

UNIVERSITY OF MISSOURI-COLUMBIA
Agricultural Experiment Station

MISSOURI FERTILIZER TONNAGE REPORT, 2013-14

FERTILIZER MATERIALS			DRY MIXED FERTILIZERS						LIQUID MIXED FERTILIZERS		
			BAGGED FERTILIZER			BULK MANUFACTURED					
<u>NITROGEN MATERIALS</u>	<u>FALL</u>	<u>SPRING</u>	<u>GRADES</u>	<u>FALL</u>	<u>SPRING</u>	<u>GRADES</u>	<u>FALL</u>	<u>SPRING</u>	<u>GRADES</u>	<u>FALL</u>	<u>SPRING</u>
Ammonium Sulfate	7,688*	40,808*	>1-1-1	2,992	38,300	0-18-36	6	81	2-6-32	---	547
Amm. Thiosulfate	562*	11,131*	6-24-24	107	177	1.5-7.2-24.5	---	810	3-9-27	---	453
N. Solutions (26-32%)	35,210*	167,751*	12-12-12	64	1,148	3-3-2	714	234	3-10-30	299	197
Ammonium Nitrate	15,232*	104,428*	13-13-13	652	1,614	4-3-2	148	708	3-18-18	2,019	2,076
Urea	37,856*	215,711*	15-0-05	75	439	6-15.3-27.3	77	14	4-10-10	---	403
Anhydrous Ammonia	58,218	173,090	17-0-05	257	1,023	6.5-.55-.45	155	1,283	5-0-20	183	113
Other	44,428	29,679	20-10-10	69	159	9-23-30	287	641	5-1-0	---	---
TOTAL	<u>199,194</u>	<u>742,598</u>	25-0-5	614	613	12-30-20	28	225	6-22-0	151	526
			26-0-3	22	254	17-17-17	50	405	6-24-6	294	1,627
			28-0-3	259	1,695	19-19-19	59	99	8-24-0	---	256
PHOSPHATIC MATERIALS			30-0-4	-1	854	25.8-8.6-8.6	---	514	9-18-9	75	264
Conc. Superphosphate	6,993*	4,741*	32-0-4	42	304	28-13-13	---	298	9-24-3	11	443
Phosphoric Acid	----	136	32-0-10	220	---	31-10-20	---	125	10-20-10	6	130
Rock Phosphate	---	---	Misc.	7,516	13,127	Misc.	23,626	32,690	10-30-0	125	125
Other	8	149	TOTAL	<u>12,888</u>	<u>59,707</u>	TOTAL	<u>25,150</u>	<u>38,127</u>	10-34-0	991	3,436
TOTAL	<u>7,001</u>	<u>5,026</u>	AMMONIUM PHOSPHATES								
POTASH MATERIALS			BAGGED FERTILIZER			BULK FERTILIZER					
Muriate of Potash	145,470*	291,772*	<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>					
Other	2,911	2,682	11-52-0	14	5	57,224*	62,905*				
TOTAL	<u>148,381</u>	<u>294,454</u>	18-46-0	1	---	63,994*	156,845*				
			TOTAL	<u>15</u>	<u>5</u>	<u>121,218</u>	<u>219,750</u>				
MISC. MATERIALS			=====								
Organics	9,728	23,542	TOTAL MIXED FERTILIZER			<u>FALL</u>	<u>SPRING</u>				
Other	168,508	145,594	TOTAL ALL FERTILIZERS			165,978	343,110				
TOTAL	<u>178,236</u>	<u>169,136</u>	GRAND TOTAL			698,790	1,554,324				
			<u>2,253,114</u>								
			=====								
TOTAL MATERIALS			<u>532,812</u>			<u>1,211,214</u>			PRINCIPAL BLENDING MATERIALS		
									(Approximate Tons Used in Blends)		
									<u>FALL</u>	<u>SPRING</u>	
									Ammonium Nitrate	12,186	83,542
									Urea	30,285	172,569
									Amm Phosphates	96,974	175,800
									Conc. Phosphates	5,594	3,793
									Muriate of Potash	116,376	233,418

