

UNIVERSITY OF MISSOURI-COLUMBIA
Agricultural Experiment Station

MISSOURI FERTILIZER TONNAGE REPORT, 1999-00

DRY MIXED FERTILIZERS

BAGGED FERTILIZER			BULK MANUFACTURED		
GRADES	FALL	SPRING	GRADES	FALL	SPRING
6-24-24	406	1,157	0-14-42	78	711
8-32-16	54	88	0-18-36	612	762
10-6-4	37	293	4-3-2	854	2,081
10-20-20	102	33	5-10-30	---	511
12-12-12	591	2,308	6-24-24	80	213
13-13-13	2,076	5,469	8-12-4	---	311
15-30-15	74	515	9-23-30	484	964
18-5-9	53	142	12-12-25	---	787
20-10-10	177	655	14-7-25	---	431
22-3-14	553	14	16-12-24	---	217
24-4-12	148	205	17-17-17	---	536
28-3-3	911	2,533	19-19-19	---	330
29-3-4	645	1,067	20-10-20	2	394
Misc.	11,061	31,145	Misc.	6,897	21,455
TOTAL	16,888	45,624	TOTAL	9,007	29,703

LIQUID MIXED FERTILIZERS

GRADES	FALL	SPRING
2-6-12	---	605
2-6-32	64	1,122
3-9-27	802	4,339
3-10-30	629	2,313
3-18-18	300	1,669
4-10-10	80	269
4-12-24	366	2,158
5-15-15	---	244
6-24-6	---	583
8-24-0	165	695
9-18-9	41	284
10-20-10	18	826
10-30-0	313	2,677
10-34-0	753	4,575
10.6-36-0	255	724
11-33-0	29	434
11-37-0	25	1,247
12-3-7	---	533
17-2-5	151	775
20-4-4	---	384
Misc.	775	3,782
TOTAL	4,766	30,238

FERTILIZER MATERIALS

<u>NITROGEN MATERIALS</u>	<u>FALL</u>	<u>SPRING</u>
Ammonium Sulfate	5,757*	16,195*
Amm. Thiosulfate	1,271	5,935
N. Solutions (26-32%)	39,741	225,987
Ammonium Nitrate	88,163*	205,662*
Urea	45,099*	131,151*
Anhydrous Ammonia	38,262	108,501
Other	9,657	29,695
TOTAL	227,950	723,126

<u>PHOSPHATIC MATERIALS</u>		
Conc. Superphosphate	13,009*	15,164*
Phosphoric Acid	752	969
Rock Phosphate	26	174
Other	266	72
TOTAL	14,053	16,379

<u>POTASH MATERIALS</u>		
Muriate of Potash	147,285	250,098
Other	1,401	4,033
TOTAL	148,686	254,131

<u>MISC. MATERIALS</u>		
Organics	4,038	7,819
Other	532	2,689
TOTAL	4,570	10,508
TOTAL MATERIALS	395,259	1,004,144

* Includes tonnage reported as materials but blended prior to application.

**DRY MIXED FERTILIZERS
AMMONIUM PHOSPHATES**

	BAGGED FERTILIZER		BULK MANUFACTURED	
	FALL	SPRING	FALL	SPRING
11-52-0	8	8	27,092*	34,142*
18-46-0	---	3	88,522*	176,645*
TOTAL	8	11	115,614	210,787

	<u>FALL</u>	<u>SPRING</u>
TOTAL MIXED FERTILIZER	146,283	316,363
TOTAL ALL FERTILIZER	541,542	1,320,507

GRAND TOTAL 1,862,049

PRINCIPAL BLENDING MATERIALS
(Approximate Tons Used in Blends)

	<u>FALL</u>	<u>SPRING</u>
Ammonium Nitrate	70,530	164,530
Urea	36,079	104,921
Ammonium Phosphates	92,491	168,630
Concentrated Phosphates	10,407	12,131
Muriate of Potash	117,828	200,078

