVICE, CORDER, MO										
APAC-MISSOURI, INC. - MARSHALL, MARSHALL, MO										
Lab #0679	08-27-13	1.6	52.7	11.9	33.8	89.3	0.2	54.1	387	2
HELENA CHEMICAL COMPANY-HARRIS, NEWTOWN, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0574	08-08-13	0.0	0.3	2.3	97.4	88.6	0.6	98.9	701	12
HELENA CHEMICAL COMPANY-EAST, UNIONVILLE, MO										
MK MINERALS INC., WATHENA, KS										
Lab #0699	08-26-13	0.1	0.6	2.6	96.7	89.2	0.5	98.4	702	10
HOFFMAN & REED INC, TRENTON, MO										
HOFFMAN & REED INC, TRENTON, MO										
Lab #0931	10-10-13	0.0	0.7	2.1	97.2	89.7	0.5	98.6	708	10
KEENEY FERTILIZER, OWENSVILLE, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Lab #0772	09-09-13	0.3	1.2	1.5	97.0	93.1	3.4	98.2	731	67
MFA AGRI SERVICES, CROCKER, MO										
CONCO QUARRIES INC, SPRINGFIELD, MO										
Lab #0649	08-21-13	0.1	9.2	14.7	76.0	97.1	0.8	87.1	677	14
Lab #0813	09-19-13	0.0	11.0	14.4	74.6	94.9	1.0	86.0	653	17
Lab #1178	12-02-13	0.0	12.9	14.8	72.3	94.6	0.9	84.4	639	15
LOHMAN PRODUCERS EXCHANGE, LOHMAN, MO										
MFA INC, COLUMBIA, MO										
Lab #0707	08-26-13	3.4	16.4	8.6	71.6	87.7	1.9	80.9	567	31
MFA COOP #130, RHINELAND, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0818	09-20-13	1.5	19.6	7.7	71.2	89.6	2.3	80.7	579	37
Lab #0982	10-14-13	1.0	18.4	7.7	72.9	88.8	2.3	82.1	583	38
MFA AGRI SERVICE, KIRKSVILLE, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0612	08-14-13	0.5	11.4	6.3	81.8	88.0	2.2	88.4	623	39
MFA EXCHANGE, CHAMOI, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Lab #0981	10-14-13	0.8	9.2	9.3	80.7	92.2	2.4	88.6	653	43
MFA EXCHANGE, META, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0939	10-07-13	2.7	25.3	9.6	62.4	90.6	2.1	74.5	540	31
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
Lab #1135	11-13-13	1.9	22.1	7.1	68.9	87.5	11.0	78.7	551	173
MFA AGRI SERVICE, BETHANY, MO										
MFA INC, COLUMBIA, MO										
Lab #1025	10-21-13	0.0	1.1	2.4	96.5	88.8	0.5	98.2	698	10
MFA AGRI SERVICE, BROOKFIELD, MO										
MFA INC, COLUMBIA, MO										
Lab #0748	09-03-13	0.0	0.4	2.3	97.3	87.5	0.5	98.8	691	10
Lab #1028	10-25-13	0.0	0.9	2.8	96.3	87.1	0.5	98.2	684	10
Lab #1131	11-20-13	0.0	0.9	2.3	96.8	87.2	0.5	98.4	686	10
MFA AGRI SERVICE, BROWNING, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0793	09-10-13	0.1	4.8	4.8	90.3	85.8	2.0	94.4	648	38