* Includes tonnage reported as materials but blended prior to application

RECENT FERTILIZER SALES TRENDS IN MISSOURI

	% OF TOTAL SALES							
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
BAGGED FERTILIZERS								
Mixtures	3.5	3.8	5.8	2.6	3.6	4.0	3.6	3.5
Materials	0.6	0.7	1.6	1.3	1.3	0.7	0.6	0.5
TOTALS	<u>4.9</u>	<u>4.1</u>	<u>4.5</u>	<u>7.4</u>	<u>3.9</u>	<u>4.9</u>	<u>4.7</u>	<u>4.0</u>
BULK DRY FERTILIZERS								
Blends	50.4	50.4	39.8	48.1	48.0	44.3	45.0	44.3
Mfg'd. Mixtures	0.9	0.8	1.1	2.5	1.3	2.2	3.0	2.9
Dir. Appl. Material	12.6	12.6	10.0	12.0	12.0	11.1	11.2	11.1
TOTALS	<u>63.9</u>	<u>63.8</u>	<u>50.9</u>	<u>62.6</u>	<u>61.3</u>	<u>57.6</u>	<u>59.2</u>	<u>58.3</u>
LIQUID FERTILIZERS								
Mixtures	9.4	10.6	2.8	11.6	13.2	15.5	17.7	15.3
Nitrogen Solutions	14.4	12.2	27.9	11.9	9.3	10.6	9.2	12.1
Anhydrous Ammonia	8.2	8.9	11.0	10.0	11.3	11.5	9.7	10.3
TOTALS	<u>32.0</u>	<u>31.7</u>	<u>41.7</u>	<u>33.5</u>	<u>33.8</u>	<u>37.7</u>	<u>36.6</u>	<u>37.7</u>
TOTAL TONS	2,245,484	1,919,138	1,544,442	1,839,832	2,026,129	2,155,654	2,180,230	2,253,114