RECENT FERTILIZER SALES TRENDS IN MISSOURI

% OF TOTAL SALES

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
BAGGED FERTILIZERS								
Mixtures	2.8	2.9	2.8	3.1	3.7	3.1	3.5	3.5
Materials	.8	0.7	0.9	0.7	1.2	0.9	0.9	0.6
TOTALS	<u>3.6</u>	<u>3.6</u>	<u>3.7</u>	<u>3.8</u>	<u>4.9</u>	<u>4.0</u>	<u>4.4</u>	<u>4.1</u>
BULK DRY FERTILIZERS								
Blends	55.6	54.4	57.0	47.9	50.2	56.4	53.4	54.4
Mfg'd. Mixtures	1.5	1.6	1.8	9.2	8.2	1.9	2.5	2.1
Dir. Appl. Material	13.8	13.6	14.3	12.0	12.5	14.0	13.3	13.6
TOTALS	<u>70.9</u>	<u>69.6</u>	<u>73.1</u>	<u>69.1</u>	<u>70.9</u>	<u>72.3</u>	<u>69.2</u>	<u>70.1</u>
LIQUID FERTILIZERS								
Mixtures	3.4	3.4	2.3	2.7	3.1	3.0	2.3	2.0
Nitrogen Solutions	17.8	17.1	16.0	16.8	14.4	14.8	16.2	15.9
Anhydrous Ammonia	4.3	6.3	4.9	7.6	6.7	5.9	7.9	7.9
TOTALS	<u>25.5</u>	<u>26.8</u>	<u>23.2</u>	<u>27.1</u>	<u>24.2</u>	<u>23.7</u>	<u>26.4</u>	<u>25.8</u>
TOTAL TONS	1,756,568	1,693,173	1,570,582	1,702,234	1,846,233	1,819,839	1,737,264	1,862,049