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2013

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-WEST, HALE, MO										
		KELLY LIMESTONE LLC, KIRKSVILLE, MO								
Lab #0749	09-06-13	0.1	2.8	3.8	93.3	87.2	1.5	96.3	672	29
		MFA INC, COLUMBIA, MO								
Lab #1026	10-22-13	1.8	27.6	9.5	61.1	89.4	2.3	73.7	527	34
MFA AGRI SERVICE, NORBORNE, MO										
		MFA INC, COLUMBIA, MO								
Lab #1221	12-11-13	1.9	27.3	10.3	60.5	89.1	2.4	73.5	524	35
MFA AGRI SERVICE, JEFFERSON CITY, MO										
		MFA INC, COLUMBIA, MO								
Lab #0555	08-06-13	0.0	5.6	5.6	88.8	85.9	1.9	93.6	643	36
Lab #0774	09-12-13	0.1	5.5	4.9	89.5	86.0	1.7	93.8	645	32
MFA AGRI SERVICE, LANCASTER, MO										
		KELLY LIMESTONE LLC, KIRKSVILLE, MO								
Lab #0570	08-07-13	0.2	4.3	4.3	91.2	85.0	2.0	94.9	645	38
MFA AGRI SERVICES, LINEVILLE, IA										
		KELLY LIMESTONE LLC, KIRKSVILLE, MO								
Lab #0859	09-26-13	0.2	3.2	4.3	92.3	84.7	2.2	95.7	648	42
MFA AGRI SERVICE, MILAN, MO										
		KELLY LIMESTONE LLC, KIRKSVILLE, MO								
Lab #0770	09-09-13	0.4	8.1	8.7	82.8	85.0	1.8	90.0	612	32
Lab #0925	10-08-13	0.0	1.6	2.8	95.6	83.9	0.5	97.7	656	10
Lab #1029	10-28-13	0.0	1.2	2.9	95.9	84.7	0.5	97.9	664	10
MFA AGRI SERVICE, ODESSA, MO										
		FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL								
Lab #0947	10-11-13	1.4	18.6	10.3	69.7	89.2	1.4	80.5	575	23
MFA AGRI SERVICE, OWENSVILLE, MO										
		BUSSEN QUARRIES, INC.-ANTIRE QUARRY, ST LOUIS, MO								
Lab #1019	10-22-13	0.2	1.5	1.7	96.6	96.8	5.3	98.0	759	104
Lab #1142	11-26-13	0.1	0.9	1.7	97.3	96.4	7.3	98.5	760	144
		FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO								
Lab #0811	09-17-13	0.9	5.2	5.4	88.5	93.1	3.0	93.0	693	56
MFA AGRI SERVICE, ST CLAIR, MO										
		MFA INC, COLUMBIA, MO								
Lab #0655	08-22-13	0.0	0.4	0.4	99.2	92.1	0.2	99.5	733	4
		MFA INC, COLUMBIA, MO								
Lab #0654	08-22-13	0.5	0.6	1.6	97.3	98.0	6.5	98.4	772	128
MFA AGRI SERVICE, STE GENEVIEVE, MO										
		MFA INC, COLUMBIA, MO								
Lab #0985	10-17-13	2.0	22.9	9.4	65.7	88.6	1.8	77.1	546	28
MFA EXCHANGE, SALEM, MO										
		FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL								
Lab #1136	11-14-13	4.6	21.1	9.7	64.6	89.8	2.1	75.7	544	32
		CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO								
Lab #1137	11-14-13	2.5	22.9	7.9	66.7	88.4	11.1	77.2	546	171
MFA AGRI SERVICE, SALISBURY, MO										
		KELLY LIMESTONE LLC, KIRKSVILLE, MO								
Lab #0830	09-26-13	3.4	16.8	9.2	70.6	89.5	1.7	80.3	575	27
MFA AGRI SERVICE, TRENTON, MO										
		MFA INC, COLUMBIA, MO								
Lab #0666	08-21-13	0.0	0.3	2.5	97.2	89.5	0.5	98.8	707	10
Lab #0794	09-11-13	0.0	0.6	2.6	96.8	89.8	0.5	98.5	708	10
Lab #0930	10-10-13	0.0	0.9	2.7	96.4	89.7	0.5	98.2	705	10
Lab #1130	11-19-13	0.0	0.5	2.9	96.6	88.7	0.5	98.5	699	10
MFA AGRI SERVICE, VERSAILLES, MO										
		MFA INC, COLUMBIA, MO								
Lab #1032	10-23-13	0.0	0.8	2.4	96.8	88.5	0.6	98.4	697	12
MIDWEST FERTILIZER, METZ, MO										
		MK MINERALS, INC., WAMEGO, KS								
Lab #1113	11-14-13	0.0	1.0	3.0	96.0	88.9	0.5	98.1	697	10
LEO O'LAUGHLIN, MACON, MO										
		CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO								
Lab #0614	08-15-13	5.2	45.5	12.2	37.1	88.6	0.2	55.8	395	2
Lab #0860	09-27-13	2.6	27.7	13.1	56.6	90.6	1.9	71.4	517	27
Lab #1091	11-08-13	2.3	23.4	12.4	61.9	89.6	3.8	75.2	539	57
LEO O'LAUGHLIN INC, MARCELINE, MO										
		SHELBY CO. STONE, SHELBY, MO								
Lab #0615	08-15-13	0.7	30.7	14.6	54.0	90.9	0.4	70.4	512	6
		CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO								
Lab #1092	11-08-13	1.9	21.9	11.7	64.5	89.0	3.7	77.0	548	57