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 2013

Counties	Total All Fertilizers	MIXED FERTILIZER				FERTILIZER MATERIALS								PLANT FOOD		
		Bagged	Bulk Dry	Liquid	Total Mixed Fert.	Potash	Phosphate	AMM Phos	Ammonium Nitrate	Urea	Nitrogen Solution	NH ₃	Misc. Material	Nitrogen	Avail P ₂ O ₅	Sol-uble K ₂ O
Adair	969	18	58	27	103	406	---	322	---	130	---	---	8	110	192	250
Andrew	1617	21	---	25	46	642	---	602	79	102	---	124	22	264	306	388
Atchison	20017	5	994	914	1913	4604	---	5278	79	411	1657	5528	547	6055	3434	2768
Audrain	15177	1	466	149	616	5072	---	5173	---	1386	231	2534	165	3467	2873	3099
Barry	15401	22	37	14934	14993	28	---	77	258	---	---	19	26	128	49	21
Barton	6968	---	102	250	352	3094	---	1856	204	742	---	674	46	1322	941	1787
Bates	8258	2	1044	13	1059	3312	---	3014	26	586	76	136	49	1029	1853	1990
Benton	2487	---	329	25	354	782	---	531	---	518	52	80	170	467	379	493
Bollinger	878	6	---	17	23	401	---	377	26	50	1	---	---	100	175	241
Boone	4915	405	868	2	1275	1505	---	796	107	14	25	1154	39	1256	689	928
Buchanan	3221	176	185	---	361	786	---	694	102	110	5	721	442	811	444	486
Butler	2051	2	6	125	133	347	26	126	---	1334	---	---	85	653	90	231
Caldwell	2917	2	52	---	54	1141	---	1287	---	317	---	108	10	433	646	684
Callaway	1997	5	124	---	129	760	---	611	109	---	71	304	13	420	341	461
Camden	50	40	---	---	40	1	---	---	---	---	---	---	9	7	1	3
Cape Girardeau	4580	192	159	112	463	1816	264	1142	50	305	72	80	388	587	710	1168
Carroll	7041	---	826	---	826	2190	---	1799	44	420	29	1617	116	1847	1262	1335
Carter	6	2	---	2	4	1	---	---	---	---	---	---	1	---	---	---
Cass	7107	707	230	25	962	1871	---	1884	416	418	24	1211	321	1839	1076	1154
Cedar	734	---	130	---	130	347	---	177	26	53	---	---	1	81	133	201
Chariton	15450	7	2827	**	2554	4158	---	4151	6	679	359	3192	351	3785	2876	3108
Christian	250	246	---	---	246	---	---	---	---	---	---	---	4	24	5	12
Clark	10112	1	656	31	688	3444	---	2419	---	205	487	2425	444	2694	1334	2228
Clay	7948	232	---	7652	7884	24	---	---	---	11	---	---	29	147	97	15
Clinton	4741	38	---	---	38	1533	---	1985	103	106	3	674	299	1095	947	925
Cole	1637	100	80	---	180	581	---	450	161	163	50	41	11	282	249	360
Cooper	8026	14	979	26	1019	3154	---	2263	305	661	78	434	112	1227	1516	1958
Crawford	171	25	---	---	25	73	---	49	---	24	---	---	---	20	23	44
Dade	3130	700	---	---	700	956	---	615	411	236	---	---	212	442	308	541
Dallas	1088	---	---	30	30	207	25	340	486	---	---	---	---	227	169	124
Davies	1141	3	181	9	193	469	---	325	28	27	---	98	1	170	234	280
DeKalb	3584	---	186	---	186	1161	---	1469	149	24	80	514	1	747	777	705
Dent	330	---	---	---	---	227	---	76	26	---	---	---	1	22	34	136
Douglas	51	---	---	---	---	13	---	13	25	---	---	---	---	10	5	7
Dunklin	11035	5	118	4019	4142	2426	301	1975	---	1332	141	63	655	1181	1069	1491
Franklin	5520	168	185	---	353	1971	124	1682	200	697	41	401	51	1035	905	1212
Gasconade	873	18	---	6	24	175	25	147	155	345	1	---	1	240	82	108
Gentry	4070	4	450	19	473	1470	---	885	225	---	356	656	5	905	603	907
Greene	3624	1820	27	---	1847	734	84	166	533	73	---	---	187	536	224	523
Grundy	2627	2	345	---	347	812	---	666	54	52	103	591	2	717	427	497
Harrison	4863	2	204	---	206	1496	---	1357	118	76	126	1393	91	1441	777	897
Henry	3622	12	179	---	191	1507	---	1506	81	312	24	---	1	458	778	911
Hickory	570	5	---	---	5	75	---	51	439	---	---	---	---	158	23	44
Holt	11919	1	125	78	204	2786	---	4320	109	214	1995	1766	525	2829	2241	1680
Howard	4651	10	742	---	752	1252	---	970	---	562	---	1071	44	1316	767	855
Howell	1319	103	---	---	103	329	---	200	416	5	---	---	266	249	106	211
Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	2776	1800	---	---	1800	186	2	153	---	238	---	262	135	709	130	196
Jasper	34998	116	690	30671	31477	1508	---	1202	134	435	180	---	62	609	697	1026
Jefferson	323	233	---	---	233	37	---	25	---	26	---	---	2	55	16	26
Johnson	1848	31	51	63	145	453	---	554	50	78	59	494	15	557	313	284
Knox	6727	21	---	417	438	1952	---	1628	118	---	618	1937	36	2100	857	1245
Laclede	2941	24	9	---	33	1179	24	550	797	355	---	---	3	533	265	673
Lafayette	19114	26	1245	---	1271	5639	---	5036	---	737	1042	4782	607	5394	3086	3387
Lawrence	43466	---	---	39269	39269	1342	---	908	1718	---	28	---	201	800	422	793
Lewis	10713	1	478	30	509	2313	---	1402	---	53	5174	1230	32	2963	846	1396
Lincoln	5434	70	283	7	360	2313	---	1610	---	430	1	712	8	1118	858	1408