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 1999

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	Soluble K ₂ O
Adair	1503	7	---	---	7	981	---	259	219	26	---	---	11	135	121	608
Andrew	3351	1	---	1	2	602	---	784	1463	202	---	244	54	940	364	369
Atchison	10418	---	26	558	584	1914	52	2540	583	---	2517	1913	315	2885	1527	1159
Audrain	16226	5	---	1	6	6531	---	5603	---	1165	381	1946	594	3127	2830	4043
Barry	3386	10	---	---	10	684	---	513	2159	---	---	20	---	844	237	413
Barton	13416	2	---	292	294	4775	---	4353	1532	1768	252	423	19	2544	2097	2805
Bates	7858	---	3	25	28	3224	---	2516	682	560	252	581	15	1497	1163	1953
Benton	2945	---	24	---	24	907	78	900	227	701	26	82	---	638	454	545
Bollinger	373	---	---	---	---	97	---	102	74	100	---	---	---	89	46	58
Boone	6457	161	11	218	390	2395	27	1890	180	668	**	666	255	1279	1026	1557
Buchanan	5881	212	23	108	343	722	---	802	717	333	1047	1635	282	2261	456	508
Butler	7829	1	268	---	269	1508	275	1170	84	4369	51	20	83	2292	687	917
Caldwell	3986	---	---	**	**	1044	143	1060	1576	80	---	83	2	824	558	628
Callaway	3353	61	82	---	143	1172	---	1071	880	---	50	---	37	532	514	750
Camden	22	---	---	8	8	---	---	---	---	---	---	---	14	2	1	1
Cape Girardeau	13641	124	200	7	331	1834	433	692	812	514	94	124	8807	1248	583	1183
Carroll	5525	22	---	74	96	2095	78	2249	100	496	17	370	24	984	1096	1283
Carter	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cass	5782	163	---	---	163	1764	53	1253	973	78	990	179	329	1117	663	1119
Cedar	3432	28	---	---	28	1115	52	1051	1069	53	---	---	64	601	513	667
Chariton	7390	2	307	511	820	1957	---	1719	38	232	419	1862	343	2113	993	1385
Christian	1410	78	5	---	83	329	112	323	379	---	---	---	184	209	227	209
Clark	6284	---	---	24	24	2142	**	1771	77	403	625	1181	62	1659	857	1306
Clay	889	117	5	20	142	34	2	---	45	512	---	---	154	308	26	44
Clinton	7257	33	13	---	46	975	7	1360	3848	---	39	981	1	2363	641	596
Cole	2759	213	69	---	282	576	2	715	445	500	76	59	104	637	385	388
Cooper	7897	---	---	24	24	2418	---	2415	1723	660	80	554	23	1794	1126	1495
Crawford	252	8	---	---	8	74	---	47	122	---	---	---	1	51	22	45
Dade	7186	---	---	---	---	2681	---	1661	2421	400	---	---	23	1309	767	1601
Dallas	1215	31	---	1	32	156	---	306	719	---	---	---	2	300	144	103
Daviness	2655	---	23	---	23	609	184	457	1117	---	100	160	5	622	295	366
DeKalb	5372	---	---	---	---	866	81	1320	2392	27	250	436	---	1490	644	527
Dent	1170	27	---	---	27	525	24	196	395	---	---	---	3	172	105	319
Douglas	148	---	---	---	---	47	---	25	76	---	---	---	---	30	11	28
Dunklin	9089	12	388	**	398	1803	1523	429	133	1399	1248	40	2116	1661	926	1170
Franklin	3417	212	1	---	213	1453	128	863	123	366	---	144	127	534	490	937
Gasconade	1732	22	20	---	42	572	---	571	195	274	---	1	77	309	267	356
Gentry	5743	4	---	---	4	1089	103	1189	2210	---	809	264	75	1367	633	661
Greene	6492	483	228	100	811	1117	108	784	1243	204	5	---	2220	1067	652	871
Grundy	3546	22	---	---	22	1048	---	1092	676	287	---	398	23	842	556	643
Harrison	1782	---	---	---	---	373	36	441	445	1	---	440	46	594	223	223
Henry	8107	36	574	---	610	2264	48	2202	2016	862	25	53	27	1543	1069	1383
Hickory	1814	1	224	---	225	415	---	53	998	---	---	---	123	377	26	251
Holt	10502	---	13	---	13	1448	---	1921	1489	---	3915	1716	---	3260	969	891
Howard	3722	---	---	---	---	856	---	1087	422	---	408	897	52	1149	547	513
Howell	4118	---	22	---	22	929	---	712	2453	---	---	---	2	962	328	564
Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	5478	541	19	19	579	36	24	130	---	195	---	19	4495	1259	326	362
Jasper	4225	44	576	---	620	949	---	890	286	954	203	162	161	945	529	751
Jefferson	281	23	15	---	38	6	24	---	---	6	---	---	207	59	26	30
Johnson	4404	13	---	47	60	1128	---	915	1269	230	643	138	21	1001	459	706
Knox	4513	---	142	---	142	1100	627	559	1025	---	---	1059	1	1319	574	708
Laclede	8344	27	---	---	27	2422	256	1578	4041	---	---	---	20	1661	846	1404
Lafayette	21782	24	---	163	187	5177	---	4900	384	1527	5238	3627	742	6241	2493	3174
Lawrence	5148	---	---	---	---	2011	87	978	2067	---	---	---	5	878	489	1197
Lewis	7568	1	25	---	26	2839	772	1719	340	604	39	1226	3	1697	1178	1752
Lincoln	8294	58	75	26	159	3267	531	1834	139	801	198	1297	68	1877	1169	1989

