

**Missouri
Agricultural Liming
Materials Report**

July 1 to December 31, 2004

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, 2003. There were 1033 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. Twenty-one deficient samples are reported, eighteen for excessive coarseness and three for low CCE. There were four "stop sale" order's issued against producer stockpiles for excessive coarseness. Corrective actions taken by the producers have resulted in the release of one of the issued "stop sale" orders.

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

* PRELIMINARY ESTIMATE

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

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										
Stockpile #1										
Lab #1056	08-24-04	0.4	38.7	7.2	53.7	82.6	9.8	67.7	447	133
Lab #1205	09-20-04	0.5	52.3	5.8	41.4	86.5	10.3	58.0	401	119
Lab #1465	11-03-04	0.1	47.3	8.0	44.6	88.0	10.4	61.2	431	127
ADRIAN QUARRY LLC, ADRIAN, MO										
Stockpile #2										
Lab #0877	08-02-04	0.1	45.3	12.1	42.5	81.2	0.7	61.1	397	9
Lab #1144	09-08-04	0.9	44.4	12.7	42.0	79.7	0.6	60.7	387	7
Lab #1350	10-12-04	4.7	53.2	9.6	32.5	87.4	0.5	51.6	361	5
AIRGAS - MID AMERICA, MOUNTAIN GROVE, MO										
ALBY QUARRY, CARLINVILLE, IL										
ALLEN QUARRIES INC, LOCKWOOD, MO										
Stockpile #1										
Lab #0902	08-04-04	1.7	45.5	14.6	38.2	91.4	0.5	58.3	427	6
Lab #1520	11-10-04	0.9	40.7	16.9	41.5	95.6	1.1	61.8	473	14
ANNA QUARRY, ANNA, IL										
Stockpile #1										
Lab #0858	07-12-04	0.1	47.5	14.1	38.3	94.2	3.5	58.6	442	41
Lab #0982	08-10-04	0.2	43.3	16.1	40.4	91.1	3.9	60.9	444	47
Lab #1160	09-15-04	0.3	38.9	11.9	48.9	93.0	2.4	65.8	489	32
Lab #1362	10-14-04	0.3	46.2	12.8	40.7	91.7	2.7	59.9	440	32
APAC-MISSOURI, INC. - BOONVILLE, COLUMBIA, MO										
Stockpile #1										
Lab #0882	08-02-04	1.0	46.5	13.0	39.5	93.4	0.2	58.9	440	2
Lab #1169	09-09-04	4.3	46.7	13.3	35.7	91.9	0.2	55.4	407	2
Lab #1289	10-04-04	5.0	47.3	12.9	34.8	93.4	0.3	54.4	406	3
Lab #1506	11-08-04	5.8	46.3	12.3	35.6	92.6	0.2	54.6	404	2
APAC-MISSOURI GALLATIN, GALLATIN, MO										
Stockpile #1										
Lab #1035	08-16-04	6.3	48.2	8.4	37.1	73.4	1.4	54.2	318	15
Lab #1179	09-13-04	6.7	49.0	8.3	36.0	76.2	1.1	53.2	324	12
Lab #1290	10-07-04	5.1	51.1	8.6	35.2	78.3	0.4	53.1	333	4
Lab #1517	11-11-04	5.4	48.7	9.0	36.9	74.7	1.0	54.5	326	11
Lab #1602	12-03-04	6.3	48.9	8.1	36.7	74.3	1.1	53.8	320	12
Stockpile #2										
Lab #1034	08-16-04	7.8	48.5	7.6	36.1	73.1	1.2	52.8	309	13
Lab #1178	09-13-04	7.9	52.9	8.0	31.2	76.9	0.9	49.2	303	9
Lab #1296	10-07-04	7.6	54.8	8.2	29.4	78.9	0.8	48.0	303	8
Lab #1518	11-11-04	8.6	50.6	7.3	33.5	78.5	0.9	50.5	317	9
Lab #1601	12-03-04	6.1	54.4	8.4	31.1	77.3	1.0	49.7	308	10
APAC-MISSOURI, INC. - LANAGAN, COLUMBIA, MO										
Stockpile #1										
Lab #0991	08-10-04	0.3	43.9	15.4	40.4	88.3	0.7	60.6	428	8
Lab #1261	09-27-04	1.0	46.0	15.7	37.3	90.3	0.7	58.2	421	8
Lab #1573	11-17-04	0.5	43.4	11.9	44.2	90.0	0.9	62.2	448	11
APAC-MISSOURI, INC. - LINN CREEK, LINN CREEK, MO										
Stockpile #2										
Lab #1014	08-16-04	0.2	37.4	16.5	45.9	99.5	11.8	65.2	519	154
Lab #1349	10-11-04	1.1	42.0	15.7	41.2	97.7	11.8	61.1	478	144
Lab #1674	12-06-04	1.0	40.6	14.8	43.6	97.6	12.2	62.6	489	153
APAC-MISSOURI, INC. - COLUMBIA, COLUMBIA, MO										
Stockpile #2										
Lab #1053	08-24-04	3.4	37.7	9.7	49.2	88.7	10.7	64.4	457	138
Lab #1462	11-03-04	5.1	38.8	9.9	46.2	79.3	9.7	61.8	392	120
Stockpile #3										
Lab #1052	08-24-04	8.5	39.9	9.5	42.1	77.4	9.6	57.8	358	111
Lab #1461	11-03-04	16.9*	40.3	6.6	36.2	85.6	10.3	50.2	0	0
APAC-MISSOURI, INC. - MARSHALL, MARSHALL, MO										
Stockpile #1										
Lab #0941	08-10-04	0.9	47.5	9.2	42.4	83.0	3.6	59.8	397	43
Lab #1073	08-27-04	1.2	57.8	11.8	29.2	94.2	0.2	50.7	382	2
Lab #1233	09-23-04	1.4	51.3	12.1	35.2	90.7	1.7	55.3	401	19
Lab #1329	10-14-04	1.7	48.1	10.2	40.0	88.4	3.7	58.1	411	43
Lab #1475	11-02-04	3.6	49.6	10.7	36.1	91.2	1.3	54.9	401	14
Lab #1610	12-03-04	7.0	47.4	7.0	38.4	86.8	3.9	54.5	378	42

* Does not meet minimum specification for Agricultural Liming Material.

TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
APAC-MISSOURI, INC. - NETTLETON, COLUMBIA, MO										
Stockpile #1										
Lab #1135	09-08-04	8.0	40.0	7.5	44.5	77.6	1.0	59.0	366	12
Lab #1279	09-27-04	7.6	41.8	7.9	42.7	76.4	1.1	57.9	354	13
Lab #1420	10-25-04	5.9	43.4	9.2	41.5	76.5	1.2	57.9	354	14
Lab #1529	11-15-04	5.2	46.4	8.0	40.4	77.7	1.1	56.8	353	12
Stockpile #2										
Lab #1530	11-15-04	21.0*	42.5	7.2	29.3	81.4	1.0	44.2	0	0
APAC MISSOURI CENTRAL COMPANIES, COLUMBIA, MO										
Stockpile #1										
Lab #1015	08-16-04	2.0	46.3	13.5	38.2	88.7	10.8	57.9	411	125
APAC-MISSOURI INC. - ROARK CREEK, COLUMBIA, MO										
Stockpile #1										
Lab #1055	08-24-04	0.7	42.1	9.3	47.9	91.5	10.8	64.0	469	138
Lab #1203	09-20-04	0.5	41.5	9.5	48.5	92.0	10.8	64.6	475	139
Lab #1464	11-03-04	1.0	40.0	9.9	49.1	93.0	11.0	65.0	484	143
ARKANSAS LIME COMPANY, INC., BATESVILLE, AR										
ASC MINERALS PROCESSING, ALLERTON, IL										
ASH GROVE AGGREGATES INC-APPLETON, BUTLER, MO										
Stockpile #1										
Lab #0926	08-04-04	0.3	52.3	11.0	36.4	81.9	1.0	56.1	367	11
ASH GROVE AGGREGATES-ELDORADO SPRIN, BUTLER, MO										
Stockpile #1										
Lab #1304	10-08-04	1.4	59.9	9.4	29.3	94.9	0.2	49.9	379	2
Lab #1356	10-15-04	1.2	50.3	11.3	37.2	95.8	0.2	56.6	433	2
Lab #1394	10-19-04	1.2	52.5	12.0	34.3	96.3	0.1	54.6	421	1
ASH GROVE AGGREGATES-FAIR GROVE, BUTLER, MO										
Stockpile #1										
Lab #1148	09-08-04	2.9	53.0	7.6	36.5	87.4	10.4	54.3	380	113
Lab #1386	10-19-04	2.9	60.2	7.8	29.1	87.2	10.2	48.8	341	100
ASH GROVE AGGREGATES INC-BUTLER, BUTLER, MO										
Stockpile #1										
Lab #0874	08-02-04	2.3	64.9	10.9	21.9	82.3	0.6	44.7	294	5
Lab #1100	09-01-04	2.9	59.4	10.0	27.7	84.2	0.6	48.6	327	6
Lab #1430	10-27-04	2.2	55.8	10.6	31.4	83.7	0.6	51.7	346	6
Stockpile #2										
Lab #0875	08-02-04	1.0	53.5	10.7	34.8	85.1	1.2	54.6	372	13
Lab #1101	09-01-04	2.5	53.1	10.6	33.8	84.3	1.3	53.4	360	14
Lab #1431	10-27-04	1.8	54.2	10.0	34.0	81.5	1.3	53.6	349	14
ASH GROVE AGGREGATES INC-RICHHILL, BUTLER, MO										
Stockpile #1										
Lab #1044	08-18-04	0.0	50.0	12.4	37.6	81.8	0.7	57.5	377	8
Lab #1102	09-01-04	0.2	51.9	12.1	35.8	79.9	0.6	56.0	358	7
Lab #1467	11-02-04	0.2	49.8	11.2	38.8	80.5	0.6	58.0	373	7
ASH GROVE AGGREGATES INC-LACYGNE, BUTLER, MO										
Stockpile #3										
Lab #0881	08-02-04	4.6	47.4	9.2	38.8	91.8	0.8	56.2	413	9
Lab #1184	09-14-04	3.0	42.4	9.6	45.0	92.5	1.8	61.4	454	22
Lab #1428	10-27-04	2.6	41.6	10.0	45.8	85.3	1.3	62.2	424	16
ASH GROVE AGGREGATES INC-MARSHFIELD, BUTLER, MO										
Stockpile #3										
Lab #1051	08-23-04	0.4	49.4	11.6	38.6	87.6	10.5	57.9	406	122
Lab #1298	10-06-04	0.4	48.6	12.3	38.7	86.2	10.3	58.2	402	120
ASH GROVE AGGREGATES INC-MONTEVALLO, BUTLER, MO										
Stockpile #1										
Lab #1305	10-08-04	3.7	42.8	12.7	40.8	86.4	0.7	59.1	409	8
ASH GROVE AGGREGATES INC-OSCEOLA, BUTLER, MO										
Stockpile #1										
Lab #1045	08-20-04	3.8	45.9	11.2	39.1	87.2	0.5	57.3	400	6
Lab #1191	09-17-04	3.0	45.8	10.8	40.4	85.6	0.4	58.3	399	5
Lab #1437	10-29-04	2.7	48.8	11.3	37.2	87.7	0.5	56.2	394	6
ASH GROVE AGGREGATES INC-PITTSBURG, BUTLER, MO										
Stockpile #1										
Lab #1002	08-12-04	4.4	48.2	10.1	37.3	92.4	0.2	55.4	410	2
Lab #1145	09-09-04	3.3	45.8	12.5	38.4	92.0	0.2	57.4	422	2
Lab #1391	10-18-04	5.0	43.6	12.5	38.9	92.2	0.1	57.3	423	1
Lab #1555	11-16-04	2.6	48.1	12.3	37.0	96.4	0.1	56.4	435	1

* Does not meet minimum specification for Agricultural Liming Material.

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
ASH GROVE AGGREGATES INC-FT SCOTT, BUTLER, MO										
Stockpile #3										
Lab #0927	08-05-04	3.1	43.1	9.2	44.6	87.0	1.2	60.9	424	15
ASH GROVE AGGREGATES INC.-STOCKTON, BUTLER, MO										
Stockpile #1										
Lab #1018	08-17-04	3.7	45.2	12.5	38.6	90.8	0.2	57.4	417	2
Lab #1222	09-22-04	4.0	50.4	13.5	32.1	95.0	0.2	52.8	401	2
Lab #1396	10-21-04	2.1	48.6	14.0	35.3	91.8	0.1	55.9	410	1
Lab #1558	11-17-04	1.9	47.8	14.6	35.7	95.1	0.1	56.4	429	1
Stockpile #2										
Lab #1019	08-17-04	5.0	50.8	12.4	31.8	94.8	0.2	51.9	394	2
Lab #1223	09-22-04	4.2	47.3	12.5	36.0	91.3	0.1	55.3	404	1
Lab #1397	10-21-04	9.8	44.8	11.4	34.0	92.8	0.1	52.0	386	1
Lab #1559	11-17-04	4.0	51.6	12.6	31.8	95.3	0.1	52.3	398	1
Stockpile #3										
Lab #1020	08-17-04	6.1	51.8	11.5	30.6	95.5	0.2	50.5	385	2
Lab #1224	09-22-04	3.6	49.3	12.8	34.3	94.4	0.2	54.3	410	2
Lab #1398	10-21-04	5.5	44.5	13.6	36.4	96.1	0.1	55.7	428	1
Lab #1560	11-17-04	2.4	48.0	14.1	35.5	91.9	0.2	56.0	411	2
Stockpile #4										
Lab #1043	08-17-04	1.5	46.0	13.6	38.9	93.1	0.1	58.6	436	1
Lab #1225	09-22-04	4.5	46.2	12.5	36.8	92.4	0.1	55.9	413	1
Lab #1399	10-21-04	5.5	54.2	12.0	28.3	95.0	0.1	49.1	373	1
ASH GROVE AGGREGATES INC-WHEATLAND, BUTLER, MO										
Stockpile #2										
Lab #1000	08-12-04	5.9	47.1	10.2	36.8	96.5	0.2	54.7	422	2
Lab #1147	09-09-04	6.1	50.3	10.2	33.4	94.7	0.4	52.1	395	4
Lab #1393	10-18-04	5.1	47.9	10.9	36.1	96.3	0.2	54.6	421	2
Lab #1557	11-16-04	6.0	46.1	11.0	36.9	94.6	0.2	55.0	416	2
ASH GROVE AGGREGATES INC-FT SCOTT E, BUTLER, MO										
ASH GROVE AGGREGATES INC-BOLIVAR, BUTLER, MO										
Stockpile #1										
Lab #0920	08-03-04	2.2	53.2	10.4	34.2	94.9	0.2	53.7	408	2
Lab #1141	09-07-04	1.0	43.4	13.1	42.5	94.9	0.2	61.2	465	2
Lab #1351	10-14-04	1.5	51.8	11.0	35.7	96.0	0.3	55.3	424	3
Stockpile #2										
Lab #0921	08-03-04	1.9	49.3	10.4	38.4	88.8	0.4	57.0	405	5
Lab #1142	09-07-04	1.4	53.7	10.9	34.0	93.5	0.5	54.0	404	5
Lab #1352	10-14-04	1.9	54.3	10.4	33.4	94.3	0.5	53.2	401	5
Stockpile #3										
Lab #0922	08-03-04	1.5	51.1	11.5	35.9	97.2	0.8	55.6	432	9
Lab #1143	09-07-04	1.8	53.5	10.2	34.5	95.2	0.9	54.0	411	10
Lab #1353	10-14-04	6.3	43.9	10.3	39.5	82.2	1.2	56.7	373	14
ASH GROVE AGGREGATES INC-BUFFALO, BUTLER, MO										
Stockpile #1										
Lab #1082	08-30-04	0.8	46.1	9.3	43.8	89.2	11.0	60.9	435	134
Lab #1274	09-29-04	0.6	45.6	11.4	42.4	91.3	10.8	60.6	443	131
Lab #1469	11-04-04	0.9	44.7	10.2	44.2	90.7	10.8	61.5	446	133
Stockpile #2										
Lab #1083	08-30-04	0.5	44.8	12.5	42.2	90.7	11.2	60.9	442	136
Lab #1275	09-29-04	0.9	44.8	11.5	42.8	91.4	10.8	60.9	445	132
Lab #1470	11-04-04	0.7	47.6	10.8	40.9	92.9	11.1	59.3	441	132
Stockpile #3										
Lab #1276	09-29-04	0.6	13.2	15.6	70.6	96.8	0.7	83.3	645	12
Lab #1471	11-04-04	0.1	12.1	15.7	72.1	97.6	0.2	84.5	660	3
BAILEY QUARRIES INC-CHESAPEAKE Q., MT VERNON, MO										
Stockpile #4										
Lab #0989	08-09-04	0.7	34.9	11.3	53.1	89.6	11.1	68.6	492	152
Lab #1198	09-13-04	1.1	37.0	10.9	51.0	88.1	11.4	66.8	471	152
Lab #1460	11-02-04	1.8	38.6	10.3	49.3	89.1	10.5	65.1	464	137
BAILEY QUARRIES INC-JANE, JANE, MO										
Stockpile #2										
Lab #0990	08-10-04	0.4	40.4	9.5	49.7	90.4	11.3	65.5	474	148
Lab #1260	09-27-04	1.1	42.1	8.7	48.1	93.3	11.0	63.8	477	140
Lab #1572	11-17-04	1.9	50.2	7.7	40.2	93.9	11.9	57.4	431	137

* Does not meet minimum specification for Agricultural Liming Material.