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2014

Counties	Total All Fertilizers	MIXED FERTILIZER				FERTILIZER MATERIALS								PLANT FOOD		
		Bagged	Bulk Dry	Liquid	Total Mixed Fert.	Potash	Phosphate	AMM Phos	Ammonium Nitrate	Urea	Nitrogen Solution	NH ₃	Misc. Material	Nitrogen	Avail P ₂ O ₅	Sol-uble K ₂ O
Adair	1774	23	---	---	23	565	---	581	590	---	5	---	10	307	272	353
Andrew	4339	41	---	---	41	867	---	1312	1575	27	---	517	---	1219	605	533
Atchison	25992	6	---	719	725	3072	5	3978	567	---	7012	3292	7341	5577	2296	1872
Audrain	9626	11	---	487	498	2908	---	3378	---	1520	402	672	248	1936	1685	1821
Barry	3679	---	---	---	---	1152	---	393	2114	---	---	20	---	805	180	681
Barton	10708	5	---	112	117	3401	---	2948	1783	1335	499	543	82	2366	1396	1825
Bates	2299	---	---	51	51	864	---	696	252	385	27	20	4	414	329	530
Benton	2366	22	---	---	22	721	---	525	372	664	---	36	26	563	244	450
Bollinger	1010	21	122	202	345	318	---	123	74	150	---	---	---	222	66	194
Boone	2687	411	---	51	462	615	3	805	467	154	---	162	19	579	424	423
Buchanan	3159	196	30	---	226	595	---	852	360	447	97	415	167	880	465	376
Butler	4958	18	189	---	207	1432	571	256	9	2162	---	---	321	1125	393	885
Caldwell	9355	2	---	---	2	4076	---	3226	1327	184	76	452	12	1486	1509	2462
Callaway	2336	9	---	25	34	587	---	746	828	75	4	60	2	502	346	371
Camden	126	118	---	---	118	---	---	---	---	---	---	---	8	17	7	20
Cape Girardeau	5340	432	252	4	688	1370	393	633	276	262	75	---	1643	504	511	865
Carroll	5487	25	---	25	50	1095	1	1725	---	613	205	1236	562	1783	829	678
Carter	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cass	6282	286	22	37	345	1618	76	1167	1294	70	1412	141	159	1304	633	1022
Cedar	2381	---	---	---	---	327	---	286	75	26	---	---	1667	88	131	196
Chariton	11744	---	348	310	658	2312	35	1015	680	604	4272	1470	698	3357	626	1580
Christian	997	126	145	---	271	357	---	224	104	1	---	---	40	90	119	222
Clark	14584	72	---	---	72	4070	---	2239	50	372	7017	764	---	3352	1130	2505
Clay	1216	758	204	170	1132	11	7	---	23	32	---	---	11	155	30	47
Clinton	9057	33	---	---	33	2030	---	1725	5008	---	---	211	50	2214	795	1256
Cole	2573	346	1	---	347	537	5	428	877	246	49	82	2	609	236	369
Cooper	6701	10	8	14	32	2533	27	2021	1586	104	---	348	50	1239	948	1570
Crawford	712	11	---	---	11	120	---	47	120	---	414	---	---	182	23	73
Dade	6214	307	2	17	326	1708	---	1796	1987	395	---	---	2	1232	863	1050
Dallas	2252	6	---	---	6	699	51	548	899	---	48	---	1	419	275	422
Davies	26740	12307	26	10926	23259	597	26	1000	1411	305	---	137	5	1021	847	404
DeKalb	5432	4	---	---	4	1377	100	947	2630	79	46	124	125	1267	483	842
Dent	1545	23	---	---	23	523	49	494	456	---	---	---	---	246	252	316
Douglas	103	2	---	---	2	24	---	26	51	---	---	---	---	21	12	14
Dunklin	8905	863	397	**	1220	2600	1503	456	625	872	775	---	854	1280	898	1860
Franklin	6415	589	163	---	752	2015	467	1461	846	608	---	249	17	1103	956	1340
Gasconade	2470	42	---	---	42	510	13	587	956	258	---	97	7	631	284	315
Gentry	4876	---	---	---	---	1181	---	1021	1271	---	726	677	---	1406	469	724
Greene	7279	2276	540	65	2881	1546	287	849	1456	35	---	---	225	1053	686	1080
Grundy	4046	25	---	3	28	894	---	1291	972	206	249	309	97	987	650	551
Harrison	3519	1	---	---	1	647	---	854	906	252	75	755	29	1178	441	391
Henry	5432	15	---	---	15	1446	53	1555	1469	893	---	---	1	1177	754	879
Hickory	1101	25	126	---	151	509	---	441	---	---	---	---	---	80	204	306
Holt	13492	1	---	---	1	2431	---	2908	1760	---	3835	1583	974	3393	1465	1483
Howard	2	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---
Howell	4066	21	820	---	841	1146	---	521	1407	1	---	---	150	865	258	699
Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	4771	2852	4	284	3140	96	23	---	---	215	---	---	1297	742	162	292
Jasper	5946	170	1325	153	1648	1342	1	1492	239	855	342	19	8	961	952	1187
Jefferson	443	279	---	---	279	54	35	24	---	37	---	---	14	90	36	60
Johnson	982	21	---	74	95	104	---	81	106	259	155	78	104	286	48	73
Knox	2193	---	52	49	101	978	---	721	78	26	---	289	---	388	372	611
Laclede	4301	27	---	---	27	436	202	792	2844	---	---	---	---	1112	459	263
Lafayette	16935	39	---	428	467	2584	---	3982	336	1452	5394	2164	556	4919	2194	1591
Lawrence	5325	---	---	---	---	1503	---	983	2683	155	---	---	1	1155	451	901
Lewis	6202	---	---	---	---	3058	387	733	1015	467	31	494	17	1098	519	1866
Lincoln	6072	82	9	---	91	3088	486	1080	381	532	99	309	6	862	737	1913