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2000

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	Soluble K ₂ O
Adair	3306	99	---	50	149	669	---	977	1042	183	173	102	11	766	462	434
Andrew	6026	191	53	---	244	1295	---	1228	1626	287	---	1310	36	2023	593	818
Atchison	21477	61	129	947	1137	2395	---	3453	1649	**	7222	5062	570	7535	2099	1498
Audrain	20380	139	---	330	469	4619	---	4564	52	3404	1813	4439	1020	6621	2412	2873
Barry	5136	95	62	---	157	1339	33	849	2729	---	---	22	7	1107	414	808
Barton	22378	45	101	590	736	5601	---	4307	2990	3173	2924	1729	918	5847	2197	3344
Bates	21571	62	19	73	154	4690	---	5246	4888	3137	938	2475	43	6371	2453	2832
Benton	4232	149	---	72	221	1161	77	1113	53	1027	---	344	236	1034	588	702
Bollinger	2586	24	---	6	30	772	---	916	671	197	---	---	---	486	425	467
Boone	7287	1154	5	49	1208	1403	3	1079	78	634	812	1956	114	2455	622	928
Buchanan	11834	665	100	860	1625	1200	---	951	463	451	1918	3529	1697	4143	687	870
Butler	23480	153	981	---	1134	6981	2392	1723	7	8214	1751	---	1278	4979	2000	4340
Caldwell	10222	15	---	3	18	2301	248	2129	2408	819	713	1581	5	3062	1123	1388
Callaway	6440	155	126	509	790	1429	9	1337	1923	383	270	248	51	1413	746	1009
Camden	185	155	---	---	155	---	---	---	---	---	---	---	30	5	4	4
Cape Girardeau	35206	1459	1012	531	3002	4312	570	2363	4157	1065	4787	1855	13095	6466	1745	2964
Carroll	9103	23	---	277	300	1140	---	933	20	1672	1298	3691	49	4396	515	694
Carter	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cass	15964	433	91	160	684	2624	107	3292	4609	768	2508	1125	247	4277	1711	1629
Cedar	10276	123	5	3	131	3094	26	2738	3783	498	---	---	6	2021	1288	1844
Chariton	30264	238	685	2079	3002	5594	74	3597	991	3134	8611	4351	910	8989	2225	4052
Christian	6090	419	153	---	572	1587	77	1314	2359	---	---	---	181	1085	697	977
Clark	14957	25	39	768	832	3975	**	1309	453	318	5364	2689	72	4450	730	2534
Clay	2042	973	29	270	1272	---	4	---	---	718	---	---	48	561	66	82
Clinton	7811	94	---	47	141	1540	---	1959	1644	---	273	757	1497	1636	918	954
Cole	9344	724	179	1	904	1944	56	1964	1394	2098	202	745	37	2552	1001	1258
Cooper	16787	41	---	28	69	3156	10	3449	2127	2910	2746	2089	231	5284	1608	1942
Crawford	2780	55	2	---	57	811	---	820	818	269	---	---	5	553	381	490