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2013

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
R & M FEED, POTOSI, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #0710	08-29-13	3.4	21.1	8.9	66.6	89.4	2.1	77.2	552	32
RICHLAND PLANT FOODS, RICHLAND, MO										
WILLARD QUARRIES- ST ROBERT, LEBANON, MO										
Lab #1068	11-06-13	0.1	0.9	1.9	97.1	84.3	10.9	98.5	664	215
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0814	09-19-13	0.1	10.4	14.1	75.4	95.1	0.8	86.5	658	14
SCHAEPERKOETTER STORE, MT STERLING, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Lab #0836	09-25-13	0.7	6.7	6.7	85.9	92.7	3.0	91.6	679	55
Lab #1062	11-07-13	0.1	1.8	2.4	95.7	92.6	3.2	97.6	723	62
SKYLINE MATERIALS, LA PLATA, MO										
SKYLINE MATERIALS - NEWARK, DECORAH, IA										
Lab #0613	08-14-13	3.9	38.1	8.9	49.1	91.2	1.9	64.0	467	24
Lab #0883	10-02-13	4.6	40.7	10.5	44.2	91.4	0.9	60.7	444	11
Lab #1122	11-11-13	6.3	37.7	8.8	47.2	91.0	1.3	61.9	451	16
SKYLINE MATERIALS, MARCELINE, MO										
SKYLINE MATERIALS-GLASGOW, GLASGOW, MO										
Lab #0616	08-15-13	3.5	51.9	9.2	35.4	86.5	6.1	53.9	373	66
STRAATMANN FEED, LABADIE, MO										
LANGE STEGMANN FERTILIZER, ST LOUIS, MO										
Lab #1214	12-03-13	3.1	24.8	9.3	62.8	89.0	2.4	74.6	531	36
WEST CENTRAL AGRI SERVICE, LLC, CENTERVIEW, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Lab #1100	11-11-13	2.4	26.5	9.6	61.5	88.8	2.1	73.9	525	31
WHITWORTH AG SPECIALTIES, WORTHINGTON, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0571	08-07-13	0.1	3.9	3.3	92.7	87.5	0.8	95.7	670	15
Lab #0882	10-02-13	0.2	3.2	3.7	92.9	87.0	0.7	95.9	668	13
Lab #1090	11-07-13	0.2	3.9	3.8	92.1	85.6	0.9	95.4	653	17

**College of Agriculture, Food and Natural Resources
Fertilizer/Ag Lime Program
FY13 Income & Disbursements¹**

	Ag Lime Fees	Fertilizer Fees	Other	Combined
CARRYFORWARD (07/01/12)				
Contingency			299,414.16	299,414.16
Income Transferred in FY13 for FY12			331,888.30	331,888.30
Other			<u>(424,015.61)</u>	<u>(424,015.61)</u>
Total Carryforward Available			207,286.85	207,286.85
 REVENUE				
Tonnage Fees	131,235.76	1,136,097.20		1,267,332.96
Audits		2,439.99		2,439.99
Permit Fees	21,600.00	134,500.00		156,100.00
Deficiency Payments	0.00	16,473.11		16,473.11
Late Payment Fees	3,431.22	15,431.06		18,862.28
Total Revenue Available	<u>156,266.98</u>	<u>1,304,941.36</u>		<u>1,461,208.34</u>
 Total Funds Available	<u>156,266.98</u>	<u>1,304,941.36</u>	<u>207,286.85</u>	<u>1,668,495.19</u>
 DISBURSEMENTS				
AES Chemical Laboratory				
Analytical Services				436,207.24
Experiment Stations Chem Lab Support ²				66,053.68
Special Equipment Reserve ³				35,000.00
Inspection Services				603,980.23
Annual Research Report				4,963.61
Research Proposals Funded				
Continuing Proposals				
FY10				7,506.00
FY11				139,671.00
FY12				157,167.00
Total Continuing Proposals				304,344.00
New Proposals				
FY13				141,486.00
Total Disbursements				<u>1,592,034.76</u>
Continuing Research Proposals Funded (Conditional upon submission of satisfactory progress reports)				
 CONTINGENCY/FUNDS AVAILABLE				
Contingency Funds Held in Reserve				68,000.00
Contingency Funds Held to fund Continuing Research Proposals				0.00
Unencumbered Funds ⁴				<u>8,460.43</u>
Total Contingency				<u>76,460.43</u>
 Total Disbursements/Contingency				<u>1,668,495.19</u>

Footnotes:

¹ Fertilizer/Ag Lime Program Disbursements prepared by Ag Business Services (ABS)

² S&W support to Experiment Station Chem Lab administrative personnel

³ Per June 30, 1998 Fertilizer/Ag Lime Committee meeting minutes, a \$50,000 (later changed to \$35,000)

equipment reserve has been made available to T. Mawhinney for equipment upgrades in Analytical Services.