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 2013

Counties	Total All Fertilizers	MIXED FERTILIZER				FERTILIZER MATERIALS								PLANT FOOD		
		Bagged	Bulk Dry	Liquid	Total Mixed Fert.	Potash	Phosphate	AMM Phos	Ammonium Nitrate	Urea	Nitrogen Solution	NH ₃	Misc. Material	Nitrogen	Avail P ₂ O ₅	Sol-uble K ₂ O
Linn	3153	1	183	1	185	1220	---	728	80	59	1	850	30	873	435	744
Livingston	3881	21	209	---	230	1471	---	1064	77	106	506	371	56	734	605	901
McDonald	11251	3	---	11223	11226	---	---	---	---	---	25	---	---	26	87	3
Macon	26894	16	154	20627	20797	1010	---	1095	---	371	10	686	2925	988	616	612
Madison	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Maries	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marion	5314	85	350	185	620	1372	---	694	---	102	1806	680	40	1356	506	848
Mercer	1304	---	67	1	68	494	---	663	11	12	---	---	56	85	361	326
Miller	836	19	300	5	324	100	---	227	---	179	---	---	6	135	114	70
Mississippi	11508	2	1031	200	1233	4084	966	1431	41	620	889	---	2244	1127	1435	2515
Moniteau	1638	---	417	78	495	571	---	458	---	53	---	61	---	201	361	366
Monroe	4718	8	75	44	127	1484	---	1178	55	297	38	1066	473	1256	598	905
Montgomery	7752	7	26	96	129	3079	25	2705	---	456	223	903	232	1417	1390	1904
Morgan	1245	74	---	6	80	512	---	332	31	51	28	---	211	134	170	327
New Madrid	32629	25	156	938	1119	7826	3909	699	---	6285	11373	---	1418	6897	2454	4739
Newton	65209	17	---	26679	26696	423	---	410	659	106	278	21	36616	558	225	260
Nodaway	12842	42	1521	2	1565	3675	---	3614	338	216	---	3179	255	3468	2427	2234
Oregon	889	1	---	22	23	202	---	168	484	---	---	---	12	197	78	121
Osage	1564	4	---	24	28	436	24	609	105	361	---	---	1	312	294	273
Ozark	1109	---	---	---	---	306	---	255	248	---	---	---	300	193	117	185
Pemiscot	5706	1	104	874	979	930	119	526	---	2571	241	---	340	1425	314	595
Perry	4839	19	20	18	57	1640	231	1370	---	195	872	379	95	941	750	980
Pettis	6234	68	148	55	271	2159	---	2342	453	360	26	397	226	1057	1193	1340
Phelps	884	443	---	31	474	151	---	154	---	26	---	---	79	79	81	111
Pike	6980	1	310	107	418	1451	---	1293	---	467	1253	1325	773	2001	693	999
Platte	2320	106	28	---	134	900	---	921	---	34	---	303	28	409	470	550
Polk	1512	3	---	29	32	414	25	374	603	50	---	---	14	298	185	243
Pulaski	574	44	---	---	44	201	---	227	28	73	---	---	1	84	104	120
Putnam	4081	---	2514	---	2514	533	---	779	47	78	26	---	104	242	418	324
Ralls	3172	4	50	436	490	773	---	825	---	51	199	771	63	876	502	583
Randolph	4347	215	182	282	679	1557	---	1126	156	476	237	39	77	629	708	965
Ray	4137	7	149	15	171	844	---	963	655	260	239	402	603	894	561	514
Reynolds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ripley	205	---	10	6	16	12	2	---	---	167	1	---	7	78	2	9
St. Charles	11389	2386	24	145	2555	2490	---	2498	---	205	1915	1490	236	2578	1250	1576
St. Clair	2673	---	122	---	122	1046	---	1077	---	129	---	---	299	320	499	630
St. Francois	458	57	---	---	57	53	---	150	---	195	---	---	3	120	73	36
Ste. Genevieve	3129	70	149	---	219	1074	346	728	---	89	335	314	24	561	559	641
St. Louis	4140	3376	22	2	3400	41	1	3	---	147	1	8	539	613	124	232
Saline	17392	2	218	177	397	4685	---	5397	2	1211	**	5098	608	5364	2895	2963
Schuyler	497	1	34	---	35	174	---	102	---	91	41	52	2	118	62	105
Scotland	4552	5	821	**	808	1807	---	696	---	559	137	511	34	891	603	1115
Scott	20577	138	421	8974	9533	4860	45	2467	30	700	575	98	2269	1313	1314	2792
Shannon	747	---	75	---	75	375	---	200	74	---	---	---	23	69	100	233
Shelby	9584	1	**	**	**	3583	---	3439	310	372	173	1588	137	2086	1724	2192
Stoddard	17159	4	843	222	1069	5711	393	4189	99	2679	260	57	2702	2498	2289	3666
Stone	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sullivan	765	1	79	---	80	212	---	235	53	185	---	---	---	143	149	127
Taney	84	82	---	---	82	1	---	---	---	---	---	---	---	2	---	---
Texas	1349	---	65	---	65	278	---	519	436	---	---	---	51	242	241	155
Vernon	8909	---	997	310	1307	2827	---	2393	908	873	238	238	125	1525	1469	1739
Warren	5759	65	---	32	97	1263	**	2280	27	1236	52	20	790	1025	1061	780
Washington	366	---	---	---	---	147	49	122	---	48	---	---	---	44	78	88
Wayne	232	3	---	---	3	77	---	101	50	---	---	---	1	35	46	46
Webster	1241	141	23	---	164	172	---	77	401	---	1	---	426	183	40	122
Worth	1259	---	205	18	223	392	---	259	78	---	26	279	1	317	219	238
Wright	730	---	---	---	---	226	---	181	322	---	---	---	1	140	83	134