Dade	18364	169	52	---	221	4870	---	3403	8945	596	---	103	226	4090	1605	2744
Dallas	5854	229	22	---	251	1546	104	1508	2412	---	25	---	8	1115	752	970
Daviness	3692	97	6	9	112	752	164	738	1082	224	82	533	5	1066	431	474
DeKalb	12033	---	---	13	13	1014	26	773	567	52	574	776	8238	1235	369	620
Dent	3491	133	---	---	133	987	51	1243	1053	---	---	---	24	595	608	605
Douglas	1307	39	---	---	39	322	---	309	637	---	---	---	---	273	143	194
Dunklin	57248	161	5068	698	5927	9043	1271	2600	6708	6061	22308	90	3240	13519	2655	7153
Franklin	15972	1026	336	28	1390	3476	233	3287	1823	4200	---	1319	244	4373	1762	2233
Gasconade	13429	206	8	---	214	3488	185	2820	3249	3097	52	280	44	3294	1412	2133
Gentry	9938	57	---	---	57	1717	---	1428	2718	---	3268	703	47	2667	677	1064
Greene	19925	5804	1103	136	7043	3864	312	2663	4996	311	---	---	736	3394	1740	2720
Grundy	5703	25	11	52	88	1096	---	1074	1001	194	864	1347	39	1993	531	664
Harrison	9051	185	274	131	590	1552	34	1730	1174	255	1155	2470	91	3211	947	1027
Henry	12668	88	959	15	1062	3060	52	3425	3558	806	62	377	266	2592	1708	1889
Hickory	2352	3	269	---	272	361	---	618	454	---	---	---	647	404	287	219
Holt	10755	---	45	813	858	931	---	1250	893	---	2743	3797	283	4419	798	680
Howard	5640	---	---	25	25	969	---	861	1331	276	810	1337	31	2055	430	580
Howell	21067	206	---	4	210	5444	200	6314	8615	2	---	---	282	4083	3012	3312
Iron	4	4	---	---	4	---	---	---	---	---	---	---	---	1	---	---
Jackson	9440	8213	149	182	8544	146	32	7	103	53	---	65	490	1446	481	542
Jasper	12507	655	1419	91	2165	2370	50	1953	1882	1556	1573	476	482	2852	1256	1793
Jefferson	2653	953	25	---	978	434	36	631	537	2	---	---	35	374	338	294
Johnson	10581	208	26	508	742	1676	---	1878	1467	1745	1737	1011	325	3057	1009	1122
Knox	4003	31	79	33	143	1469	208	547	905	---	12	714	5	988	381	904
Laclede	14077	257	100	---	357	3340	526	3871	5975	---	---	---	8	2774	2058	2037
Lafayette	23737	209	90	185	484	3893	3	3945	2150	2712	4218	5477	855	8343	2084	2388
Lawrence	8631	72	---	1	73	2036	76	1626	4816	---	---	---	4	1933	786	1154
Lewis	14399	12	208	83	303	4151	844	1946	2285	331	347	4030	162	4696	1390	2603
Lincoln	13693	224	36	52	312	3653	617	2274	1149	2594	1861	1177	56	3595	1376	2159

