

# UNIVERSITY OF MISSOURI-COLUMBIA

## Agricultural Experiment Station

### MISSOURI FERTILIZER TONNAGE REPORT, 2001

FERTILIZER MATERIALS			DRY MIXED FERTILIZERS						LIQUID MIXED FERTILIZERS		
<u>NITROGEN MATERIALS</u>	<u>SPRING</u>	<u>FALL</u>							<u>SPRING</u>	<u>FALL</u>	
Ammonium Sulfate	16,999*	4,103*							<u>TOTAL MIXED FERTILIZER</u>		
Amm. Thiosulfate	6,223*	1,639*							317,201	183,043	
N. Solutions (26-32%)	201,807*	40,567*							<u>TOTAL ALL FERTILIZERS</u>		
Ammonium Nitrate	176,422*	96,244*							1,271,109	664,073	
Urea	149,928*	52,893*									
Anhydrous Ammonia	80,001	59,796									
Other	49,851	31,000									
TOTAL	<u>681,231</u>	<u>286,242</u>							<u>GRAND TOTAL</u>		
									<u>1,935,182</u>		
			<u>BAGGED FERTILIZER</u>			<u>BULK MANUFACTURED</u>					
			<u>GRADES</u>	<u>SPRING</u>	<u>FALL</u>	<u>GRADES</u>	<u>SPRING</u>	<u>FALL</u>			
			5-5-20	147	16	0-14-42	163	5			
			6-24-24	818	302	0-18-36	467	54			
			10-6-4	391	---	4-3-2	2,952	656			
			10-18-22	126	126	5-20-20	460	---			
<u>PHOSPHATIC MATERIALS</u>			12-12-12	1,574	404	6-18-36	164	225			
Conc. Superphosphate	14,310	12,515*	13-13-13	4,484	1,591	6-24-24	129	6			
Phosphoric Acid	630*	883*	15-30-15	328	46	7-18-36	64	24			
Rock Phosphate	297	73	17-2-5	542	---	9-23-30	723	829			
Other	382	253	20-10-10	597	165	15-14-25	320	---			
TOTAL	<u>15,619</u>	<u>13,724</u>	22-3-14	-2	595	17-8-19	293	---	<u>GRADES</u>	<u>SPRING</u>	<u>FALL</u>
			24-4-12	306	282	18-17-13	173	---	2-6-12	265	25
<u>POTASH MATERIALS</u>			28-3-3	2,143	47	19-19-19	814	30	2-6-32	1,206	17
Muriate of Potash	240,441*	174,146*	29-3-4	1,032	118	25-10-10	426	---	3-9-27	2,952	2,335
Other	3,536	1,339	Misc.	34,211	12,074	Misc.	22,607	7,303	3-10-30	2,078	970
TOTAL	<u>243,977</u>	<u>175,485</u>	TOTAL	<u>46,697</u>	<u>15,766</u>	TOTAL	<u>29,755</u>	<u>9,132</u>	3-18-18	1,161	336
			<u>AMMONIUM PHOSPHATES</u>						4-10-10	156	6
<u>MISC. MATERIALS</u>									4-12-24	1,729	437
Organics	11,907	4,716							5-15-15	272	58
Other	1,174	863							6-24-6	804	92
TOTAL	<u>13,081</u>	<u>5,579</u>							8-24-0	570	218
									9-18-9	443	59
<u>TOTAL MATERIALS</u>									10-20-10	452	75
	<u>953,908</u>	<u>481,030</u>							10-30-0	3,270	566
									10-34-0	4,457	633

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

10.6-36-0	1,277	781
11-33-0	483	---
11-37-0	288	87
17-2-5	904	---
18-1-2	198	431
20-4-4	75	25
Misc.	8,027	890
TOTAL	<u>31,067</u>	<u>8,041</u>

PRINCIPAL BLENDING MATERIALS  
(Approximate Tons Used in Blends)

	<u>SPRING</u>	<u>FALL</u>
Ammonium Nitrate	141,138	76,995
Urea	119,942	42,314
Amm Phosphates	167,717	120,042
Conc. Phosphates	11,448	10,012
Muriate of Potash	192,353	139,317