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
BAILEY QUARRIES, INC.-MADRY QUARRY, VERONA, MO										
Stockpile #2										
Lab #0905	08-05-04	7.9	51.6	10.0	30.5	90.1	0.9	49.4	356	9
Lab #1194	09-16-04	8.0	45.6	10.0	36.4	86.4	4.4	53.8	372	47
Lab #1660	12-09-04	6.0	47.0	9.0	38.2	87.5	8.6	55.4	387	95
Stockpile #3										
Lab #0906	08-05-04	12.7*	44.9	6.8	35.6	84.8	10.1	50.9	0	0
BAILEY QUARRIES INC-STOCKTON, STOCKTON, MO										
Stockpile #1										
Lab #1016	08-17-04	3.7	48.0	13.4	34.9	96.1	0.2	54.9	422	2
Lab #1226	09-22-04	2.4	45.3	15.1	37.2	95.8	0.2	57.6	441	2
Lab #1400	10-21-04	0.9	44.1	16.8	38.2	96.8	0.1	59.3	459	1
Lab #1561	11-17-04	2.4	47.9	14.6	35.1	96.5	0.1	55.8	431	1
Stockpile #2										
Lab #1017	08-17-04	2.7	48.5	14.4	34.4	95.1	0.1	55.2	420	1
Lab #1227	09-22-04	2.7	43.2	17.7	36.4	94.6	0.1	57.8	438	1
Lab #1401	10-21-04	1.2	43.4	15.7	39.7	93.2	0.1	60.0	447	1
Lab #1562	11-17-04	1.9	44.2	14.9	39.0	93.5	0.1	59.0	441	1
BARBER & SONS AGGREGATES, LEE'S SUMMIT, MO										
Stockpile #1										
Lab #0883	08-03-04	6.8	51.2	8.3	33.7	86.2	0.4	51.5	355	4
Lab #1105	09-03-04	7.1	51.1	8.3	33.5	83.1	0.5	51.3	341	5
Lab #1253	09-29-04	5.5	49.2	12.1	33.2	86.7	0.4	52.8	366	4
Lab #1378	10-18-04	4.3	50.8	9.7	35.2	83.1	1.1	53.7	357	12
Lab #1574	11-19-04	7.3	50.9	8.3	33.5	83.0	0.5	51.2	340	5
Lab #1614	12-08-04	8.0	50.3	11.2	31.0	84.9	0.5	50.3	342	5
BARRETT MATERIALS INC, NEW HAVEN, MO										
Stockpile #1										
Lab #1090	08-23-04	0.2	43.5	11.7	44.6	77.2	9.4	62.5	386	117
Stockpile #2										
Lab #1091	08-23-04	0.2	40.4	10.2	49.2	83.3	10.2	65.4	436	133
Lab #1201	09-15-04	0.5	46.4	7.5	45.6	85.9	10.7	61.7	424	132
Lab #1440	10-25-04	0.3	41.3	8.9	49.5	87.8	10.5	65.2	458	137
BASE ROCK MINERALS, BONNE TERRE, MO										
Stockpile #3										
Lab #1158	09-10-04	0.0	0.3	0.9	98.8	77.1	9.8	99.4	613	195
JAMES ELROD TRUCK SERVICE, BELLE, MO										
Stockpile #1										
Lab #0974	08-12-04	0.6	32.8	13.6	53.0	96.6	2.6	69.4	536	36
Lab #1443	10-27-04	0.6	31.4	10.1	57.9	90.1	3.2	71.8	518	46
Lab #1608	12-03-04	0.6	27.1	8.3	64.0	90.9	3.8	75.8	551	58
BOONE QUARRIES INC - WEST, COLUMBIA, MO										
Stockpile #1										
Lab #0958	08-12-04	1.7	39.4	6.0	52.9	85.2	6.2	66.4	452	82
Lab #1310	10-11-04	0.8	33.1	10.1	56.0	88.8	4.1	70.3	500	58
Lab #1662	12-14-04	0.0	37.6	15.7	46.6	97.9	0.7	65.4	512	9
Stockpile #2										
Lab #0959	08-12-04	0.1	33.9	13.9	52.1	93.0	3.1	68.9	513	43
Lab #1309	10-11-04	0.0	36.9	15.8	47.3	98.5	0.9	66.0	520	12
Lab #1663	12-14-04	1.0	28.5	10.0	60.8	92.3	3.5	73.9	546	52
BOONE QUARRIES - EAST, COLUMBIA, MO										
Stockpile #1										
Lab #0957	08-12-04	11.1*	44.9	7.7	36.3	92.3	4.5	52.1	0	0
Stockpile #2										
Lab #1081	08-27-04	0.5	43.8	10.9	44.8	89.8	6.2	62.3	447	77
Lab #1311	10-11-04	0.5	42.3	12.5	44.7	91.9	6.2	62.8	462	78
Lab #1365	10-14-04	0.8	44.3	11.8	43.1	90.4	6.1	61.3	443	75
Lab #1664	12-14-04	0.0	46.0	9.7	44.0	90.4	6.2	61.3	443	76
BROMLEY QUARRY & ASPHALT INC, ATCHISON, KS										
Stockpile #1										
Lab #0979	08-11-04	1.0	52.2	10.5	36.3	79.0	1.6	55.7	352	18
Lab #1129	09-07-04	1.8	53.7	9.3	35.2	77.9	1.8	54.2	338	20
Lab #1683	10-20-04	1.9	52.6	9.2	36.3	79.8	1.6	55.0	351	18
Lab #1541	11-18-04	2.3	56.4	9.9	31.4	80.6	1.6	51.4	332	16
BURFORDVILLE STONE, LLC, WHITEWATER, MO										
Stockpile #1										
Lab #0856	07-12-04	8.0	57.7	6.5	27.8	89.4	10.1	46.1	330	93

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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
BURFORDVILLE STONE, LLC, WHITEWATER, MO (Cont.)										
Stockpile #1										
Lab #0886	08-02-04	7.3	55.0	6.2	31.5	87.7	10.3	49.0	344	101
Lab #1242	09-27-04	3.4	50.7	9.5	36.4	88.3	10.2	54.8	387	112
CALCIUM PRODUCTS, INC., GILMORE CITY, IA										
CAPITAL QUARRIES INC-HIGH HILL, HIGH HILL, MO										
Stockpile #1										
Lab #0900	08-05-04	2.3	48.9	9.5	39.3	84.2	4.9	57.2	385	56
Lab #1199	09-14-04	2.5	52.7	9.2	35.6	96.6	6.2	54.3	420	67
Lab #1441	10-26-04	3.2	50.6	10.0	36.2	96.3	6.4	54.9	423	70
Lab #1607	11-30-04	1.1	40.2	11.0	47.7	96.8	6.3	64.4	498	81
CAPITAL QUARRIES, INC-STADIUM WEST, JEFFERSON CITY, MO										
Stockpile #2										
Lab #0899	08-03-04	2.2	43.7	9.8	44.3	88.9	10.7	61.1	435	131
Lab #1123	09-02-04	2.0	43.3	9.8	44.9	87.6	10.4	61.6	432	128
Lab #1334	10-11-04	2.1	48.7	9.6	39.6	89.7	10.6	57.5	413	122
Lab #1527	11-12-04	2.2	45.3	9.5	43.0	85.0	10.2	60.0	408	122
CAPITAL QUARRIES INC-ROLLA Q #4, JEFFERSON CITY, MO										
CAPITAL QUARRIES INC-CALIFORNIA Q#5, JEFFERSON CITY, MO										
Stockpile #1										
Lab #0948	08-11-04	1.7	45.9	12.3	40.1	88.8	2.3	59.0	419	27
Lab #1167	09-13-04	2.1	44.7	12.1	41.1	87.8	3.2	59.5	418	38
Lab #1327	10-11-04	1.7	48.4	12.2	37.7	87.0	2.8	57.1	398	32
Lab #1534	11-16-04	1.9	44.8	10.2	43.1	90.5	2.8	60.4	437	34
Lab #1618	12-09-04	2.0	44.8	11.8	41.5	90.7	3.0	59.8	434	36
CAPITAL QUARRIES INC-SULLIVAN, BOURBON, MO										
Stockpile #1										
Lab #1087	08-30-04	11.2*	47.3	9.8	31.7	97.9	11.9	49.4	0	0
Lab #1240	09-23-04	9.4	45.4	11.6	33.6	95.8	11.1	51.9	398	115
Lab #1301	10-07-04	9.5	47.4	10.7	32.4	96.7	11.5	50.7	392	117
Lab #1405	10-22-04	4.6	43.6	13.0	38.8	96.1	11.2	57.5	442	129
Lab #1457	11-01-04	2.1	45.1	12.4	40.4	96.5	11.5	59.1	456	136
CARROLL COUNTY STONE, INC., REPUBLIC, MO										
Stockpile #1										
Lab #0901	08-03-04	0.8	36.9	12.0	50.3	88.7	10.6	66.7	473	141
Lab #1149	09-10-04	0.8	37.0	12.0	50.2	87.7	10.4	66.7	468	139
Lab #1455	10-29-04	2.0	41.1	7.4	49.5	85.2	10.2	64.2	438	131
CARTHAGE CRUSHED LIMESTONE, CARTHAGE, MO										
Stockpile #1										
Lab #1030	08-18-04	0.9	40.5	12.6	46.0	94.8	0.1	63.7	483	1
Lab #1107	09-02-04	0.8	43.8	14.4	41.0	95.7	0.1	60.6	464	1
Lab #1454	10-25-04	0.7	18.4	3.5	77.4	96.6	0.1	84.1	650	2
Lab #1657	12-08-04	0.0	2.1	5.1	92.8	97.3	0.1	96.4	750	2
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Stockpile #2										
Lab #1673	12-10-04	1.2	31.8	13.7	53.3	96.3	1.0	69.5	535	14
Stockpile #3										
Lab #1370	10-18-04	0.7	28.0	14.9	56.4	93.6	0.5	72.3	542	7
Lab #1568	11-17-04	1.7	34.5	12.3	51.5	94.2	0.5	67.5	509	7
CENTRAL STONE COMPANY-ANTONIA, HANNIBAL, MO										
CENTRAL STONE COMPANY - BETHEL, SHELBYVILLE, MO										
Stockpile #1										
Lab #0937	08-05-04	6.6	43.0	8.1	42.3	91.3	1.5	57.9	423	17
Lab #1316	10-11-04	4.9	41.4	10.3	43.4	93.1	1.1	59.9	446	13
Lab #1623	12-09-04	5.0	41.4	9.7	44.2	93.5	1.2	60.4	452	14
CENTRAL STONE CO - FORT BELLE - #31, FLORISSANT, MO										
Stockpile #1										
Lab #1645	12-09-04	0.0	0.3	5.1	94.6	86.6	3.2	97.7	677	63
CENTRAL STONE COMPANY - PARIS, PARIS, MO										
Stockpile #1										
Lab #0938	08-06-04	3.6	48.0	11.2	37.2	90.8	0.3	55.9	406	3
Lab #1366	10-14-04	2.7	47.4	12.3	37.6	89.3	0.3	56.8	406	3
Lab #1621	12-09-04	3.0	50.1	11.6	34.9	89.8	0.4	54.4	391	4
CENTRAL STONE COMPANY - CURRYVILLE, CURRYVILLE, MO										
Stockpile #1										
Lab #1666	12-13-04	0.0	33.3	13.8	52.6	84.1	2.1	69.2	466	29
CENTRAL STONE COMPANY - PERRY, HANNIBAL, MO										