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 1999

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	Soluble K ₂ O
Linn	5242	1	---	---	1	2039	64	1378	826	673	---	223	38	961	750	1249
Livingston	4611	1	549	---	550	1515	190	825	1030	334	47	120	---	786	484	933
McDonald	91	6	---	---	6	23	---	23	---	39	---	---	---	22	11	14
Macon	5081	16	120	---	136	2010	144	1531	186	409	---	611	54	1010	835	1278
Madison	2	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---
Maries	167	---	---	---	---	69	---	48	50	---	---	---	---	25	22	41
Marion	5340	1	---	4	5	2389	98	1512	249	228	355	494	10	958	760	1440
Mercer	941	---	---	---	---	153	50	87	651	---	---	---	---	236	63	91
Miller	466	---	---	---	---	50	---	175	100	125	---	---	16	125	83	32
Mississippi	15432	---	25	---	25	5326	1847	2411	181	1350	3175	---	1117	2277	1958	3188
Moniteau	3114	---	---	---	---	1000	---	1000	176	810	---	127	1	716	460	619
Monroe	4405	---	72	72	144	1397	241	1064	501	26	5	1016	11	1184	652	879
Montgomery	7248	59	95	---	154	2795	100	2391	---	789	512	415	92	1253	1206	1724
Morgan	1599	6	---	---	6	383	---	522	250	437	---	---	1	377	245	238
New Madrid	7752	1	498	199	698	1392	157	579	67	2154	2269	---	436	1959	409	946
Newton	6812	23	---	25	48	2419	30	1933	2069	132	---	175	6	1260	908	1404
Nodaway	16624	5	25	1	31	3124	52	2330	2780	26	5376	2841	64	5159	1150	1882
Oregon	1940	---	---	---	---	283	---	422	1231	4	---	---	---	496	193	169
Osage	3746	60	---	34	94	1115	77	563	1557	293	**	62	1	822	306	701
Ozark	1055	---	---	---	---	200	---	25	581	---	195	---	54	260	13	110
Pemiscot	4225	---	1303	9	1312	241	64	22	41	1449	824	19	253	1057	240	625
Perry	5361	41	---	20	61	1781	327	1241	921	396	67	467	100	1134	730	1042
Pettis	8615	15	---	---	15	2104	---	2749	2688	338	175	249	297	1805	1334	1307
Phelps	1290	17	---	---	17	400	24	297	526	---	---	---	26	234	150	242
Pike	5650	4	664	---	668	2012	179	1350	229	308	162	392	350	893	841	1226
Platte	5228	9	6	---	15	1102	6	1429	1595	17	---	936	128	1574	672	688
Polk	4442	36	---	1	37	1091	---	428	2782	37	---	---	67	1054	205	662
Pulaski	1701	1	---	---	1	364	---	423	909	---	---	---	4	385	194	219
Putnam	2154	---	---	---	---	646	53	551	93	459	352	---	---	451	277	396
Ralls	4649	---	53	1026	1079	1383	163	828	47	206	825	118	---	678	649	1062
Randolph	1955	---	---	270	270	666	5	511	423	2	---	---	78	246	284	485
Ray	3809	---	1	16	17	921	---	1142	655	78	564	388	44	944	533	572
Reynolds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ripley	954	23	25	48	96	148	26	150	244	224	---	---	66	220	97	108
St. Charles	6610	213	342	---	555	1277	472	779	289	411	1575	649	603	1548	739	958
St. Clair	2311	---	---	---	---	259	28	329	1554	126	---	---	15	649	164	164
St. Francois	1977	43	22	---	65	643	128	535	---	522	---	---	84	358	312	393
Ste. Genevieve	3197	29	10	---	39	864	158	703	648	575	105	78	27	715	403	525
St. Louis	7230	1178	14	147	1339	1754	36	74	31	44	49	31	3872	911	421	1537
Saline	15190	1	---	70	71	4410	678	4418	766	940	1360	1679	868	3229	2508	2702
Schuyler	236	---	---	---	---	101	---	128	---	---	---	7	---	28	59	62
Scotland	3619	2	24	460	486	1061	343	332	234	54	684	386	39	716	356	771
Scott	7707	7	1460	25	1492	2960	480	483	623	1105	273	98	193	1073	680	2265
Shannon	1403	---	---	---	---	618	---	588	197	---	---	---	---	172	270	370
Shelby	6103	---	562	108	670	1944	62	1934	324	391	127	620	31	1194	1116	1357
Stoddard	20098	12	---	---	12	6558	1475	3339	62	6831	286	338	1197	4341	2216	3936
Stone	1777	3	---	---	3	200	---	420	1153	---	---	---	1	468	193	124
Sullivan	1275	---	---	---	---	284	131	421	**	365	75	---	---	263	253	170
Taney	62	13	---	---	13	---	---	---	---	---	---	---	49	7	9	11
Texas	4062	---	25	---	25	977	102	414	2428	---	---	---	116	919	238	557
Vernon	6605	3	---	---	3	2104	96	2509	854	369	154	507	9	1370	1157	1262
Warren	1157	12	2	---	14	360	44	278	---	431	---	---	30	252	153	220
Washington	288	---	---	---	---	123	---	100	---	25	---	---	40	34	50	79
Wayne	594	---	---	---	---	124	24	176	249	1	15	---	5	121	91	74
Webster	2474	46	3	7	56	607	25	300	1442	9	---	---	35	559	161	364
Worth	1743	---	---	---	---	128	---	387	833	---	175	220	---	582	178	76
Wright	6773	154	---	---	154	1738	9	1076	3758	---	---	---	38	1491	519	1062

** Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2000

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	Soluble K ₂ O
Linn	7022	109	36	35	180	1740	174	1654	831	1170	353	890	30	1935	910	1075
Livingston	6290	76	286	67	429	1538	185	1185	1224	405	668	541	115	1517	684	948
McDonald	459	16	11	---	27	90	---	52	88	199	3	---	---	136	27	57
Macon	9147	99	12	229	340	2003	18	2300	855	2179	872	336	244	2236	1186	1285
Madison	1990	8	---	1	9	678	51	700	---	476	76	---	---	369	345	406
Maries	3626	---	---	---	---	966	86	1049	1448	51	---	---	26	709	522	579
Marion	14228	80	14	721	815	3598	123	1916	1864	239	3033	2398	242	3987	1189	2248
Mercer	2960	45	161	---	206	795	150	623	968	---	---	217	1	649	386	528
Miller	7131	110	---	---	110	1870	---	1650	1539	1954	---	---	8	1728	766	1166
Mississippi	72193	6	279	1702	1987	6112	650	2304	1300	3820	50955	1686	3379	20850	1909	3539
Moniteau	4508	57	4	280	341	973	---	952	228	1136	290	548	40	1335	504	642
Monroe	16062	93	416	904	1413	3369	534	3062	3826	174	801	2714	169	4448	1955	2335
Montgomery	13552	72	90	119	281	2564	---	3118	576	2471	1840	2551	151	4496	1574	1589
Morgan	10024	161	147	432	740	2352	50	2451	1569	2491	84	---	287	2292	1245	1522
New Madrid	43102	13	4577	1023	5613	6051	245	2751	1359	7011	15889	1218	2965	11228	1887	5074
Newton	6451	88	---	61	149	1605	40	1128	3034	41	319	---	135	1390	553	918
Nodaway	17797	15	---	148	163	2705	132	4492	2734	1567	3775	2030	199	5164	2285	1639
Oregon	10542	22	---	---	22	2600	101	3060	4708	---	26	---	25	2164	1454	1571
Osage	10287	227	3	236	466	2022	158	2077	2940	1598	483	514	29	2719	1080	1310
Ozark	7237	21	187	---	208	1812	---	1927	2530	170	---	---	590	1423	888	1088
Pemiscot	22354	43	2670	331	3044	1424	159	**	376	3982	11948	**	1442	6512	440	1563
Perry	14257	694	32	87	813	2534	388	2480	2719	1400	1813	2082	28	4328	1345	1548
Pettis	14033	438	25	310	773	3482	---	3055	3272	1081	576	1632	162	3697	1537	2197
Phelps	2218	247	7	---	254	722	52	545	603	---	---	---	42	326	289	419
Pike	11324	67	24	312	403	1891	50	1797	2461	822	1984	1604	312	3518	970	1160
Platte	4088	79	3	25	107	740	---	867	1334	12	---	1027	1	1472	416	451
Polk	9961	149	---	---	149	3283	---	3516	1806	1075	---	20	112	1791	1626	1977
Pulaski	8823	121	---	---	121	1977	16	2832	3862	5	---	---	10	1819	1313	1188
Putnam	6278	13	---	398	411	1511	52	1236	1508	335	1097	27	101	1286	660	1009
Ralls	9392	---	---	2553	2553	1299	280	1276	466	607	1931	938	42	2131	1192	1336
Randolph	8030	1141	11	1516	2668	1196	---	1039	1558	262	1274	---	33	1440	814	1155
Ray	11350	57	---	175	232	1876	5	1487	1541	979	1795	3151	284	4366	775	1147
Reynolds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ripley	5325	29	474	24	527	1049	221	1471	469	845	69	---	674	960	870	716
St. Charles	14100	2523	93	707	3323	1009	55	757	472	458	6118	1684	224	4242	807	845
St. Clair	5584	11	25	6	42	1632	---	2122	946	818	7	---	17	1083	978	998
St. Francois	3518	258	---	6	264	887	25	1122	13	921	---	---	286	705	554	553
Ste. Genevieve	5882	176	---	35	211	1213	125	1022	467	1225	1093	508	18	1697	566	757
St. Louis	15084	11582	98	586	12266	838	26	18	7	82	4	1327	516	2855	606	1094
Saline	14430	57	92	455	604	2366	**	2208	252	2055	2813	3714	442	5318	1200	1551
Schuyler	1519	13	65	67	145	394	---	289	---	335	201	153	2	405	146	258
Scotland	7825	37	641	2422	3100	898	236	736	748	342	864	718	183	1601	836	1298
Scott	28912	609	4724	785	6118	3792	574	1591	645	904	13203	842	1243	6689	1752	3363
Shannon	1617	---	---	54	54	149	49	150	1166	---	---	---	49	434	109	89
Shelby	13667	21	185	1501	1707	3841	245	2596	1996	979	912	1142	249	2945	1600	2702
Stoddard	58049	109	325	800	1234	11652	1441	7110	504	18414	10805	3027	3862	16666	4162	7184
Stone	1389	27	---	---	27	497	---	297	278	---	---	290	---	389	140	311
Sullivan	4157	11	---	25	36	1152	25	1182	654	573	395	140	---	932	560	706
Taney	265	257	---	---	257	---	---	---	---	---	---	---	8	13	6	7
Texas	15630	23	22	2	47	4619	159	4555	5667	365	---	---	218	2945	2163	2703
Vernon	19701	79	---	309	388	4870	12	4983	3761	2846	930	1885	26	5352	2333	2938
Warren	3189	118	1	73	192	527	92	706	82	852	370	306	62	938	388	337
Washington	3115	69	47	---	116	899	---	1220	---	854	---	---	26	624	566	547
Wayne	2579	33	125	---	158	777	49	942	546	---	---	81	26	450	481	491
Webster	12716	234	332	3	569	3412	553	2169	4922	5	---	---	1086	2331	1316	2046
Worth	1949	---	---	---	---	611	26	312	154	149	304	392	1	583	155	370
Wright	24214	38	---	---	38	6375	137	6344	11318	---	---	---	2	4991	2982	3890

** Credits exceeded shipments.