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2014

Counties	Total All Fertilizers	MIXED FERTILIZER				FERTILIZER MATERIALS								PLANT FOOD		
		Bagged	Bulk Dry	Liquid	Total Mixed Fert.	Potash	Phosphate	AMM Phos	Ammonium Nitrate	Urea	Nitrogen Solution	NH ₃	Misc. Material	Nitrogen	Avail P ₂ O ₅	Sol-uble K ₂ O
Linn	3967	9	---	---	9	918	154	1066	813	823	---	184	---	938	633	567
Livingston	3193	16	---	---	16	1613	57	411	317	8	95	675	1	769	216	989
McDonald	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Macon	7168	15	228	50	293	2323	---	2546	288	1136	25	496	61	1470	1333	1422
Madison	276	---	---	---	---	101	---	125	---	50	---	---	---	45	57	60
Maries	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marion	5296	7	---	---	7	2625	---	1341	327	211	491	266	27	773	666	1585
Mercer	20224	18926	246	---	19172	199	27	157	647	---	---	22	---	376	437	241
Miller	531	123	---	---	123	79	---	100	153	76	---	---	---	109	47	51
Mississippi	15411	---	104	168	272	4960	949	2546	74	995	4451	115	1049	2600	1668	2972
Moniteau	1750	11	---	1	12	423	53	500	400	296	24	41	1	404	256	264
Monroe	3979	4	31	---	35	1495	172	1222	706	32	1	299	17	696	670	908
Montgomery	7440	44	3	---	47	2323	---	2193	515	886	1157	242	77	1485	1089	1449
Morgan	2405	7	---	2	9	699	25	499	1063	21	---	---	88	474	238	434
New Madrid	10658	223	36	54	313	4562	556	1332	189	2324	242	---	1140	1696	894	2806
Newton	7075	89	---	---	89	736	24	298	1584	**	---	1790	2576	2057	148	441
Nodaway	16337	61	207	36	304	3053	---	3440	4064	479	2409	2506	82	4803	1860	1924
Oregon	1858	---	432	---	432	516	24	313	573	---	---	---	---	390	162	309
Osage	1236	14	---	50	64	234	78	470	128	212	50	---	---	244	257	152
Ozark	2247	2	---	---	2	680	---	512	1053	---	---	---	---	446	235	408
Pemiscot	3316	1	---	3	4	775	62	115	78	1872	61	---	349	986	75	464
Perry	4179	87	76	11	174	1877	169	670	598	324	78	280	9	759	398	1142
Pettis	6327	47	---	3	50	2208	---	1109	1509	135	1	180	1135	958	543	1375
Phelps	2433	1424	---	4	1428	329	---	199	452	---	---	---	25	384	143	270
Pike	24825	26	28	73	127	13979	---	4490	2392	356	754	2675	52	4219	2103	8418
Platte	2709	328	9	23	360	543	---	1098	602	1	20	83	2	545	519	363
Polk	3145	11	---	---	11	1461	---	1046	249	306	---	61	11	465	482	873
Pulaski	2926	4	---	---	4	763	---	591	1560	8	---	---	---	638	271	457