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		+8	-8+40	-40+60	-60				ENM	EMg
CENTRAL STONE COMPANY - EWING, HANNIBAL, MO										
CENTRAL STONE COMPANY-ST. FRANCOIS, HANNIBAL, MO										
CENTRAL STONE COMPANY - TAYLOR, TAYLOR, MO										
Stockpile #2										
Lab #1367	10-14-04	5.6	44.9	11.6	37.9	85.6	1.0	56.1	384	11
Lab #1369	10-18-04	6.1	45.6	11.6	36.7	86.4	0.9	55.1	381	10
Lab #1414	10-25-04	10.2*	45.6	10.2	34.0	90.6	0.8	51.5	0	0
Lab #1569	11-17-04	9.4	44.8	10.5	35.3	90.5	0.9	52.8	382	10
Lab #1665	12-10-04	10.0	47.6	10.4	32.2	90.7	0.8	50.3	365	8
CLEVER STONE CO, CLEVER, MO										
Stockpile #1										
Lab #0992	08-13-04	1.6	48.5	14.4	35.5	94.6	0.2	56.3	426	2
Lab #1192	09-15-04	1.1	50.7	13.9	34.3	95.6	0.2	55.3	423	2
COLONIAL LIMESTONE INC-PRINCETON, MILAN, MO										
Stockpile #1										
Lab #0963	08-10-04	2.2	51.0	10.8	36.0	85.1	0.5	55.2	376	6
Lab #1112	08-30-04	10.9*	48.4	7.9	32.8	88.7	0.3	49.6	0	0
Lab #1116	09-02-04	2.1	49.3	11.0	37.6	83.1	0.7	56.5	376	8
Lab #1217	09-22-04	1.0	49.8	11.5	37.7	82.8	0.5	57.1	378	6
Lab #1220	09-24-04	1.2	47.7	11.8	39.3	84.1	0.8	58.3	392	9
Lab #1510	11-08-04	2.9	54.3	9.8	33.0	87.3	0.3	52.5	366	3
CONCO QUARRIES, SPRINGFIELD, MO										
Stockpile #1										
Lab #1063	08-25-04	0.0	12.4	15.9	71.7	97.0	0.2	84.3	654	3
Lab #1389	10-19-04	2.2	13.1	13.5	71.2	97.6	0.2	82.6	645	3
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Stockpile #1										
Lab #1058	08-25-04	0.0	11.6	15.1	73.3	97.9	0.2	85.3	668	3
Lab #1384	10-19-04	0.0	9.4	13.2	77.4	96.7	0.1	87.7	678	2
Stockpile #4										
Lab #1059	08-25-04	0.0	12.7	15.5	71.8	97.6	0.1	84.3	658	2
Lab #1385	10-19-04	0.1	9.7	14.5	75.7	97.9	0.2	86.8	680	3
COUNTY LINE QUARRY, WELLSVILLE, MO										
Stockpile #1										
Lab #1567	11-17-04	1.8	45.2	10.5	42.5	94.2	3.7	60.1	453	44
Lab #1643	12-08-04	1.0	46.7	11.7	40.8	94.3	3.6	59.5	449	43
CRAWFORD LIME & MATERIAL CO, CUBA, MO										
Stockpile #1										
Lab #1023	08-18-04	5.1	40.5	7.7	46.7	86.5	10.5	61.4	425	129
Lab #1239	09-23-04	1.3	39.9	8.3	50.5	85.1	10.4	65.5	446	136
Lab #1456	11-01-04	4.6	42.5	7.0	45.9	88.0	10.4	60.7	428	126
Lab #1651	12-08-04	5.0	41.2	10.2	44.1	77.9	9.4	60.5	377	114
CRIDER BROTHERS LIME CO, EMINENCE, MO										
Stockpile #2										
Lab #0849	07-06-04	5.8	50.8	11.9	31.5	98.1	10.7	51.3	403	110
Lab #0870	07-27-04	2.0	51.1	12.8	34.1	97.9	11.2	54.6	427	122
Lab #1245	09-28-04	3.3	49.7	13.7	33.3	98.2	11.1	53.9	424	120
Lab #1450	10-27-04	0.2	48.5	15.7	35.6	100.5	10.9	57.1	459	125
Lab #1589	11-29-04	1.1	49.7	12.9	36.3	103.8	12.5	56.5	469	141
CRIDER BROS LIME CO. INC.-VAN BUREN, EMINENCE, MO										
Stockpile #2										
Lab #0888	08-03-04	3.9	49.5	9.9	36.7	89.9	10.8	55.0	396	119
Lab #1012	08-17-04	3.5	53.5	10.2	32.8	87.4	10.6	52.3	366	111
Lab #1244	09-28-04	1.9	48.1	11.1	38.9	90.9	11.0	57.6	419	127
Lab #1449	10-27-04	1.8	47.1	12.3	38.8	92.1	11.0	58.0	427	128
Lab #1588	11-29-04	0.9	42.0	12.9	44.2	91.0	11.3	62.4	455	141
DOSS & HARPER STONE CO., HOUSTON, MO										
Stockpile #1										
Lab #1210	09-23-04	0.2	46.6	11.9	41.3	89.9	10.8	60.1	432	130
DOSS & HARPER STONE CO, WEST PLAINS, MO										
Stockpile #1										
Lab #1211	09-23-04	1.0	51.3	7.8	39.9	80.7	9.7	57.4	371	111
EVERETT QUARRIES #1-LATHROP, PLATTSBURG, MO										
Stockpile #2										
Lab #0981	08-12-04	0.1	47.0	12.6	40.3	86.7	1.0	59.6	413	12
Lab #1134	09-10-04	0.2	49.2	12.4	38.2	88.5	0.6	57.9	410	7
Lab #1439	10-29-04	0.2	47.8	12.5	39.5	87.6	0.8	59.0	413	9

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		+8	-8+40	-40+60	-60				ENM	EMg
EVERETT QUARRIES #1-LATHROP, PLATTSBURG, MO (Cont.)										
Stockpile #2										
Lab #1545	11-19-04	0.2	47.6	13.3	38.9	87.7	0.8	58.8	412	9
EVERETT QUARRIES #6-KING, PLATTSBURG, MO										
Stockpile #1										
Lab #1038	08-18-04	3.5	47.9	9.3	39.3	88.0	1.7	56.9	400	19
Lab #1136	09-08-04	3.0	49.1	9.9	38.0	86.6	1.8	56.2	389	20
Lab #1421	10-25-04	2.8	50.5	10.4	36.3	89.1	1.3	55.2	393	14
Lab #1531	11-15-04	1.4	48.9	9.1	40.6	88.7	1.2	58.3	414	14
EVERETT QUARRIES #53-CAMERON, PLATTSBURG, MO										
EVERETT QUARRIES #54-GOWER, PLATTSBURG, MO										
Stockpile #3										
Lab #0980	08-11-04	6.6	55.3	8.5	29.6	84.5	0.9	48.5	328	9
Lab #1246	09-20-04	5.1	50.3	9.4	35.2	81.9	1.2	53.4	350	13
Lab #1684	10-20-04	5.2	52.8	8.7	33.3	81.9	1.1	51.7	339	11
Lab #1542	11-18-04	4.3	52.5	9.9	33.3	82.5	1.5	52.4	346	16
EVERETT QUARRIES #57, PLATTSBURG, MO										
Stockpile #1										
Lab #0994	08-13-04	5.4	50.2	9.3	35.1	70.5	2.3	53.2	300	24
Lab #1133	09-10-04	5.4	50.2	9.8	34.6	70.2	2.2	53.0	298	23
Lab #1689	10-22-04	0.1	48.9	12.2	38.8	75.8	2.1	58.3	354	25
Lab #1546	11-19-04	0.1	51.5	12.0	36.4	84.5	1.1	56.5	382	12
EVERETT QUARRIES #59-STANBERRY, PLATTSBURG, MO										
Stockpile #1										
Lab #0911	08-02-04	5.2	45.5	9.8	39.5	78.1	1.5	56.8	355	17
Lab #1247	09-21-04	4.4	52.5	9.0	34.1	79.6	1.5	52.6	335	16
Lab #1685	10-20-04	4.3	50.8	8.7	36.2	78.8	1.7	54.1	341	18
Lab #1543	11-19-04	4.1	52.5	9.7	33.7	79.8	1.8	52.6	336	19
Stockpile #2										
Lab #0912	08-02-04	10.0	35.8	8.2	46.0	72.1	1.9	59.9	345	23
Lab #1248	09-21-04	8.7	37.0	8.4	45.9	71.5	1.9	60.2	344	23
Lab #1686	10-20-04	10.0	36.9	7.8	45.3	70.7	2.2	59.2	335	26
Lab #1544	11-19-04	13.5*	37.8	7.3	41.4	72.0	1.9	55.2	0	0
FALL VALLEY STONE, INC., MT VERNON, MO										
Stockpile #1										
Lab #0988	08-09-04	0.0	38.6	11.6	49.8	96.6	12.0	66.4	513	159
Lab #1197	09-13-04	0.4	41.6	11.6	46.4	100.3	12.5	63.8	512	159
Lab #1459	11-02-04	0.5	43.3	10.4	45.8	99.2	11.8	62.9	499	148
FARMERS LITTER & LIME, SIKESTON, MO										
Stockpile #1										
Lab #0867	07-17-04	3.9	42.5	11.1	42.5	98.7	0.3	59.8	472	4
FISCHER QUARRIES LLC, HUGHESVILLE, MO										
Stockpile #2										
Lab #0943	08-10-04	11.3*	46.6	9.3	32.8	97.2	1.0	50.0	0	0
Lab #1075	08-27-04	8.6	44.8	10.8	35.8	96.3	1.3	53.5	412	14
Lab #1124	09-08-04	7.4	46.3	10.1	36.2	96.9	1.1	53.8	417	12
Lab #1164	09-10-04	7.1	45.9	11.4	35.6	97.2	1.1	53.9	419	12
Lab #1331	10-14-04	9.4	46.5	10.1	34.0	97.0	0.9	51.7	401	9
Lab #1612	12-03-04	6.0	49.6	8.9	35.4	97.6	1.0	53.1	415	11
Stockpile #3										
Lab #0944	08-10-04	10.0	45.2	9.8	35.0	97.4	1.0	52.2	407	10
Stockpile #4										
Lab #1332	10-14-04	8.9	51.3	9.7	30.1	97.7	0.9	48.7	381	9
Lab #1478	11-02-04	2.8	51.9	12.3	33.0	98.8	0.9	53.4	422	10
FULLERTON STONE COMPANY INC, GRANBY, MO										
GABEL STONE COMPANY INC., WILLOW SPRINGS, MO										
GLASGOW QUARRIES INC, GLASGOW, MO										
GLASGOW QUARRIES-GILLIAM, GILLIAM, MO										
Stockpile #1										
Lab #1005	08-16-04	3.5	51.6	8.2	36.7	89.0	6.2	54.5	388	68
Lab #1231	09-22-04	4.2	49.0	9.3	37.5	87.7	5.8	55.3	388	64
Lab #1535	11-18-04	3.4	50.0	7.8	38.8	87.8	5.7	56.0	393	64
Stockpile #2										
Lab #1006	08-16-04	3.9	62.4	6.2	27.5	82.4	4.1	46.8	309	38
Stockpile #3										
Lab #1004	08-16-04	10.7*	48.4	6.8	34.1	88.7	6.3	50.3	0	0
Lab #1230	09-22-04	8.3	51.0	8.4	32.3	85.3	3.8	50.1	342	38

* Does not meet minimum specification for Agricultural Liming Material.

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
GLASGOW QUARRIES-GILLIAM, GILLIAM, MO (Cont.)										
Stockpile #3										
Lab #1536	11-18-04	7.4	51.4	6.3	34.9	87.5	5.6	51.5	361	58
GLASGOW QUARRIES - MARCELINE, MARCELINE, MO										
Stockpile #4										
Lab #0960	08-09-04	2.9	48.8	7.3	41.0	88.1	6.3	57.6	406	73
Lab #1425	10-26-04	9.4	51.7	6.8	32.1	87.1	5.0	49.1	342	49
Lab #1637	12-09-04	4.0	48.0	7.4	40.2	88.8	5.8	56.6	402	66
HARVEY PRODUCTS INC, BLUE MOUNDS, WI										
HIGGINS - MEEKER QUARRIES LLC, DEEPWATER, MO										
Stockpile #2										
Lab #1003	08-13-04	3.6	44.2	7.6	44.6	61.7*	5.6	60.2	0	0
Lab #1137	09-10-04	2.9	46.3	8.0	42.8	68.7	5.7	59.2	325	67
Lab #1436	10-28-04	1.5	44.1	9.2	45.2	72.7	6.1	61.7	359	75
Lab #1582	11-22-04	3.1	47.9	7.4	41.6	67.9	6.3	58.0	315	73
HILTY QUARRIES, INC. - QUARLES, CLINTON, MO										
Stockpile #3										
Lab #0998	08-11-04	0.3	43.1	11.4	45.2	94.5	0.4	62.8	475	5
Stockpile #4										
Lab #0999	08-11-04	2.8	41.7	14.6	40.9	79.8	0.8	60.1	384	10
HILTY QUARRIES, INC. - MONTROSE, CLINTON, MO										
Stockpile #1										
Lab #0925	08-04-04	0.5	56.0	10.1	33.4	82.5	0.9	53.5	353	10
Lab #1104	09-02-04	0.5	55.8	9.6	34.1	83.8	0.9	53.8	361	10
Lab #1303	10-04-04	0.6	54.5	11.0	33.9	84.7	1.0	54.1	367	11
Lab #1473	11-05-04	0.8	57.4	9.9	31.9	83.9	1.0	52.2	350	10
HILTY QUARRIES, INC. - MT. ZION, CLINTON, MO										
Stockpile #2										
Lab #0931	08-06-04	1.1	49.8	12.6	36.5	85.8	0.1	56.5	388	1
Lab #1189	09-16-04	1.4	47.0	12.9	38.7	78.8	0.1	58.2	367	1
Lab #1434	10-28-04	0.9	47.3	14.3	37.5	85.4	0.1	57.9	396	1
Lab #1583	11-22-04	1.9	44.9	13.7	39.5	79.0	0.1	58.9	373	1
Stockpile #3										
Lab #0932	08-06-04	0.5	48.2	14.1	37.2	87.3	0.1	57.7	403	1
Lab #1190	09-16-04	0.7	48.1	13.1	38.1	86.2	0.1	58.0	400	1
Lab #1435	10-28-04	0.5	48.5	14.5	36.5	88.9	0.1	57.3	408	1
Lab #1584	11-22-04	0.8	49.3	14.3	35.6	90.5	0.1	56.5	409	1
HILTY QUARRIES, INC- SOUTH-DELL JCT, CLINTON, MO										
Stockpile #1										
Lab #0929	08-06-04	0.6	49.4	12.5	37.5	92.7	0.7	57.4	425	8
Lab #1187	09-16-04	1.0	50.0	12.6	36.4	93.7	0.5	56.5	423	6
Lab #1432	10-28-04	0.7	49.9	11.9	37.5	88.8	1.7	57.1	406	19
Lab #1563	11-19-04	0.5	47.8	13.0	38.7	94.7	0.4	58.5	443	5
HILTY QUARRIES, INC - TIGHTWAD, CLINTON, MO										
Stockpile #1										
Lab #0930	08-06-04	0.3	42.8	13.1	43.8	95.0	0.3	62.4	474	4
Lab #1188	09-16-04	0.0	42.0	13.5	44.5	97.1	0.1	63.1	490	1
Lab #1433	10-28-04	0.2	36.0	13.4	50.4	96.1	0.3	67.4	518	4
Lab #1564	11-19-04	0.6	40.5	14.5	44.4	96.0	0.2	63.2	486	3
HILTY QUARRIES, INC. - URICH, CLINTON, MO										
Stockpile #2										
Lab #0923	08-04-04	0.7	44.1	12.1	43.1	95.6	1.7	61.4	469	21
Lab #1103	09-02-04	0.4	50.1	11.7	37.8	78.3	1.0	57.3	359	11
Lab #1427	10-27-04	0.4	51.2	10.1	38.3	77.9	0.9	57.2	356	10
Lab #1581	11-22-04	0.3	50.3	14.5	34.9	77.8	1.1	56.2	350	12
Stockpile #4										
Lab #0924	08-04-04	1.2	54.9	11.2	32.7	81.9	1.1	53.1	348	12
HILTY QUARRIES INC.-WARRENSBURG, CLINTON, MO										
Stockpile #4										
Lab #0885	08-03-04	1.7	52.7	10.9	34.7	67.7	1.8	54.4	295	20
Lab #1106	09-03-04	5.4	56.9	8.5	29.2	71.8	1.8	48.5	279	17
Lab #1254	09-29-04	2.2	46.7	12.2	38.9	63.7*	1.1	57.9	0	0
Lab #1379	10-18-04	2.9	50.6	10.4	36.1	70.1	1.3	55.0	308	14
Lab #1575	11-19-04	4.0	56.1	9.5	30.4	70.6	1.4	50.1	283	14
Lab #1615	12-08-04	3.0	47.7	4.9	44.5	70.9	1.3	59.4	337	15
HOSTETLER QUARRY, BUFFALO, MO										