FERTILIZER AND PLANT FOOD TONNAGES SHIPPED FOR USE IN MISSOURI SINCE 1949

YEAR	TOTAL TONS OF PLANT FOODS				MIXED FERTILIZERS		FERTILIZER MATERIALS			
	TOTAL TONS		AVAIL.		TOTAL	AVERAGE	TONS	TONS	TONS	ROCK
	FERTILIZER	NITROGEN	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	TONS	%N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	PHOSPHATE
1949	364,677	13,426	42,472	18,895	248,000	3.3-12.8-7.1	5,341	10,802	1,337	57,468
1950	482,123	21,865	52,641	26,047	240,497	3.8-13.9-8.2	10,826	12,175	2,255	116,451
1951	647,393	30,988	61,989	38,371	390,292	4.3-14.1-8.9	14,049	6,919	3,479	182,324
1952	847,284	48,478	75,344	52,590	468,347	5.3-14.8-9.4	23,656	6,263	8,565	276,459
1953	763,276	57,681	72,427	55,483	458,042	6.4-14.9-10.2	28,376	4,270	8,944	200,436
1954	771,375	76,960	81,136	68,070	517,244	7.3-14.4-10.8	39,185	6,529	12,232	121,748
1955	771,556	66,771	70,223	61,379	449,871	7.9-14.2-11.2	31,339	6,398	11,019	212,415
1956	785,949	74,337	71,302	65,953	454,525	8.3-14.1-11.9	36,357	7,040	11,972	205,080
1957	801,210	90,845	67,419	63,418	413,044	9.0-14.1-11.8	53,589	9,331	14,560	208,779
1958	790,651	83,403	64,886	60,553	432,811	9.7-13.5-11.9	41,534	6,599	9,173	226,810
1959	840,762	110,045	84,860	75,671	525,322	10.1-14.4-12.2	57,269	9,458	11,380	144,926
1960	858,993	116,626	81,787	74,320	510,655	10.5-14.5-12.5	63,155	7,706	10,433	168,269
1961	824,086	118,992	76,645	67,826	465,360	10.7-15.0-12.4	69,149	6,775	9,995	162,546
1962	927,512	134,505	87,432	81,429	531,664	11.0-15.3-13.0	76,131	5,960	12,166	183,136
1963	1,057,377	172,048	102,301	95,666	605,032	11.0-16.0-13.6	105,289	5,281	13,384	188,523
1964	1,109,851	192,993	110,695	106,039	644,205	11.2-16.3-14.3	120,635	5,519	14,110	170,701
1965	1,119,007	191,265	115,139	113,293	679,252	11.6-16.3-14.7	112,365	4,713	13,319	175,450
1966	1,293,765	219,469	144,626	148,119	863,998	11.4-16.4-15.7	121,452	3,097	12,240	155,584
1967	1,291,027	229,128	145,686	151,197	868,919	11.5-16.5-16.1	129,224	2,128	11,774	126,054
1968	1,413,598	274,666	156,926	173,981	936,435	11.1-16.4-16.8	170,734	3,300	16,313	114,243
1969	1,398,379	260,823	162,781	190,343	988,138	11.2-16.2-17.6	150,290	2,997	16,577	82,703
1970	1,421,905	298,898	161,917	183,134	975,686	11.8-16.3-17.4	183,682	3,255	13,080	70,099
1971	1,558,585	336,784	188,894	212,105	1,333,416	12.4-16.4-17.4	196,420	2,882	15,250	35,192
1972	1,577,781	336,809	199,975	216,779	1,195,529	13.6-16.5-17.1	174,833	2,701	12,972	19,410
1973	1,586,053	326,260	187,595	236,136	1,265,147	14.1-14.7-17.8	148,206	1,564	10,764	4,493
1974	1,551,057	335,128	181,124	225,845	1,156,830	13.0-15.7-18.5	185,010	4,281	12,340	547
1975	1,348,244	303,073	163,927	189,553	990,485	13.0-16.6-18.1	175,455	620	9,894	1,411
1976	1,764,772	409,526	205,082	258,997	1,310,314	14.9-15.4-18.6	214,173	3,323	15,372	1,631
1977	1,599,131	377,698	180,840	232,687	1,175,295	14.4-15.3-18.9	207,442	925	10,175	690
1978	1,641,026	337,977	197,455	271,878	1,301,099	14.5-15.1-19.7	149,432	1,552	15,510	1,320
1979	1,909,454	369,782	230,250	320,782	1,536,164	13.6-14.9-19.7	161,835	1,572	18,613	366
1980	1,973,113	419,809	228,428	317,431	1,470,812	14.3-15.4-19.7	209,113	3,106	27,967	483
1981	1,662,293	368,935	164,210	254,310	1,107,001	13.2-14.8-20.9	222,693	981	23,248	230
1982	1,345,383	311,319	129,737	195,823	863,660	14.2-14.7-19.4	189,464	2,624	28,728	296
1983	1,594,541	343,839	177,143	255,793	1,063,841	13.8-16.0-20.7	197,492	6,493	35,312	2,131
1984	1,361,714	306,505	133,294	202,189	422,342*	13.8-24.9-9.9	242,555	19,976	156,315	297
1985	1,485,609	357,793	141,185	212,575	416,158*	15.5-28.2-10.7	293,356	24,006	168,125	424
1986	1,491,807	355,848	147,002	222,734	387,103*	15.5-30.7-9.6	295,977	27,984	185,703	358
1987	1,640,909	369,574	183,298	265,939	461,819*	15.1-32.7-8.0	299,790	32,278	228,977	188
1988	1,665,972	391,283	180,617	245,733	448,348*	14.9-33.5-6.4	324,657	30,288	217,082	447
1989	1,754,283	418,524	180,120	264,479	433,701*	14.9-34.4-5.8	353,945	31,053	239,329	480
1990	1,577,530	378,953	159,077	227,942	389,045*	15.2-34.9-5.2	320,000	23,056	207,537	632
1991	1,603,921	392,348	163,698	226,658	402,737*	15.0-34.6-5.1	331,927	24,250	205,982	518
1992	1,822,057	446,281	191,124	261,511	445,786*	15.5-36.8-4.5	377,191	27,085	241,190	648
1993	1,694,931	412,665	167,651	229,620	392,681*	16.0-38.0-4.0	351,170	20,025	213,626	52
1994	1,772,395	431,126	182,428	258,393	427,422*	15.7-37.3-4.1	364,019	22,761	240,753	109
1995	1,613,085	382,996	162,234	243,357	380,311*	15.7-36.7-3.8	323,265	22,609	228,901	0
1996	1,611,210	401,172	156,166	230,594	376,763*	15.5-36.4-4.5	342,857	18,904	213,686	444
1997	1,883,112	442,371	190,100	301,355	462,484*	15.4-36.7-5.0	370,973	20,582	278,159	363