Putnam	2105	---	---	---	---	784	---	483	476	311	51	---	---	405	223	483
Ralls	6381	2	---	2226	2228	1699	51	937	177	150	978	161	---	854	876	1475
Randolph	2909	494	---	769	1263	504	---	166	537	---	434	---	5	474	177	554
Ray	10611	31	---	24	55	3135	1	2642	1661	609	1097	1238	173	2554	1386	1935
Reynolds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ripley	796	4	4	26	34	176	3	175	225	119	---	---	64	164	88	113
St. Charles	10737	1600	3306	2	4908	2030	209	1052	25	94	1858	501	60	1480	718	1394
St. Clair	3006	---	47	---	47	1004	26	1669	---	260	---	---	---	421	780	613
St. Francois	1437	110	---	2	112	374	125	333	---	493	---	---	---	292	216	231
Ste. Genevieve	3456	71	74	---	145	731	327	765	498	521	156	313	---	885	513	448
St. Louis	14550	5838	966	395	7199	6409	68	295	---	64	3	---	512	1024	550	4475
Saline	12984	9	2	70	81	2534	747	5842	76	1324	153	1675	552	2954	3192	1580
Schuyler	138	3	---	---	3	72	---	62	---	1	---	---	---	7	32	44
Scotland	2429	1	---	102	103	719	239	212	256	318	465	82	35	498	223	466
Scott	7321	48	94	---	142	3118	520	1572	323	412	32	29	1173	642	1006	1886
Shannon	3419	---	---	---	---	985	---	447	1749	178	---	60	---	805	205	594
Shelby	6191	360	309	55	724	1898	---	2200	705	331	79	121	133	961	1168	1383
Stoddard	11570	103	283	1	387	3440	1361	2551	289	3078	---	19	445	2125	1864	2121
Stone	1995	9	---	---	9	403	---	428	1155	---	---	---	---	471	197	251
Sullivan	1288	---	---	---	---	313	---	474	77	373	50	---	1	295	220	188
Taney	152	152	---	---	152	---	---	---	---	---	---	---	---	7	2	4
Texas	7803	---	100	---	100	1622	149	1538	3822	25	28	216	303	1797	826	967
Vernon	7831	22	---	56	78	2647	---	2657	1354	615	293	181	6	1461	1235	1601
Warren	1753	158	---	---	158	224	29	572	---	461	---	20	289	357	290	144
Washington	222	1	---	---	1	111	---	72	14	24	---	---	---	28	33	66
Wayne	372	---	---	---	---	124	25	100	123	---	---	---	---	59	56	74
Webster	2583	5	49	2	56	709	76	627	1106	---	---	---	9	488	324	387
Worth	2087	---	---	---	---	541	---	677	390	126	69	257	27	536	332	331
Wright	4197	31	---	1	32	999	1	1053	2083	26	---	---	3	913	489	609

** Credits exceeded shipments.

Fertilizer/Ag Lime Control Service
University of Missouri-Columbia
Columbia, MO 65211-8080

Change Service Requested

Available on the Web at:
<http://aes.missouri.edu/pfcs/fert/>

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