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
HUNT MIDWEST MINING-BLUE MOUND, DAWN, MO										
Stockpile #2										
Lab #1041	08-18-04	0.5	49.7	11.8	38.0	87.4	1.4	57.5	402	16
Lab #1282	09-27-04	0.5	52.5	11.4	35.6	90.6	0.9	55.6	403	10
Lab #1424	10-25-04	0.5	51.9	11.9	35.7	89.9	1.6	55.8	401	18
Lab #1578	11-22-04	0.3	51.4	12.5	35.8	90.1	1.1	56.2	405	12
NUMT-MARTIN MATERIALS, DAWN, MO										
HUNT-MARTIN MATERIALS, GREENWOOD, MO										
HUNT-MARTIN MATERIALS, PECULIAR, MO										
HUNT MIDWEST MINING, INC.-TRENTON, EDINBURG, MO										
HUNT-MARTIN MATERIALS - TRENTON, EDINBURG, MO										
HUNT MIDWEST MINING - HWY 10 QUARRY, RAYVILLE, MO										
Stockpile #1										
Lab #0919	08-06-04	2.0	52.8	9.9	35.3	84.9	0.7	54.4	370	8
Lab #1168	09-14-04	2.1	52.1	10.8	35.0	76.1	1.9	54.5	332	21
Lab #1448	10-25-04	3.2	52.1	9.7	35.0	76.1	2.1	53.8	328	23
Lab #1528	11-15-04	3.8	52.5	10.1	33.6	73.8	1.9	52.8	312	20
HUNT-MARTIN MATERIALS, RAYVILLE, MO										
HUNT MIDWEST MINING INC-STAMPER, KANSAS CITY, MO										
Stockpile #1										
Lab #1249	09-21-04	7.6	50.9	9.4	32.1	93.8	0.5	50.5	379	5
Lab #1263	09-30-04	6.1	49.2	10.0	34.7	93.0	0.6	53.0	394	6
Lab #1341	10-11-04	3.1	47.9	11.8	37.2	92.4	0.6	56.3	416	7
Lab #1550	11-17-04	5.4	52.0	9.4	33.2	94.3	0.6	51.8	391	6
HUNT-MARTIN MATERIALS - STAMPER, PLATTE CITY, MO										
HUNT MIDWEST QUARRY - STET QUARRY, KANSAS CITY, MO										
Stockpile #1										
Lab #1039	08-18-04	2.8	57.5	9.5	30.2	85.7	0.7	50.3	345	7
Lab #1280	09-27-04	2.8	56.8	10.3	30.1	86.3	0.7	50.5	349	7
Lab #1422	10-25-04	1.8	58.6	9.3	30.3	85.8	0.5	50.5	347	5
Stockpile #2										
Lab #1040	08-18-04	7.5	54.4	8.2	29.9	87.6	0.6	48.4	339	6
Lab #1281	09-27-04	8.4	53.9	8.1	29.6	85.1	0.5	47.9	326	5
Lab #1423	10-25-04	7.8	54.4	8.1	29.7	86.5	0.6	48.2	333	6
HUNT-MARTIN MATERIALS - STET, RICHMOND, MO										
HUTCHENS CONSTRUCTION-PURDY, CASSVILLE, MO										
Stockpile #2										
Lab #0907	08-05-04	0.9	45.8	13.4	39.9	87.3	0.2	59.4	415	2
Lab #1193	09-16-04	0.9	46.0	13.1	40.0	83.2	0.1	59.4	395	1
Lab #1661	12-09-04	3.0	51.2	11.0	35.2	89.2	0.2	54.6	390	2
HUTCHENS CONSTRUCTION-EAGLE ROCK, CASSVILLE, MO										
Stockpile #2										
Lab #0908	08-06-04	5.6	44.8	8.7	40.9	87.7	10.6	57.3	402	122
Lab #1109	09-03-04	4.0	44.2	8.8	43.0	89.5	10.6	59.3	425	126
Lab #1605	11-30-04	0.7	45.7	9.1	44.5	90.9	11.2	61.4	446	138
HUTCHENS CONSTRUCTION-WASHBURN, CASSVILLE, MO										
JENKINS QUARRY, CASSVILLE, MO										
Stockpile #1										
Lab #0903	08-05-04	2.8	45.8	7.2	44.2	89.1	10.5	60.0	427	126
Lab #1196	09-16-04	3.9	47.5	7.7	40.9	88.3	11.2	57.4	405	129
Lab #1658	12-09-04	3.0	44.2	7.1	45.9	90.1	10.2	61.2	441	125
Stockpile #2										
Lab #0904	08-05-04	0.2	49.1	9.4	41.3	79.9	8.1	59.2	379	96
Lab #1195	09-16-04	0.1	50.7	10.0	39.2	83.8	6.6	57.9	388	76
Lab #1659	12-09-04	1.0	47.9	10.4	40.5	86.8	2.4	58.7	408	28
JIMMY SANDERS, INC, LEACHVILLE, AR										
LEO JOURNAGAN CONST CO-GAINESVILLE, SPRINGFIELD, MO										
LEO JOURNAGAN CONST CO-HOLLISTER SO, SPRINGFIELD, MO										
Stockpile #1										
Lab #1057	08-24-04	1.4	52.3	11.1	35.2	93.7	0.5	54.9	412	5
Lab #1206	09-20-04	1.4	52.0	10.9	35.7	93.2	0.5	55.2	412	6
Lab #1466	11-03-04	1.3	51.8	11.4	35.5	93.8	0.5	55.3	415	6
LEO JOURNAGAN CONST CO INC-OZARK, SPRINGFIELD, MO										
LEO JOURNAGAN CONST CO INC-AVA, SPRINGFIELD, MO										
LEO JOURNAGAN CONST - REED SPRING, SPRINGFIELD, MO										

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
LEO JOURNAGAN CONST. - SHELL KNOB, SHELL KNOB, MO										
Stockpile #1										
Lab #0909	08-06-04	3.1	42.9	7.5	46.5	91.7	11.0	61.7	453	136
Lab #1110	09-03-04	3.2	46.3	8.4	42.1	92.6	11.3	58.7	435	133
JOPLIN STONE CO Q DUENWEG, JOPLIN, MO										
Stockpile #2										
Lab #0910	08-02-04	0.2	18.3	20.8	60.7	96.6	0.1	77.8	601	2
Lab #1108	09-02-04	0.2	26.7	19.0	54.1	94.1	0.1	72.2	543	1
Lab #1390	10-18-04	0.3	23.5	23.0	53.2	96.9	0.1	72.9	565	1
Lab #1606	12-02-04	0.4	25.0	20.1	54.5	97.4	0.2	72.8	567	3
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Stockpile #1										
Lab #0934	08-05-04	5.2	41.2	8.8	44.8	87.7	2.2	60.4	424	27
Lab #1318	10-11-04	5.3	43.6	9.7	41.4	93.0	1.1	58.1	432	13
Lab #1625	12-09-04	5.0	42.6	8.6	43.4	92.5	1.4	59.2	438	17
Stockpile #3										
Lab #0935	08-05-04	0.1	1.1	0.5	98.3	97.1	0.8	98.9	768	16
Lab #1319	10-11-04	0.4	2.2	1.4	96.0	97.4	0.7	97.4	759	14
Lab #1626	12-09-04	1.0	8.4	2.8	88.3	98.0	0.6	92.1	722	11
Stockpile #4										
Lab #0936	08-05-04	1.6	15.6	5.0	77.8	88.3	1.1	84.7	598	19
Lab #1320	10-11-04	1.8	19.2	5.8	73.2	90.7	1.0	81.5	591	16
Lab #1624	12-09-04	4.0	20.1	4.9	71.1	91.2	0.9	79.1	577	14
KELLEY QUARRY, CROCKER, MO										
KERFORD LIMESTONE CO, WEEPING WATER, NE										
Stockpile #1										
Lab #1173	09-14-04	0.0	0.3	0.1	99.6	92.5	0.5	99.7	738	10
Lab #1343	10-14-04	0.0	0.5	0.3	99.2	95.9	0.3	99.5	763	6
Lab #1488	11-04-04	0.0	0.2	0.5	99.3	93.1	0.4	99.7	742	8
Lab #1632	12-09-04	0.0	0.8	0.3	98.8	94.4	0.5	99.2	749	10
KNOX COUNTY STONE CO, EDINA, MO										
Stockpile #1										
Lab #1629	12-09-04	0.0	36.2	14.1	49.5	92.1	2.3	67.0	494	31
Stockpile #2										
Lab #1317	10-11-04	0.4	33.1	16.1	50.4	90.1	3.5	68.3	493	48
Lab #1368	10-18-04	0.4	39.9	13.5	46.2	94.3	1.2	64.3	485	15
Lab #1417	10-25-04	0.4	38.9	14.4	46.3	93.1	1.9	64.7	482	25
L & W QUARRIES, INC - CLARKSDALE #8, CENTERVILLE, IA										
L & W QUARRIES, INC - WALNUT CITY, CENTERVILLE, IA										
L & W QUARRIES INC., CENTERVILLE, IA										
Stockpile #1										
Lab #1415	10-25-04	0.8	41.5	10.7	47.0	90.5	0.2	63.8	462	3
Lab #1628	12-09-04	2.0	39.4	10.7	47.8	89.9	0.2	64.1	461	3
Lab #1680	12-28-04	0.8	43.7	11.5	44.0	88.5	0.3	61.8	438	4
Stockpile #2										
Lab #1416	10-25-04	6.4	46.2	8.9	38.5	91.4	0.8	55.4	405	9
Lab #1627	12-09-04	9.0	44.4	8.5	38.6	92.9	0.2	54.8	407	2
LAFARGE QUARRY, SEDALIA, MO										
Stockpile #3										
Lab #0940	08-10-04	1.2	50.2	8.9	39.7	87.4	4.5	57.6	403	52
Lab #1072	08-27-04	1.1	52.8	8.0	38.1	88.9	4.4	56.1	399	49
Lab #1232	09-23-04	1.1	48.5	11.2	39.2	85.1	4.9	58.0	395	57
Lab #1328	10-14-04	1.3	52.6	8.1	38.0	86.4	4.7	56.0	387	53
Lab #1474	11-02-04	2.1	53.1	8.4	36.4	88.0	4.7	54.7	385	51
Lab #1609	12-03-04	1.0	49.8	6.9	42.3	84.5	4.9	58.9	398	58
LAFARGE CORPORATION, SEDALIA, MO										
LILE QUARRY INC., STRAFFORD, MO										
Stockpile #1										
Lab #1050	08-23-04	0.2	48.4	7.3	44.1	87.5	10.4	60.6	424	126
Lab #1297	10-06-04	0.8	50.6	6.5	42.1	89.3	10.5	58.7	419	123
LIMPUS QUARRIES, INC. (BATES CITY), BATES CITY, MO										
LIMPUS QUARRIES, INC. (GARDEN CITY), HARRISONVILLE, MO										
Stockpile #1										
Lab #1080	08-26-04	7.5	54.3	7.8	30.4	75.2	1.8	48.7	293	18
Lab #1468	11-03-04	6.5	57.9	7.7	27.9	75.8	1.7	47.0	285	16

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JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
LIMPUS QUARRIES, INC. (HARRISONVILLE, HARRISONVILLE, MO)										
Stockpile #1										
Lab #1078	08-26-04	6.2	51.4	8.4	34.0	86.7	0.5	51.9	360	5
Lab #1272	09-28-04	17.1*	45.2	8.6	29.1	90.3	0.4	45.6	0	0
LIMPUS QUARRIES, INC. (HOLDEN), HARRISONVILLE, MO										
Stockpile #2										
Lab #0145	02-24-03	3.9	52.8	8.8	34.5	74.2	2.5	53.0	314	26
Lab #0884	08-03-04	16.7*	44.6	7.4	31.3	75.1	1.8	46.9	0	0
LIMPUS QUARRIES, INC.-SUGAR CREEK, HARRISONVILLE, MO										
MAGRUDER LIMESTONE CO-ASHLEY, BOWLING GREEN, MO										
Stockpile #1										
Lab #1502	11-10-04	0.2	48.4	9.0	42.4	82.3	2.7	59.9	394	32
Lab #1672	12-13-04	0.1	46.3	7.8	45.8	82.6	3.0	62.1	410	37
MAGRUDER LIMESTONE CO, INC.-BOWLING, BOWLING GREEN, MO										
Stockpile #1										
Lab #0953	08-11-04	0.5	48.0	11.5	40.0	95.1	0.8	58.9	448	9
Lab #1412	10-25-04	0.3	45.7	10.9	43.1	94.9	1.4	61.1	464	17
Lab #1501	11-10-04	0.4	49.5	10.9	39.2	94.1	1.4	58.1	437	16
Lab #1667	12-13-04	1.0	48.3	11.3	39.6	92.6	0.7	58.5	433	8
MAGRUDER LIMESTONE CO-FRANKFORD, BOWLING GREEN, MO										
Stockpile #1										
Lab #0951	08-11-04	0.2	39.0	14.3	46.5	97.4	1.5	64.8	505	19
Lab #1413	10-25-04	0.6	37.9	9.5	52.0	98.2	1.6	67.2	528	21
Lab #1668	12-13-04	1.0	38.7	12.1	48.7	98.5	1.5	65.6	517	20
MAGRUDER LIMESTONE - SILEX QUARRY, TROY, MO										
Stockpile #2										
Lab #0949	08-10-04	1.9	44.1	8.0	46.0	93.5	3.6	61.8	462	45
Lab #1505	11-10-04	3.6	49.1	8.2	39.1	87.4	2.9	56.3	394	33
Lab #1670	12-13-04	3.2	48.8	6.9	41.1	87.6	3.1	57.4	403	36
MAGRUDER LIMESTONE CO Q TROY, TROY, MO										
Stockpile #1										
Lab #0950	08-10-04	5.9	42.4	10.5	41.2	95.4	2.3	58.1	443	27
Lab #1504	11-10-04	5.4	44.6	10.0	40.0	92.9	2.3	57.2	425	26
Lab #1671	12-13-04	4.0	45.4	9.2	41.4	93.3	2.4	58.3	435	28
MANSFIELD LIME & STONE, MANSFIELD, MO										
Stockpile #2										
Lab #1207	09-22-04	0.2	45.4	8.9	45.5	81.3	10.0	62.2	404	124
MARTIN MARIETTA AGG - APPLETON, PERRYVILLE, MO										
Stockpile #1										
Lab #0857	07-12-04	1.4	66.9	9.3	22.4	93.8	2.5	44.7	335	22
Lab #0887	08-02-04	0.7	64.2	10.3	24.8	93.9	2.9	47.0	353	27
Lab #1128	09-09-04	0.4	73.8	7.2	18.6	91.9	4.6	41.4	304	38
Lab #1363	10-15-04	0.5	66.7	10.1	22.7	93.5	3.8	45.4	340	35
Lab #1590	11-30-04	1.1	65.4	9.1	24.4	95.7	1.6	46.2	354	15
MARTIN MARIETTA AGGREGATE-FREDONIA, FREDONIA, KY										
MARTIN MARIETTA-GREENWOOD, GREENWOOD, MO										
MARTIN MARIETTA MATERIALS-PECULIAR, PECULIAR, MO										
Stockpile #1										
Lab #1077	08-26-04	9.3	54.3	8.4	28.0	91.4	0.7	46.6	341	7
Lab #1273	09-28-04	8.5	48.5	9.9	33.1	91.1	0.8	51.2	373	8
Lab #1395	10-20-04	7.0	50.6	9.7	32.7	92.1	0.7	51.2	377	7
MARTIN MARIETTA AGG-PERRYVILLE, PERRYVILLE, MO										
Stockpile #1										
Lab #1085	08-26-04	0.1	9.4	8.1	82.4	93.5	2.0	89.6	670	36
Lab #1269	09-30-04	0.6	14.5	11.4	73.5	94.4	1.7	84.0	634	29
Lab #1524	11-09-04	0.0	1.2	4.4	94.4	96.3	3.3	97.3	750	64
MARTIN MARIETTA AGGREGATES-WATERSO, DES MOINES, IA										
Stockpile #1										
Lab #1170	09-13-04	1.2	48.9	11.8	38.1	80.0	0.6	57.4	367	7
Lab #1339	10-12-04	2.6	43.1	10.6	43.7	74.5	2.4	60.8	363	29
Lab #1485	11-03-04	1.4	47.9	10.6	40.1	76.9	2.1	58.4	359	25
MARTIN MARIETTA AGGREGATES INC, WEEPING WATER, NE										
Stockpile #1										
Lab #1174	09-14-04	3.7	50.6	9.6	36.1	88.8	0.4	54.5	387	4
Lab #1344	10-14-04	4.9	43.7	10.0	41.4	90.1	0.4	58.3	420	5
Lab #1489	11-04-04	6.5	60.3	8.1	25.1	87.1	0.5	45.0	314	5
Lab #1633	12-09-04	6.0	50.6	8.9	34.4	90.5	0.8	52.4	379	8