⁴ Held in reserve to fund second and third year of multi-year research proposals.



Agricultural Experiment Station

University of Missouri-Columbia

Office of the Director
Fertilizer Control Services

Columbia, MO 65211

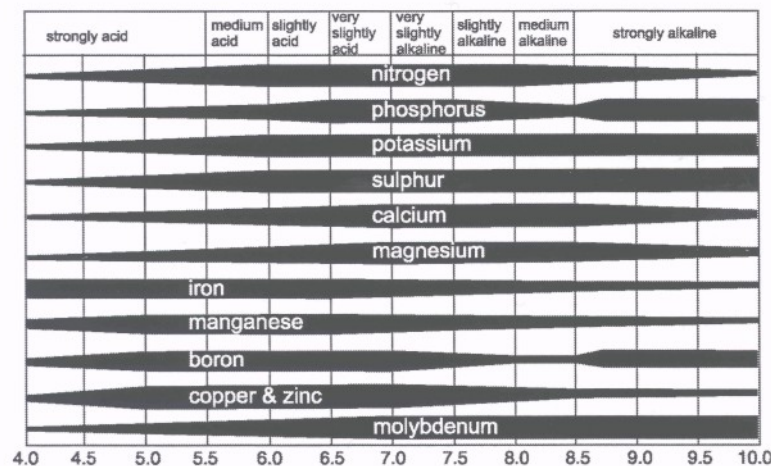
PHONE (573) 882-3891

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Recent research is demonstrating the value in the decision for the sieves chosen to qualify material as Agricultural Limestone in Missouri. The current specifications provide predictably for your ag lime buyers on how frequently they need to soil test and reapply to maintain proper soil pH. Currently they should be testing every 3 to 5 years. Please review the chart below on nutrient availability. Missouri ag producers are being asked to reduce or eliminate nutrient runoff from their fields to protect the Gulf of Mexico, proper pH is an important tool in their toolbox to keep the nutrients paid for, on their property.

As we approach the 40th year anniversary of the adoption of the Missouri Agricultural Liming Materials Law and Rules, we need to remember the background work that went into the adoption of all of the provisions contained therein. Dr. Daryl Buchholz and Dr. Jim Brown were the University of Missouri Agronomists who provided guidance through research and a thorough literature review of the scientific research to provide guidance on quality standards to the committee who was drafting the law and rules at the time. The good Doctors were well aware of the guidelines as outlined in the chart below on the affect that soil pH has on nutrient availability. There is an optimum pH range when an agricultural producer is going to realize the maximum economic benefit from the nutrient inputs. Being below the range, lack of soil neutralization through timely application of ag lime; or above the range by too large an application or uncontrollable release of liming materials applied is equally detrimental to the producer on the utilization of the fertilizers applied to produce a crop.



Agricultural Limestone is defined as finely ground or crushed limestone, either calcitic or dolomitic, which shall have a minimum specification of ninety percent (90%) of the materials passing through a United States standard number eight sieve;

The guidelines provided and agreed to by the Missouri Ag Lime Producers on the committee, knowing the capability of their equipment to produce high quality agricultural limestone, are the basis for Missouri's Ag Lime Law. The standards adopted allow soil test labs to make recommendations to agricultural producers based on soil testing to make correct applications of ag lime to apply to move the pH into the optimum zone for nutrient utilization. The standard adopted is intended to provide the potential release curve of the ag liming materials for pH adjustment for a three year period of time.

There is not definition in the Missouri Ag Liming Materials Law and Rules for: Screenings, Dust, Tailings, Chips, Fines, etc.; after all, rocks are rocks. These materials have their uses, and they are non-ag related when one is speaking of soil pH adjustment. Ag related if you are back filling fence posts, bedding waterlines or creating livestock loafing areas.

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)