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2004

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 #0954	08-12-04	3.5	48.4	9.1	39.0	96.4	6.5	56.6	436	74
Lab #1410	10-25-04	5.6	40.7	10.5	43.2	91.8	1.5	59.7	438	18
Lab #1500	11-10-04	17.0*	37.0	7.7	38.3	94.4	5.3	52.2	0	0
Lab #1642	12-08-04	6.0	49.8	9.6	35.1	97.8	4.7	53.3	417	50
Stockpile #3										
Lab #0955	08-12-04	6.1	47.2	8.4	38.3	90.9	2.6	55.1	401	29
Lab #1411	10-25-04	5.6	47.7	7.6	39.1	88.3	3.1	55.6	393	34
Lab #1499	11-10-04	5.6	46.2	11.5	36.7	87.8	1.6	55.2	387	18
Lab #1641	12-08-04	6.0	45.7	8.3	39.6	90.7	3.1	56.0	406	35
MERTENS CONST CO-Q-REFORM, KINGDOM CITY, MO										
Stockpile #1										
Lab #0895	08-02-04	3.4	57.2	8.2	31.2	85.7	3.1	50.4	346	31
Lab #1086	08-27-04	4.3	60.6	8.4	26.7	90.0	1.1	46.9	338	10
Lab #1403	10-20-04	5.6	51.6	9.3	33.5	88.8	1.4	52.0	369	15
Lab #1647	12-06-04	3.0	51.8	9.2	36.5	88.9	2.1	55.0	391	23
MFA INC, COLUMBIA, MO										
MID-COUNTY SAND & GRAVEL QUARRY, INC, WAYNESVILLE, MO										
Stockpile #1										
Lab #1675	12-15-04	0.0	0.8	4.7	94.5	89.3	11.2	97.5	697	218
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Stockpile #1										
Lab #0896	08-02-04	2.0	49.9	11.1	37.0	94.4	2.7	56.1	424	30
Lab #1155	09-09-04	4.4	51.3	5.8	38.5	92.5	2.2	54.8	406	24
Lab #1335	10-12-04	4.4	50.5	11.5	33.6	96.1	2.1	53.1	408	22
Lab #1458	11-03-04	4.3	47.5	10.3	37.9	94.8	2.1	56.0	424	24
Lab #1646	12-06-04	4.0	50.6	11.4	33.6	95.8	2.3	53.1	407	24
Stockpile #2										
Lab #0897	08-02-04	4.2	52.1	10.8	32.9	97.5	2.9	52.4	409	30
Lab #1156	09-09-04	7.9	52.5	9.0	30.6	94.2	2.0	49.1	370	20
MID-MISSOURI LIMESTONE, INC.-HOUSTO, KINGDOM CITY, MO										
Stockpile #1										
Lab #0942	08-10-04	5.3	48.5	11.4	34.8	89.0	0.2	53.8	383	2
Lab #1074	08-27-04	7.9	46.4	11.8	33.9	92.0	0.2	52.6	387	2
Lab #1234	09-23-04	5.6	47.8	13.0	33.6	89.0	0.2	53.4	380	2
Lab #1330	10-14-04	7.0	47.8	11.5	33.7	91.1	0.2	52.6	383	2
Lab #1476	11-02-04	6.0	47.8	11.4	34.8	90.0	0.1	53.6	386	1
Lab #1678	12-30-04	7.3	51.8	10.2	30.7	91.2	0.3	49.8	363	3
Stockpile #2										
Lab #1477	11-02-04	7.2	46.7	11.3	34.8	91.6	0.1	53.3	390	1
Lab #1611	12-03-04	9.0	45.8	10.9	34.8	91.2	0.6	52.8	385	6
Lab #1679	12-30-04	7.9	45.9	10.8	35.4	90.9	0.1	53.4	388	1
MID-MISSOURI LIMESTONE-RIGGS, KINGDOM CITY, MO										
Stockpile #2										
Lab #0956	08-12-04	5.8	46.6	8.8	38.8	93.0	2.5	55.7	415	28
Lab #1312	10-11-04	2.4	39.6	10.4	47.6	95.5	3.6	63.7	487	46
Lab #1630	12-09-04	4.0	45.9	9.7	40.7	93.8	3.1	58.0	435	36
Lab #1676	12-14-04	4.8	49.1	9.3	36.8	96.3	2.9	54.7	421	32
MIDWEST MINERALS INC - JASPER, PITTSBURG, KS										
Stockpile #1										
Lab #1028	08-18-04	0.2	37.0	16.6	46.2	97.6	0.1	65.4	511	1
Lab #1452	10-25-04	0.1	38.4	17.3	44.2	97.5	0.1	64.2	501	1
MISSISSIPPI LIME COMPANY, STE GENEVIEVE, MO										
Stockpile #1										
Lab #1093	08-26-04	0.0	0.2	0.5	99.3	98.5	0.3	99.7	785	6
Lab #1266	09-29-04	0.0	0.4	0.7	98.9	98.8	0.2	99.4	786	4
Lab #1522	11-08-04	0.0	0.1	0.4	99.5	99.1	0.1	99.8	791	2
Stockpile #3										
Lab #1094	08-26-04	0.0	39.2	33.0	27.8	98.5	0.2	57.4	452	2
Lab #1267	09-29-04	0.0	44.3	31.0	24.7	98.8	0.1	54.4	430	1
Lab #1523	11-08-04	0.0	42.1	30.2	27.7	99.3	0.2	56.3	448	2
MISSOURI LIME AND MATERIAL CO., INC, EUREKA, MO										
Stockpile #1										
Lab #1525	11-10-04	6.3	44.0	7.1	42.6	97.2	4.5	57.9	450	52
Stockpile #2										
Lab #1022	08-16-04	0.0	0.3	2.5	97.2	97.7	5.7	98.8	772	113

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JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
MISSOURI LIME AND MATERIAL CO., INC, EUREKA, MO (Cont.)										
Stockpile #2										
Lab #1407	10-18-04	0.5	0.4	3.6	95.5	98.4	5.3	97.8	770	104
Lab #1650	12-07-04	1.0	0.9	4.3	93.9	98.3	4.9	96.7	760	95
MISSOURI VALLEY MATERIALS, RHINELAND, MO										
Stockpile #1										
Lab #1270	10-01-04	2.6	44.6	9.2	43.6	78.0	9.4	60.3	376	113
Lab #1300	10-04-04	3.3	43.8	11.0	41.9	78.4	9.4	59.5	373	112
Lab #1302	10-08-04	3.0	47.4	10.6	39.0	80.4	9.7	57.2	368	111
Lab #1538	11-17-04	3.0	47.4	8.2	41.4	81.2	10.2	58.2	378	119
MK MINERALS INC., MANHATTAN, KS										
Stockpile #1										
Lab #0993	08-10-04	0.0	0.3	1.1	98.6	85.2	0.7	99.3	677	14
Lab #1122	09-03-04	0.1	0.8	1.4	97.7	83.8	0.7	98.7	662	14
Lab #1348	10-15-04	0.0	1.4	1.3	97.3	85.4	0.6	98.4	672	12
Lab #1547	11-15-04	0.1	0.2	1.1	98.6	85.6	0.7	99.3	680	14
MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA										
MORRIS ROCK, DEERFIELD, MO										
Stockpile #1										
Lab #0928	08-05-04	2.7	54.0	11.4	31.9	93.3	0.8	52.2	390	8
Lab #1278	09-30-04	1.7	54.5	11.0	32.8	91.4	0.5	53.0	388	5
MOUNTAIN GROVE QUARRY, MOUNTAIN GROVE, MO										
Stockpile #1										
Lab #1299	10-08-04	0.2	53.1	9.4	37.3	89.1	10.5	56.2	401	118
MUEKNS BROTHERS QUARRIES, INC-WEST, LOOSE CREEK, MO										
Stockpile #1										
Lab #0967	08-09-04	3.4	42.3	8.8	45.5	92.1	11.1	61.4	452	136
Lab #1264	09-27-04	5.3	38.4	11.1	45.2	86.7	10.4	61.5	426	128
Lab #1587	11-29-04	0.2	40.0	10.5	49.3	83.8	10.5	65.6	440	138
MUEKNS BROS. QUARRY, LOOSE CREEK, MO										
Stockpile #2										
Lab #0975	08-12-04	1.0	48.3	9.5	41.2	84.4	10.3	59.0	398	121
Lab #1154	09-08-04	0.9	45.5	8.7	44.9	91.0	10.8	61.5	448	133
Lab #1336	10-13-04	0.7	44.2	11.2	43.9	93.2	11.1	61.7	460	137
Lab #1586	11-23-04	0.3	37.0	11.2	51.5	91.5	11.4	67.5	494	154
KEITH MURRAY, PLATO, MO										
NELSON BROS. QUARRIES, JASPER, MO										
Stockpile #1										
Lab #1029	08-18-04	3.1	46.1	14.5	36.3	97.6	0.2	56.5	441	2
Lab #1453	10-25-04	3.5	50.0	12.0	34.5	96.3	0.3	54.2	418	3
NEMO SAND & GRAVEL QUARRY - BUFFALO, HERMITAGE, MO										
Stockpile #1										
Lab #1084	08-30-04	2.5	45.7	6.5	45.3	83.5	10.2	60.6	405	124
Lab #1277	09-29-04	4.0	47.5	6.5	42.0	82.1	9.9	57.8	379	114
Lab #1472	11-04-04	3.1	44.0	6.4	46.5	85.4	10.1	61.3	419	124
NEMO SAND & GRAVEL, QUARRY, HERMITAGE, MO										
Stockpile #1										
Lab #1001	08-12-04	12.8*	35.2	7.0	45.0	81.8	9.9	58.0	0	0
Lab #1146	09-09-04	0.1	40.7	8.6	50.6	84.8	10.0	65.9	447	132
Lab #1392	10-18-04	0.0	40.4	11.3	48.3	73.5	8.7	65.2	383	113
Lab #1556	11-16-04	0.0	36.6	11.1	52.3	75.1	9.1	68.1	409	124
NORRIS AGGREGATE PROD. CO.-BARNARD, SAVANNAH, MO										
NORRIS AGGREGATES PROD. CO.-BETHANY, SAVANNAH, MO										
Stockpile #3										
Lab #1064	08-23-04	2.1	47.3	10.4	40.2	81.2	1.1	58.3	378	13
Lab #1183	09-14-04	1.1	47.2	11.6	40.1	80.6	1.2	58.9	380	14
Lab #1293	10-05-04	2.9	48.2	12.3	36.6	85.8	1.1	56.0	385	12
Lab #1516	11-10-04	1.3	45.0	11.1	42.6	81.3	1.2	60.5	394	15
Lab #1598	12-01-04	0.3	43.6	10.2	45.9	79.6	1.3	62.9	401	16
NORRIS AGGREGATE PROD. CO. - BREIT, SAVANNAH, MO										
Stockpile #1										
Lab #0977	08-10-04	4.8	53.6	10.4	31.2	86.7	0.9	50.8	353	9
Lab #1119	09-03-04	5.3	52.6	10.4	31.7	86.0	0.8	51.1	351	8
Lab #1342	10-13-04	6.2	52.9	10.2	30.7	85.5	0.9	50.0	342	9
Lab #1549	11-15-04	5.6	52.5	10.3	31.6	85.3	0.8	50.9	347	8

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JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
NORRIS AGGREGATE PROD. CO.-GALLATIN, SAVANNAH, MO										
Stockpile #1										
Lab #1033	08-16-04	5.7	50.0	8.8	35.5	75.0	1.8	53.3	320	19
Lab #1177	09-13-04	7.8	50.4	9.3	32.5	79.4	1.5	50.7	322	15
Lab #1380	10-19-04	6.1	52.4	10.2	31.3	77.1	1.2	50.5	312	12
Lab #1519	11-11-04	9.8	50.2	9.0	31.0	79.6	1.1	49.0	312	11
Lab #1600	12-03-04	3.5	54.1	11.2	31.2	88.1	0.6	51.4	363	6
NORRIS AGGREGATE PROD. CO.- GOODEN, SAVANNAH, MO										
Stockpile #1										
Lab #0915	08-03-04	2.7	47.3	8.8	41.2	82.7	1.8	58.3	386	21
Lab #1132	09-08-04	2.7	48.7	8.3	40.3	82.1	1.7	57.5	377	20
Lab #1682	10-19-04	8.0	51.8	6.6	33.6	83.5	2.1	50.5	337	21
Lab #1507	11-09-04	6.2	47.1	10.9	35.8	82.9	1.9	54.1	359	21
Lab #1551	11-18-04	4.2	49.0	9.9	36.9	83.4	1.7	55.1	368	19
NORRIS AGGREGATE PRODUCTS CO - EAST, HUNTSVILLE, MO										
Stockpile #3										
Lab #1070	08-26-04	3.8	49.3	11.2	35.7	88.9	1.2	54.7	389	13
Lab #1216	09-21-04	1.4	50.4	14.0	34.2	90.9	0.6	55.2	401	7
Lab #1376	10-14-04	5.2	48.2	11.9	34.7	91.6	2.0	53.9	395	22
Lab #1482	11-02-04	1.4	48.7	13.7	36.2	93.4	0.5	56.6	423	6
Lab #1634	12-08-04	0.0	45.3	14.4	40.1	94.6	2.6	60.1	455	31
Stockpile #4										
Lab #1071	08-26-04	4.4	46.5	11.6	37.5	87.4	1.4	56.1	392	16
Lab #1215	09-21-04	0.3	46.8	15.5	37.4	97.0	1.2	58.4	453	14
Lab #1375	10-14-04	2.2	44.3	13.1	40.4	93.9	1.7	59.3	446	20
Lab #1483	11-02-04	3.2	47.8	12.7	36.3	90.3	1.4	55.9	404	16
Lab #1640	12-08-04	1.0	46.2	13.3	39.2	95.3	2.4	58.7	448	28
NORRIS AGGREGATE PRODUCTS CO - WEST, HUNTSVILLE, MO										
Stockpile #1										
Lab #1069	08-26-04	4.1	45.3	12.2	38.4	86.3	0.2	57.0	394	2
Lab #1214	09-21-04	4.2	50.4	12.3	33.1	86.4	0.3	53.1	367	3
Lab #1481	11-02-04	4.5	47.6	13.4	34.5	86.4	0.2	54.4	376	2
NORRIS AGGREGATE PROD. CO.-JEFFRIES, SAVANNAH, MO										
Stockpile #3										
Lab #1114	08-30-04	5.2	47.6	8.3	38.9	87.3	1.0	55.8	390	11
Lab #1182	09-14-04	4.3	48.1	9.8	37.8	88.4	1.1	55.7	394	12
Lab #1373	10-13-04	5.8	47.1	9.3	37.8	77.7	0.5	55.2	343	6
Lab #1513	11-09-04	5.2	47.2	10.4	37.2	82.7	0.8	55.2	365	9
Stockpile #4										
Lab #1113	08-30-04	6.8	49.8	8.7	34.7	86.7	0.9	52.4	363	9
Lab #1181	09-14-04	6.3	49.0	8.7	36.0	88.3	0.9	53.5	378	10
Lab #1374	10-13-04	3.9	49.4	10.4	36.3	88.7	0.8	54.9	389	9
Lab #1512	11-09-04	7.1	48.9	9.0	35.0	89.4	0.8	52.6	376	8
NORRIS AGGREGATE PROD. CO.-MAITLAND, SAVANNAH, MO										
Stockpile #2										
Lab #0918	08-06-04	7.2	40.7	7.9	44.2	83.1	1.7	59.1	393	20
Lab #1118	09-02-04	8.3	42.7	8.2	40.8	81.8	1.6	56.4	369	18
Lab #1688	10-21-04	7.2	43.9	8.2	40.7	83.1	1.5	56.6	376	17
NORRIS AGGREGATE PROD. CO.- MERCER, SAVANNAH, MO										
Stockpile #3										
Lab #1511	11-08-04	2.0	43.9	11.3	42.8	85.2	1.2	60.6	413	15
Lab #1540	11-18-04	1.2	39.8	11.2	47.8	86.0	1.1	64.5	444	14
Lab #1599	12-02-04	3.4	30.1	13.6	52.9	89.1	0.7	68.6	489	10
NORRIS AGGREGATE PROD CO-PRINCETON, SAVANNAH, MO										
NORRIS AGGREGATE PROD. CO.- TRENTON, SAVANNAH, MO										
Stockpile #1										
Lab #1031	08-16-04	3.5	50.9	10.2	35.4	76.5	1.2	54.2	332	13
Lab #1175	09-13-04	3.2	51.1	9.9	35.8	77.9	1.2	54.5	340	13
Lab #1295	10-07-04	7.7	50.4	9.2	32.7	76.9	1.2	50.8	313	12
Lab #1514	11-10-04	4.9	53.0	9.5	32.6	75.2	1.3	51.6	310	13
Lab #1603	12-03-04	1.8	48.6	12.3	37.3	75.4	1.3	56.8	343	15
Stockpile #3										
Lab #1032	08-16-04	3.0	54.9	7.8	34.3	75.2	1.3	52.7	317	14
Lab #1176	09-13-04	3.4	52.6	8.6	35.4	80.3	1.3	53.7	345	14
Lab #1294	10-07-04	4.3	53.5	8.1	34.1	92.0	1.2	52.3	385	13
Lab #1515	11-10-04	4.6	54.8	8.0	32.6	88.2	1.3	51.1	361	13
Lab #1604	12-03-04	2.0	50.5	9.6	37.9	85.0	1.1	56.3	383	12

* Does not meet minimum specification for Agricultural Liming Material.

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
NORRIS AGGREGATE PRODUCT CO-AMAZONI, SAVANNAH, MO										
Stockpile #1										
Lab #0976	08-09-04	1.0	43.7	14.9	40.4	88.7	1.0	60.3	428	12
Lab #1120	09-03-04	0.5	45.8	12.9	40.8	88.9	0.9	60.0	427	11
Lab #1346	10-15-04	1.2	44.6	16.1	38.1	86.6	1.1	58.9	408	13
Lab #1548	11-15-04	0.6	45.5	15.0	38.9	88.4	1.0	59.3	419	12
NORRIS AGGREGATE PRODUCTS-NEW POINT, CAMERON, MO										
NUTRI JECT - QUINCY, HUDSON, IA										
NUTRI-JECT SYSTEMS INC. - TRENTON, HUDSON, IA										
LEO O'LAUGHLIN INC, SHELBYNA, MO										
Stockpile #1										
Lab #0933	08-05-04	5.4	45.3	10.0	39.3	88.4	1.5	56.6	400	17
Lab #1315	10-11-04	9.9	47.0	8.9	34.2	90.5	1.5	51.3	371	15
Lab #1622	12-09-04	5.0	47.2	8.9	38.8	91.0	1.6	55.9	407	18
OSAGE QUARRIES, INC, KINGDOM CITY, MO										
PELLETIZING COMPANY INC, GORDONSVILLE, TN										
PHENIX ROCK, ASH GROVE, MO										
PRESTAGE QUARRIES INC, TIPTON, MO										
Stockpile #1										
Lab #0947	08-11-04	0.8	44.3	8.9	46.0	73.9	5.3	62.4	369	66
Lab #1166	09-13-04	0.1	44.7	9.8	45.4	75.5	5.3	62.5	377	66
Lab #1326	10-11-04	0.1	39.9	11.4	48.6	75.0	5.1	65.4	392	67
Lab #1533	11-16-04	0.0	44.1	10.7	45.2	72.0	6.2	62.6	361	78
Lab #1617	12-09-04	0.0	38.9	11.1	49.9	74.9	7.2	66.3	397	95
ROCK QUARRIES, LLC, MOUNTAIN GROVE, MO										
ROCK QUARRIES, LLC, MOUNTAIN GROVE, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Stockpile #1										
Lab #0855	07-08-04	9.3	17.4	19.6	53.7	97.3	11.5	69.8	543	161
Lab #0871	07-28-04	7.8	13.7	20.0	58.5	98.8	12.1	73.9	584	179
Lab #1126	09-08-04	6.8	13.9	22.4	56.9	100.0	12.1	73.8	591	179
Lab #1360	10-13-04	5.9	14.1	22.2	57.8	100.6	11.8	74.6	601	176
Lab #1497	11-04-04	4.8	13.7	20.4	61.1	99.9	12.2	76.8	614	187
Lab #1579	11-22-04	3.6	13.8	21.2	61.4	102.5	12.3	77.6	636	191
S & A CONSTRUCTION LTD, ALLENDALE, MO										
Stockpile #1										
Lab #0913	08-03-04	0.5	47.0	10.0	42.5	70.3	1.4	60.3	339	17
Lab #1130	09-08-04	0.1	51.9	9.7	38.3	77.6	1.2	57.1	354	14
Lab #1338	10-12-04	0.2	53.8	10.1	35.9	75.9	1.2	55.4	336	13
Lab #1484	11-03-04	0.1	49.7	9.3	40.9	70.5	1.6	58.9	332	19
SCHILDBERG CONST. CO.-BEDFORD Q., GREENFIELD, IA										
Stockpile #1										
Lab #0914	08-03-04	4.5	42.8	9.7	43.0	82.0	1.0	59.5	390	12
Lab #1131	09-08-04	2.4	43.3	11.0	43.3	86.3	0.8	60.7	419	10
Lab #1681	10-19-04	0.2	34.5	11.1	54.2	80.7	0.8	69.5	449	11
Lab #1486	11-03-04	0.4	33.3	11.0	55.3	79.0	0.9	70.2	444	13
Lab #1552	11-18-04	3.4	40.9	9.9	45.8	83.8	0.8	62.0	415	10
SCHILDBERG CONST. CO.-GRAHAM MO Q, GREENFIELD, IA										
Stockpile #1										
Lab #0917	08-06-04	4.9	53.6	9.5	32.0	88.3	0.7	51.1	361	7
Lab #1117	09-02-04	4.0	56.3	9.9	29.8	87.3	0.6	49.8	348	6
Lab #1687	10-21-04	3.1	50.0	12.1	34.8	88.2	0.7	54.6	385	8
Lab #1553	11-18-04	3.7	51.5	12.0	32.8	88.3	0.6	52.9	374	6
SCHILDBERG CONST. CO.-SHAMBAUGH Q, GREENFIELD, IA										
Stockpile #1										
Lab #0916	08-04-04	0.8	47.9	9.8	41.5	76.4	6.3	59.4	363	75
Lab #1171	09-13-04	5.7	51.3	8.8	34.2	77.5	6.4	52.3	324	67
Lab #1345	10-14-04	0.6	48.9	12.0	38.5	81.8	1.0	57.9	379	12
Lab #1508	11-09-04	2.6	51.4	10.9	35.1	84.3	1.5	54.5	367	16
SCHILDBERG CONST. CO.-THURMAN, GREENFIELD, IA										
Stockpile #1										
Lab #1172	09-14-04	3.9	45.0	11.5	39.6	82.6	0.8	57.8	382	9
Lab #1340	10-14-04	8.0	49.4	8.9	33.7	75.0	0.9	51.4	308	9
Lab #1487	11-04-04	8.0	53.5	8.5	30.0	75.9	0.8	48.5	294	8
Lab #1631	12-09-04	4.0	47.9	11.3	36.5	86.0	2.6	55.3	380	29

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
SIEGEL GRAVEL & EXCAVATING, VERSAILLES, MO										
Stockpile #1										
Lab #0946	08-11-04	0.4	39.2	8.7	51.7	84.6	10.2	66.7	452	136
Lab #1165	09-13-04	0.3	39.4	9.8	50.5	88.6	10.5	66.2	469	139
Lab #1325	10-11-04	0.8	38.9	10.6	49.7	84.8	10.3	65.8	446	136
Lab #1532	11-16-04	0.8	41.1	7.8	50.3	85.2	10.1	65.3	445	132
Lab #1616	12-09-04	1.0	38.6	8.7	51.6	88.2	10.4	66.5	469	138
SOUTHWEST QUARRY & MATERIAL INC, ROLLA, MO										
SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO										
Stockpile #1										
Lab #1060	08-25-04	0.2	7.7	12.2	79.9	97.6	0.2	89.1	696	4
Stockpile #2										
Lab #1061	08-25-04	0.4	11.2	9.7	78.7	97.0	0.4	87.3	678	7
Lab #1387	10-19-04	1.1	14.2	9.9	74.8	97.4	0.1	84.3	657	2
Stockpile #3										
Lab #1062	08-25-04	1.6	19.8	14.8	63.8	97.7	0.1	77.6	607	2
Lab #1388	10-19-04	1.6	21.8	15.4	61.2	98.1	0.1	75.9	596	2
S-S-S INC, LOUISIANA, MO										
Stockpile #1										
Lab #0952	08-11-04	4.7	47.2	10.2	37.9	93.7	0.2	55.8	418	2
Lab #1503	11-10-04	4.0	47.8	11.5	36.7	97.1	0.2	55.6	432	2
Lab #1669	12-13-04	3.5	47.4	11.2	37.9	95.5	0.2	56.5	431	2
T & M STONE LLC, FAIR PLAY, MO										
Stockpile #2										
Lab #0878	08-03-04	0.9	39.8	15.9	43.4	95.6	0.1	62.9	481	1
Lab #1140	09-07-04	0.0	40.5	18.4	41.1	96.3	0.1	62.3	480	1
Lab #1355	10-14-04	0.1	41.8	17.1	41.0	94.2	0.1	61.7	465	1
TABLE ROCK ASPHALT CONST CO INC, BRANSON, MO										
Stockpile #1										
Lab #1054	08-24-04	2.6	53.8	8.0	35.6	90.1	10.8	53.9	388	116
Lab #1204	09-20-04	2.2	50.7	9.3	37.8	90.0	10.6	56.1	404	119
Lab #1463	11-03-04	10.8*	46.3	5.8	37.1	85.6	10.1	52.2	0	0
TABLE ROCK ASPHALT CONST CO INC-KIM, BRANSON, MO										
TAYLOR QUARRIES, LOCKWOOD, MO										
Stockpile #1										
Lab #1027	08-17-04	5.7	43.7	12.2	38.4	93.9	0.7	56.6	426	8
Lab #1655	12-07-04	7.0	42.0	12.1	39.3	91.5	0.7	57.1	418	8
TOWER ROCK STONE CO, SCOTT CITY, MO										
Stockpile #1										
Lab #0847	07-01-04	0.6	42.5	14.5	42.4	96.0	0.9	61.7	474	11
Stockpile #2										
Lab #0889	08-02-04	5.5	46.2	13.2	35.1	96.9	0.7	54.6	423	8
Lab #1098	09-02-04	2.2	44.3	13.6	39.9	96.7	1.1	59.1	457	13
Lab #1307	10-07-04	4.4	43.4	13.8	38.4	98.0	0.9	57.5	451	10
Stockpile #3										
Lab #1099	09-02-03	0.7	44.7	11.9	42.7	96.1	1.3	61.0	469	16
Lab #0890	08-02-04	2.0	40.1	14.4	43.5	97.5	1.0	62.2	485	12
Lab #1308	10-07-04	3.4	46.0	13.9	36.7	97.7	0.9	56.5	442	10
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Stockpile #1										
Lab #1095	08-26-04	2.0	45.5	14.9	37.6	97.7	1.3	57.9	453	15
Lab #1268	09-29-04	2.2	42.2	15.2	40.4	96.4	1.8	60.1	463	22
Lab #1521	11-08-04	1.4	48.5	13.7	36.4	97.5	1.9	56.7	443	22
TRAGER LIMESTONE, CHILLICOTHE, MO										
Stockpile #1										
Lab #1036	08-16-04	0.0	49.5	11.8	38.7	75.6	1.1	58.2	352	13
Lab #1180	09-13-04	0.1	47.2	12.3	40.4	80.5	0.7	59.6	384	8
Lab #1381	10-19-04	0.2	52.4	11.0	36.4	76.4	1.1	56.1	343	12
Lab #1509	11-11-04	0.1	44.3	11.9	43.7	76.6	1.2	61.9	379	15
TRUESDALE PACKAGING L.L.C., WARRENTON, MO										
Stockpile #1										
Lab #1200	09-14-04	0.4	1.0	1.2	97.4	9.3	0.3	98.4	73	6
Lab #1648	12-07-04	0.0	0.3	0.3	99.4	9.4	0.3	99.7	75	6
Lab #1654	12-10-04	0.0	1.8	0.8	97.4	6.9	0.2	98.3	54	4
TWIN LAKES QUARRIES INC, MOUNTAIN HOME, AR										

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TABLE 1

AGRICULTURAL LIMING MATERIALS SAMPLED FROM
JULY 1 THROUGH DECEMBER 31, 2004

Distributor	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
UEHLIN QUARRY, AMAZONIA, MO										
Stockpile #1										
Lab #0978	08-10-04	7.5	48.2	8.2	36.1	75.2	2.0	53.1	319	21
Lab #1121	09-03-04	12.2*	43.4	7.2	37.2	73.5	2.2	52.4	0	0
Lab #1347	10-15-04	0.4	46.1	12.2	41.3	75.0	2.0	60.1	361	24
UNITED SUPPLIERS, ELDORA, IA										
VULCAN MATERIALS, JONESBORO, IL										
Stockpile #1										
Lab #0859	07-12-04	3.5	42.2	9.4	44.9	99.0	0.5	61.1	484	6
Lab #0983	08-10-04	2.3	37.9	12.3	47.5	98.6	0.5	64.4	508	6
Lab #1161	09-15-04	3.6	41.3	11.9	43.2	98.7	0.4	60.7	479	5
Lab #1361	10-14-04	7.5	41.9	12.1	38.5	99.0	0.3	56.2	445	3
WADE AG PRODUCTS-MAIN OFC, LACYGNE, KS										
Stockpile #1										
Lab #1185	09-14-04	7.7	53.8	8.3	30.2	89.1	0.4	48.6	347	4
Stockpile #2										
Lab #0876	08-02-04	9.0	49.3	8.5	33.2	88.3	0.6	50.6	358	6
Lab #1186	09-14-04	5.7	46.7	8.9	38.7	86.9	1.2	55.7	387	13
Lab #1429	10-27-04	6.5	54.4	9.1	30.0	92.4	0.4	49.1	363	4
WADE AG PRODUCTS Q DREXEL, LACYGNE, KS										
Stockpile #2										
Lab #1554	11-15-04	4.8	50.7	8.8	35.7	88.9	0.6	53.7	382	6
WADE AG PRODUCTS Q PLEASANTON, LACYGNE, KS										
FRED WEBER INC.-AUBURN QUARRY, ELSBERRY, MO										
FRED WEBER INC.-BLUFF CITY MINERALS, ALTON, IL										
Stockpile #1										
Lab #1644	12-09-04	0.0	1.8	3.7	94.4	89.9	2.0	97.1	698	39
FRED WEBER, INC - FOLEY QUARRY, FOLEY, MO										
FRED WEBER INC-NORTH QUARRY, MARYLAND HEIGHTS, MO										
Stockpile #1										
Lab #1021	08-16-04	0.1	10.5	15.6	73.8	94.3	3.0	85.8	647	51
Lab #1406	10-18-04	0.8	11.5	16.1	71.6	96.0	1.2	84.1	646	20
Lab #1649	12-07-04	0.0	18.5	17.9	63.3	93.3	1.0	78.7	587	16
WEST LIMESTONE QUARRY, ARCADIA, MO										
Stockpile #1										
Lab #1157	09-10-04	1.6	45.4	12.8	40.2	100.1	11.7	59.2	474	139
WIELAND HAULING INC - PRINCETON, BETHANY, MO										
WILKERSON BROS QUARRY, PARIS, MO										
Stockpile #1										
Lab #0869	07-19-04	6.8	45.3	8.5	39.4	94.7	3.3	55.8	423	37
Lab #0939	08-06-04	5.3	45.5	11.2	38.0	94.9	4.0	56.1	426	45
Lab #1313	10-11-04	4.6	42.2	12.0	41.2	93.9	3.1	59.0	443	37
Lab #1570	11-17-04	0.8	47.1	10.9	41.2	93.0	3.9	59.5	443	46
Lab #1620	12-08-04	7.0	46.5	10.9	35.9	91.2	2.3	54.1	394	25
Stockpile #2										
Lab #1314	10-11-04	11.9*	46.7	11.3	30.1	83.8	0.1	48.6	0	0
Lab #1571	11-17-04	5.9	44.2	9.8	40.1	92.6	2.8	57.0	422	32
Lab #1619	12-09-04	2.0	43.8	12.6	41.9	94.5	4.0	60.4	457	48
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Stockpile #1										
Lab #0854	07-08-04	0.5	39.3	13.8	46.4	91.0	10.9	64.5	470	141
Lab #0872	07-28-04	0.2	36.5	15.7	47.6	94.5	11.4	66.1	500	151
Stockpile #2										
Lab #0987	08-12-04	0.2	31.7	18.1	50.0	96.7	11.6	68.8	532	160
Lab #1011	08-17-04	0.2	34.2	16.2	49.4	95.7	11.5	67.7	518	156
Lab #1047	08-26-04	0.2	34.1	16.4	49.3	96.4	11.6	67.7	522	157
Lab #1127	09-08-04	0.3	34.7	16.0	49.0	96.6	11.5	67.3	520	155
Lab #1359	10-13-04	0.3	38.9	15.5	45.3	93.3	11.1	64.3	480	143
Lab #1498	11-04-04	2.7	43.0	12.4	41.9	94.6	11.6	60.1	455	139
Lab #1580	11-22-04	8.3	48.1	9.0	34.6	96.1	11.5	52.0	400	120

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TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
AG DISTRIBUTORS, CATRON, MO										
VULCAN MATERIALS, JONESBORO, IL										
Lab #0891	08-04-04	0.7	25.1	13.7	60.5	98.1	0.5	75.0	589	7
Lab #1256	09-29-04	3.3	38.9	12.0	45.8	98.5	0.5	62.7	494	6
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0892	08-04-04	7.9	13.7	20.3	58.1	99.8	11.8	73.7	588	183
Lab #1255	09-29-04	6.4	11.6	24.0	58.0	100.2	11.9	75.3	604	179
AGRI ENTERPRISES, LICKING, MO										
SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO										
Lab #1209	09-23-04	0.1	6.7	10.6	82.6	97.6	0.2	90.6	708	4
AGRI SERVICES OF LEBANON, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0996	08-09-04	1.1	13.0	14.7	71.2	96.2	0.2	83.3	641	3
BEAUFORT FEED STORE, BEAUFORT, MO										
BEAUFORT FEED STORE, BEAUFORT, MO										
Lab #1238	09-21-04	0.3	1.3	3.1	95.3	97.5	5.0	97.5	760	97
BOLIVAR FARMERS EXCHANGE, BOLIVAR, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0880	08-03-04	0.0	8.9	15.0	76.1	96.4	0.2	87.3	673	3
Lab #1138	09-07-04	0.0	9.3	14.0	76.7	97.5	0.1	87.4	682	2
BOOTHEEL LIMESTONE, KENNETT, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1009	08-16-04	7.0	14.5	21.3	57.2	98.9	12.0	73.6	582	177
Lab #1494	11-03-04	6.6	12.7	18.7	62.0	102.3	12.3	76.4	625	188
Lab #1591	12-01-04	8.0	14.0	21.8	56.2	101.2	12.4	72.8	589	180
ARKANSAS LIME COMPANY, INC, BATESVILLE, AR										
Lab #0852	07-07-04	4.9	42.5	11.3	41.3	94.2	0.7	58.7	442	8
Lab #1008	08-16-04	4.8	37.1	13.6	44.5	94.2	1.7	61.9	467	21
Lab #1592	12-01-04	1.6	41.5	12.3	44.6	95.1	0.9	62.4	474	11
BOOTHEEL LIMESTONE - SENATH, KENNETT, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0851	07-07-04	6.4	11.8	21.9	59.9	98.8	11.9	76.0	601	181
Lab #1007	08-16-04	4.9	12.4	24.5	58.2	99.4	11.7	76.0	604	178
Lab #1495	11-03-04	4.2	10.9	17.9	67.0	100.8	12.3	80.5	649	198
BROWN'S AGRISERVICE, ROCKPORT, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1262	09-27-04	0.0	0.3	1.0	98.7	87.8	0.7	99.4	698	14
BROWN SAND & GRAVEL, CARUTHERSVILLE, MO										
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Lab #1357	10-12-04	2.4	44.7	14.4	38.5	96.1	0.9	58.3	448	10
Lab #1408	10-21-04	2.8	43.9	13.7	39.6	97.2	1.0	58.8	457	12
Lab #1490	11-01-04	2.4	45.0	14.2	38.4	96.1	0.9	58.2	447	10
BUCHHEIT'S INC, PERRYVILLE, MO										
MARTIN MARIETTA AGGREGATE-FREDONIA, FREDONIA, KY										
Lab #1241	09-27-04	8.9	81.9	2.8	6.4	98.2	1.4	28.6	224	8
CARNEALS FARM SUPPLY, INC, BLAIRSTOWN, MO										
UNITED SUPPLIERS, ELDORA, IA										
Lab #1221	09-21-04	0.1	0.9	2.2	96.8	84.0	0.7	98.3	661	14
CENTRAL MISSOURI AGRISERVICE LLC, SLATER, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1229	09-22-04	2.8	21.3	5.9	70.0	89.9	0.9	78.9	567	14
DOUG CHILDERS, GREEN CITY, MO										
KNOX COUNTY STONE CO, EDINA, MO										
Lab #0965	08-11-04	2.3	41.5	9.9	46.3	90.7	3.5	62.6	454	44
COLONIAL LIMESTONE INC-PRINCETON, MILAN, MO										
Lab #1111	08-30-04	11.2*	48.7	8.2	31.9	86.7	0.4	49.0	0	0
CROP PRODUCTION SERVICES, WESTBORO, MO										
MO VALLEY GRAIN & PELLETIZING, MISSOURI VALLEY, IA										
Lab #1438	10-27-04	0.9	5.4	8.5	85.2	88.8	0.3	91.7	651	5
DELTA GROWERS ASSN-EAST PRAIRIE, CHARLESTON, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0861	07-13-04	6.8	14.0	19.4	59.8	101.1	1.1	74.9	606	16
Lab #1163	09-16-04	5.7	13.4	24.8	56.1	98.1	12.1	74.3	583	180
ANNA QUARRY, ANNA, IL										
Lab #1162	09-16-04	3.3	36.6	11.9	48.2	98.1	0.5	64.5	506	6

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Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
DELTA GROWERS ASSN-EAST PRAIRIE, CHARLESTON, MO										
TOWER ROCK STONE CO, SCOTT CITY, MO										
Lab #0860	07-13-04	3.8	41.4	12.4	42.4	91.1	0.9	60.2	439	11
EAKIN LIME SERVICE, BELL CITY, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1287	10-04-04	4.9	19.4	23.6	52.1	100.5	11.9	71.1	572	169
Lab #1491	11-02-04	6.6	18.0	20.4	55.0	98.4	12.1	71.7	565	174
TOWER ROCK STONE CO, SCOTT CITY, MO										
Lab #0866	07-16-04	1.9	41.6	12.6	43.9	93.4	1.3	61.9	462	16
Lab #1096	08-30-04	3.0	46.1	13.7	37.2	95.7	0.9	56.9	436	10
Lab #1286	10-04-04	2.6	47.0	15.0	35.4	97.7	1.0	56.2	439	11
Lab #1492	11-02-04	2.5	45.6	14.2	37.7	97.4	0.9	57.6	449	10
FARMERS COOPERATIVE ASSN #301, SULLIVAN, MO										
FARMERS COOPERATIVE ASSN #301, SULLIVAN, MO										
Lab #1088	08-30-04	6.0	44.0	8.2	41.8	87.1	10.6	57.7	402	122
FARMERS PRODUCERS EXCHANGE-CONWAY, LEBANON, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0997	08-09-04	0.1	5.5	7.8	86.6	96.8	0.3	92.7	718	6
Lab #1585	11-23-04	0.0	11.7	14.2	74.1	96.8	0.1	85.5	662	2
FOWLER ELEVATOR INC, NEWTOWN, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1291	10-08-04	1.7	14.3	4.8	79.2	91.5	1.1	85.7	627	19
Lab #1419	10-27-04	1.2	14.2	4.7	79.9	91.2	1.1	86.3	629	19
FOWLER ELEVATOR, UNIONVILLE, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0964	08-11-04	1.2	17.8	4.0	77.0	89.4	1.2	83.9	600	20
Lab #1418	10-27-04	1.0	18.3	5.5	75.2	91.5	1.1	83.1	608	18
Lab #1594	11-30-04	1.3	17.1	4.4	77.2	91.6	1.1	84.1	616	19
GAGE'S FERTILIZER & GRAIN INC, BETHANY, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1383	10-20-04	0.0	1.1	2.0	96.9	83.8	0.6	98.4	660	12
GIBSON LIME CO-DEXTER, DEXTER, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0863	07-15-04	7.2	12.8	19.6	60.4	102.8	12.3	75.4	620	185
Lab #0984	08-12-04	3.8	9.2	22.5	64.5	98.3	12.0	80.3	631	193
Lab #1312	10-08-04	5.5	18.0	23.4	53.1	101.4	12.0	71.6	581	172
Lab #1565	11-15-04	5.3	14.6	21.9	58.2	100.7	12.0	75.0	604	180
TOWER ROCK STONE CO, SCOTT CITY, MO										
Lab #0865	07-15-04	2.0	44.1	12.5	41.4	97.5	1.8	59.9	467	22
Lab #0986	08-12-04	2.4	43.7	13.7	40.2	97.1	1.0	59.3	461	12
Lab #1323	10-08-04	2.6	42.6	13.0	41.8	97.1	1.1	60.3	468	13
Lab #1566	11-15-04	2.4	44.2	13.0	40.4	97.4	1.2	59.3	462	14
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Lab #0864	07-15-04	0.3	37.4	12.9	49.4	95.2	11.0	66.5	506	146
Lab #0985	08-12-04	0.7	38.2	14.7	46.4	93.4	11.2	64.8	484	145
Lab #1322	10-08-04	0.6	38.3	14.7	46.4	95.0	11.0	64.8	492	143
GRAY'S FARM SERVICE, NAYLOR, MO										
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Lab #1125	09-07-04	0.6	38.2	13.7	47.5	95.6	11.4	65.3	499	149
HAWK FERTILIZER, BOLIVAR, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0879	08-03-04	0.0	6.9	12.8	80.3	97.4	0.2	89.7	699	4
Lab #1139	09-07-04	0.0	9.7	14.0	76.3	97.3	0.1	87.1	678	2
Lab #1354	10-14-04	0.1	12.4	16.0	71.5	97.5	0.2	84.2	657	3
HEIMSOOTH AG SERVICE, CORDER, MO										
MID-MISSOURI LIMESTONE, INC.-HOUSTO, KINGDOM CITY, MO										
Lab #1324	10-08-04	7.4	47.0	11.2	34.4	90.5	0.2	52.9	383	2
HENSON FARM SUPPLY, WILLIAMSVILLE, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1243	09-27-04	2.4	29.1	30.3	38.2	97.1	11.7	63.7	494	149
LOUIS HERZTING JR, FREEBURG, MO										
SPRINGFIELD UNDERGROUND, INC., SPRINGFIELD, MO										
Lab #1026	08-19-04	0.6	8.5	7.4	83.5	97.2	0.2	90.1	700	4
Lab #1402	10-19-04	0.1	9.3	14.7	75.9	98.6	0.1	87.0	687	2

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		+8	-8+40	-40+60	-60				ENM	EMg
HOPKINS SEED & CHEMICAL INC., QULIN, MO										
WILLIAMSVILLE STONE CO, POPLAR BLUFF, MO										
Lab #1097	09-01-04	0.6	39.7	14.7	45.0	94.9	11.3	63.7	484	144
Lab #1364	10-11-04	0.5	35.1	15.9	48.5	94.8	11.4	66.8	507	152
INMAN FEED STORE, DONIPHAN, MO										
MIDWEST AGRI-CHEMICO, CAPE GIRARDEAU, MO										
Lab #1451	10-27-04	0.3	6.1	9.7	83.9	90.0	3.7	91.2	657	68
KELLY LIME & ROCK, LA PLATA, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1067	08-24-04	2.8	41.5	8.5	47.2	90.7	2.0	62.7	455	25
Lab #1285	10-01-04	6.2	41.2	9.1	43.5	91.3	1.6	59.3	433	19
KELSO MILLING CO, SCOTT CITY, MO										
UNITED SUPPLIERS, ELDORA, IA										
Lab #0846	07-01-04	0.2	1.2	0.6	98.0	17.2*	1.9	98.7	0	0
KEN MO AG CENTER, KENNETT, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0850	07-07-04	4.4	10.1	19.0	66.5	96.9	11.4	80.4	623	183
KEN MO AG CENTER, KENNETT, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0853	07-07-04	5.4	13.2	19.3	62.1	96.7	11.7	77.0	596	180
Lab #1010	08-16-04	5.3	12.9	22.2	59.6	99.2	12.2	76.1	604	186
Lab #1496	11-03-04	4.4	12.4	15.5	67.7	99.8	12.2	80.1	640	195
KINDER PLANT FOOD, LICKING, MO										
KINDER PLANT FOOD, LICKING, MO										
Lab #1208	09-23-04	0.7	8.4	7.0	83.9	98.2	0.2	90.2	709	4
LEGRAND FERTILIZER, POPLAR BLUFF, MO										
LEGRAND FERTILIZER, POPLAR BLUFF, MO										
Lab #1358	10-13-04	0.1	1.8	3.7	94.4	89.2	2.8	97.1	693	54
LINNEMAN LIME & FERT, SALISBURY, MO										
NORRIS AGGREGATE PRODUCTS CO - WEST, HUNTSVILLE, MO										
Lab #1251	09-28-04	0.6	46.3	16.1	37.0	96.4	1.3	58.2	449	15
Lab #1577	11-23-04	3.1	45.2	12.6	39.1	89.4	1.8	58.0	415	21
LOHMAN PRODUCERS EXCHANGE, LOHMAN, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #0966	08-09-04	1.1	15.3	4.3	79.3	90.4	1.0	85.7	620	17
LYNN SHARPE LIME, WAYNESVILLE, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #1151	09-07-04	0.1	15.8	15.4	68.7	96.8	0.2	81.9	634	3
MFA AGRI SERVICE, KIRKSVILLE, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1213	09-20-04	2.5	25.2	4.6	67.7	90.7	0.9	76.8	557	14
MFA EXCHANGE, CHAMOIS, MO										
MERTENS CONST CO-AUXVASSE, KINGDOM CITY, MO										
Lab #1442	10-27-04	4.2	52.7	8.1	35.0	98.6	7.8	53.0	418	83
MFA EXCHANGE, META, MO										
MUEKNS BROS. QUARRY, LOOSE CREEK, MO										
Lab #0968	08-10-04	1.1	47.8	8.5	42.6	89.2	10.6	59.7	426	126
MFA AGRI SERVICES, ADVANCE, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0873	07-28-04	7.6	14.3	21.2	56.9	100.0	12.2	73.2	586	179
Lab #1159	09-10-04	6.2	12.0	22.1	59.7	100.5	12.1	76.0	611	184
MFA AGRI SERVICE, ALBANY, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1337	10-12-04	0.0	0.5	1.1	98.4	84.8	0.7	99.2	673	14
MFA AGRI SERVICE, BENTON, MO										
TOWER ROCK STONE CO, SCOTT CITY, MO										
Lab #1306	10-07-04	2.0	44.1	15.1	38.8	95.7	1.0	58.9	451	12
MFA AGRI SERVICE, BERNIE, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #0862	07-15-04	7.9	13.3	20.7	58.1	101.6	12.0	73.8	600	177
MFA AGRI SERVICE, BETHANY, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1382	10-20-04	0.2	1.2	4.2	94.4	94.6	0.3	97.2	736	6
Lab #1597	12-01-04	0.1	3.0	4.0	92.9	94.7	0.3	96.1	728	6

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		+8	-8+40	-40+60	-60				ENM	EMg
MFA AGRI SERVICE, BROOKFIELD, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1372 10-12-04	1.3	16.9	4.8	77.0	89.8	1.1	84.1	604	19
MFA AGRI SERVICE, BROWNING, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1042 08-20-04	1.7	17.3	4.3	76.7	90.5	1.2	83.6	605	20
	Lab #1377 10-15-04	1.9	18.0	4.5	75.6	91.0	1.1	82.8	603	18
AGRISERVICE OF BRUNSWICK, L.L.C., BRUNSWICK, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1202 09-21-04	1.5	23.5	4.7	70.3	90.6	1.0	79.0	573	16
MFA AGRI SERVICE, COLE CAMP, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1228 09-23-04	1.3	14.4	4.9	79.4	90.6	1.0	85.9	623	17
MFA AGRI SERVICE, JEFFERSON CITY, MO MFA INC, COLUMBIA, MO	Lab #0898 08-03-04	0.2	4.2	4.8	90.8	88.8	2.6	94.7	673	49
MFA AGRI SERVICE, LANCASTER, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1037 08-17-04	2.6	16.3	4.0	77.1	90.9	1.2	83.6	608	20
	Lab #1595 11-30-04	2.0	22.4	4.8	70.8	91.5	1.1	79.3	580	17
FARMERS PRODUCE EXCHANGE, LEBANON, MO CONCO QUARRIES INC Q US 160, WILLARD, MO	Lab #0995 08-09-04	0.1	10.4	14.3	75.2	96.8	0.2	86.4	669	3
MFA AGRI SERVICE, LEXINGTON, MO MFA AGRI SERVICE, LEXINGTON, MO	Lab #1593 11-10-04	0.0	4.1	4.9	91.0	89.5	1.8	95.0	680	34
MFA AGRI SERVICE, MACON, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1371 10-11-04	1.5	14.8	4.4	79.3	89.0	1.1	85.6	610	19
MFA AGRI SERVICE, MILAN, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1068 08-25-04	2.6	14.4	4.1	78.9	91.5	1.3	85.0	622	22
	Lab #1292 10-04-04	3.2	18.6	5.8	72.4	91.6	1.1	80.5	590	18
MFA AGRI SERVICE, OWENSVILLE, MO CRAWFORD LIME & MATERIAL CO, CUBA, MO	Lab #0973 08-12-04	3.1	38.8	9.4	48.7	84.8	10.4	64.0	434	133
	Lab #1236 09-20-04	3.3	46.1	10.3	40.3	87.0	10.4	58.0	404	121
MFA AGRI SERVICE, ST CLAIR, MO MISSOURI LIME AND MATERIAL CO., INC, EUREKA, MO	Lab #1089 08-30-04	0.1	0.3	2.8	96.8	98.5	5.5	98.6	777	108
MFA EXCHANGE, SALEM, MO RUBLE ROCK & LIME INC, PATTERSON, MO	Lab #1025 08-18-04	6.0	11.9	23.4	58.7	98.0	12.1	75.7	594	183
	Lab #1265 09-28-04	6.3	16.5	25.1	52.1	98.7	11.6	71.3	563	165
	Lab #1652 12-08-04	5.0	15.4	23.9	56.0	99.9	12.0	74.2	593	178
MFA AGRI SERVICE, SALISBURY, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1252 09-28-04	3.2	15.4	4.9	76.5	90.6	0.9	83.3	604	15
MFA AGRI SERVICE, TRENTON, MO MK MINERALS INC., MANHATTAN, KS	Lab #1115 09-02-04	2.0	15.4	5.4	77.2	89.5	1.0	84.3	604	17
	Lab #1480 11-01-04	2.1	14.0	6.5	77.4	90.8	1.0	84.8	616	17
MFA AGRI SERVICE, UNIONVILLE, MO KELLY LIMESTONE LLC, KIRKSVILLE, MO	Lab #1426 10-27-04	2.0	15.8	4.7	77.5	91.1	1.2	84.3	614	20
MRM AG SERVICE INC, EAST PRAIRIE, MO RUBLE ROCK & LIME INC, PATTERSON, MO	Lab #0893 08-05-04	8.2	14.4	20.4	57.0	98.3	11.8	72.8	573	172
	Lab #1258 09-30-04	9.0	13.6	21.3	56.1	99.3	11.7	72.3	574	169
	Lab #0894 08-05-04	3.0	41.1	11.9	44.0	98.2	0.5	61.4	482	6
	Lab #1259 09-30-04	3.2	38.3	12.3	46.2	98.2	0.4	63.2	496	5
	Lab #1257 09-30-04	0.5	38.6	17.0	43.9	96.2	11.3	63.8	491	144

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		+8	-8+40	-40+60	-60				ENM	EMg
NEELYVILLE AG CENTER, NEELYVILLE, MO										
MARTIN AGGREGATES, BLACK ROCK, AR										
Lab #0868	07-22-04	2.1	60.7	7.9	29.3	96.1	10.5	49.2	378	103
LEO O'LAUGHLIN, MACON, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #1066	08-24-04	1.7	32.1	12.5	53.7	92.4	0.7	69.2	512	10
Lab #1219	09-23-04	1.5	30.4	13.5	54.6	91.9	0.6	70.3	517	8
Lab #1446	10-28-04	2.1	30.0	12.8	55.1	93.1	0.8	70.3	523	11
Lab #1638	12-08-04	2.0	31.5	13.1	53.9	92.3	0.6	69.6	514	8
LEO O'LAUGHLIN INC, QUARRY DIVISION, SHELBYNA, MO										
Lab #1065	08-24-04	6.4	46.5	9.3	37.8	89.2	1.5	55.0	393	17
Lab #1218	09-23-04	7.4	45.7	9.5	37.3	90.1	1.5	54.5	393	16
Lab #1447	10-28-04	6.2	48.0	9.4	36.4	90.6	1.5	54.0	392	16
Lab #1639	12-08-04	5.0	46.5	9.1	39.7	90.7	1.6	56.8	412	18
LEO O'LAUGHLIN INC, MARCELINE, MO										
CENTRAL STONE COMPANY - HUNTINGTON, HANNIBAL, MO										
Lab #0961	08-09-04	1.9	29.8	12.8	55.5	92.6	0.9	70.6	523	13
Lab #1283	09-29-04	2.2	31.6	12.6	53.6	93.1	0.9	69.1	514	12
Lab #1444	10-28-04	2.7	30.4	12.2	54.7	93.4	1.1	69.6	520	15
Lab #1635	12-09-04	3.0	30.4	12.4	54.4	93.7	1.0	69.4	521	14
LEO O'LAUGHLIN INC, QUARRY DIVISION, SHELBYNA, MO										
Lab #0962	08-09-04	6.7	44.3	10.3	38.7	89.2	1.4	56.0	399	16
Lab #1284	09-29-04	4.7	45.5	10.7	39.1	89.0	1.3	56.9	405	15
Lab #1445	10-28-04	5.7	46.7	10.3	37.3	86.1	1.6	55.2	380	18
Lab #1636	12-09-04	5.0	43.7	10.2	41.1	87.2	1.5	58.1	406	17
OLD MILL GRAIN & SEED CO, HARRISONVILLE, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1271	09-28-04	0.1	1.0	3.0	95.9	83.7	0.9	98.0	656	18
RICHLAND PLANT FOODS, RICHLAND, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #0969	08-10-04	0.1	8.4	13.6	77.9	97.8	0.2	88.2	690	4
Lab #1152	09-07-04	0.0	11.1	15.0	73.9	97.7	0.2	85.7	670	3
JP ROSS COTTON CO-FRISCO, ESSEX, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1046	08-23-04	6.0	11.2	23.6	59.2	97.5	11.7	76.2	594	178
Lab #1288	10-04-04	7.3	15.5	25.5	52.0	101.1	12.1	71.0	574	172
Lab #1493	11-02-04	6.6	16.0	17.9	59.5	101.1	12.5	74.2	600	186
SCHAEFERKOETTER STORE, MT STERLING, MO										
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Lab #0971	08-11-04	5.1	49.9	10.9	34.1	95.5	2.6	53.1	406	28
SEHLKE TRUCK SERVICE, KEYTESVILLE, MO										
NORRIS AGGREGATE PRODUCTS CO - EAST, HUNTSVILLE, MO										
Lab #1250	09-28-04	2.0	46.4	13.8	37.8	88.1	0.7	57.7	407	8
Lab #1576	11-23-04	3.2	39.7	14.8	42.3	88.9	1.4	61.1	435	17
SOUTHEAST COOPERATIVE SERVICE, ADVANCE, MO										
MIDWEST AGRI-CHEMICO, CAPE GIRARDEAU, MO										
Lab #1409	10-21-04	0.0	0.8	2.7	96.5	87.8	0.3	98.3	691	6
SOUTHEAST COOP SERVICE, PUXICO, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1048	08-26-04	3.9	10.7	21.3	64.1	96.2	11.8	79.6	612	188
TOWER ROCK STONE CO, STE GENEVIEVE, MO										
Lab #1049	08-26-04	6.7	45.1	10.9	37.3	97.6	0.7	55.1	430	8
WEST CENTRAL AGRISERVICE, LLC, HARRISONVILLE, MO										
MK MINERALS INC., MANHATTAN, KS										
Lab #1079	08-26-04	0.0	0.6	0.8	98.6	88.5	0.7	99.2	703	14
WEST LIME & FERTILIZER, STEELVILLE, MO										
RUBLE ROCK & LIME INC, PATTERSON, MO										
Lab #1024	08-18-04	4.7	13.7	21.1	60.5	99.1	12.2	76.6	607	187
WOODY BOGLER LIME-ROSEBUD, ROSEBUD, MO										
MID-MISSOURI LIMESTONE INC-MBQ, KINGDOM CITY, MO										
Lab #0972	08-11-04	5.0	47.7	10.4	36.9	95.0	2.2	55.1	418	24
Lab #1237	09-21-04	5.2	50.5	11.1	33.2	92.0	0.9	52.5	386	9
WORTHINGTON AG SERVICE, WORTHINGTON, MO										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1212	09-20-04	1.4	16.9	6.0	75.7	90.4	1.0	83.5	604	17

* Does not meet minimum specification for Agricultural Liming Material.

TABLE 2

AGRICULTURAL LIMING MATERIALS SAMPLED FROM

JULY 1 THROUGH DECEMBER 31, 2004

Dealer and Producer	Date Sampled	U.S. Sieve Fraction, %				%CCE	%Mg	Fineness Factor	Pounds/Ton	
		+8	-8+40	-40+60	-60				ENM	EMg
WORTHINGTON AG SERVICE, WORTHINGTON, MO (Cont.)										
KELLY LIMESTONE LLC, KIRKSVILLE, MO										
Lab #1596	11-30-04	1.5	18.4	5.6	74.5	91.2	1.0	82.5	602	16
ZWEERINK-AGRI SERVICES, CROCKER, MO										
CONCO QUARRIES INC Q US 160, WILLARD, MO										
Lab #1150	09-07-04	0.0	9.9	14.9	75.2	96.1	0.2	86.6	666	3

* Does not meet minimum specification for Agricultural Liming Material.

**Combined Fertilizer/Ag lime Budget
FY04 income & Disbursements**

	Ag Lime Fees	Fertilizer Fees	Other	Combined
CARRYFORWARD FY03			432,334	432,334
REVENUE:				
Tonnage Fees	86,610	1,047,358		1,133,968
Audits	204	4,608		4,812
Permit Fees	21,500	100,900		122,400
Deficeincy Payments	0	9,526		9,526
Late Payment Fees	2,109	10,136		12,245
Total Revenue Available	110,423	1,172,527		1,282,950
Total Funds Available	110,423	1,172,527	432,334	<u>1,715,285</u>
 DISBURSEMENTS:				
Inspection Services				492,023
Analytical Services				342,003
Experiment Station Chem Lab Support ¹				38,179
Special Equipment Reserve ²				35,000
Soil Fertility Conference				2,157
Annual Research Report				5,584
FY01 Continuing Proposals				8,250
FY02 Continuing Proposals				71,676
FY03 Continuing Proposals				138,002
FY04 New Proposals				125,121
Total Expenditures				1,257,995
 COMMITMENT:				
Contingency				68,000
Non-committed Research Funds				127,508
Balance available for Carryforward				261,782
Total Commitments				457,290
Total Expenditures/Commitments				<u>1,715,285</u>

Footnotes:

¹ S&W support to Experiment Station Chem Lab administrative personnel

² Per June 30, 1998 Fertilizer and Ag Lime Committee meeting minutes, \$50,000 (later changed to \$35,000) equipment reserve fund has been made available to T. Mawhinney for equipment upgrades in Analytical Services.

EXAMPLES OF FINENESS FACTOR CALCULATION, ENM, AND EMg

DERIVATION OF FINENESS FACTOR

EXAMPLE

<u>US Standard Sieve Fractions</u>	<u>Efficiency Index</u>		<u>% Found in sample</u>	=	<u>Fineness Components</u>
Retained on 8	0	x	<u>4.0</u>	=	<u>0</u>
Pass. 8-Ret. on 40	.25	x	<u>34.0</u>	=	<u>8.5</u>
Pass. 40-Ret. on 60	.60	x	<u>10.0</u>	=	<u>6.0</u>
Passing 60	1.00	x	<u>52.0</u>	=	<u>52.0</u>

Sum of fineness components = FINENESS FACTOR = 66.5

EFFECTIVE NEUTRALIZING MATERIALS (pounds per ton)

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

DRY AG LIME

	<u>FINENESS FACTOR</u>						
<u>% CCE</u>	<u>100</u>	<u>90</u>	<u>80</u>	<u>70</u>	<u>60</u>	<u>50</u>	<u>40</u>
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 lime

FLUID AG LIME

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 (pounds per ton)

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

	<u>FINENESS FACTOR</u>						
<u>% Mg</u>	<u>100</u>	<u>90</u>	<u>80</u>	<u>70</u>	<u>60</u>	<u>50</u>	<u>40</u>
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

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