1998	1,744,090	429,548	175,059	240,269	439,666*	15.2-36.3-4.1	362,533	15,335	222,374	401
1999	1,788,208	453,558	173,602	247,201	441,402*	15.1-36.2-4.1	386,962	13,888	228,957	380
2000	1,945,582	474,990	190,254	264,996	488,477*	14.8-36.0-3.8	402,177	14,337	246,548	177
2001	1,935,182	460,508	198,676	269,210	502,280*	15.2-36.9-3.2	384,319	13,304	253,002	370

\*Does not include bulk dry blends which are reported as input materials.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2001

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 <sub>3</sub>	Misc. Material	Nitrogen	Avail P <sub>2</sub> O <sub>5</sub>	Sol-uble K <sub>2</sub> O
Adair	4126	216	85	122	423	1012	---	923	811	827	102	20	8	928	488	676
Andrew	7060	91	26	14	131	1169	---	1265	3768	430	28	204	65	1906	593	718
Atchison	27091	37	136	1088	1261	2768	---	3614	3910	568	9178	5014	778	9232	2222	1707
Audrain	20240	111	53	477	641	5176	---	4908	---	3230	1487	3971	827	6102	2573	3238
Barry	5293	122	---	---	122	1083	13	1046	3028	---	---	---	1	1225	494	663
Barton	16082	20	10	635	665	4086	15	3642	1062	3409	2041	1073	89	4160	1880	2395
Bates	20257	48	---	112	160	4188	24	4876	4672	3468	897	1894	78	5885	2288	2534
Benton	3685	163	---	73	236	1094	---	910	334	693	74	160	184	811	446	667
Bollinger	2991	45	---	26	71	813	26	1136	769	176	---	---	---	554	545	496
Boone	8115	1068	29	249	1346	1739	6	1814	571	472	403	1711	53	2340	993	1141
Buchanan	28536	715	2	737	1454	863	94	1023	923	719	2342	1264	19854	3159	704	692
Butler	26974	139	1199	---	1338	7194	2309	2396	---	10570	1596	---	1571	6188	2314	4527
Caldwell	6248	10	---	---	10	1488	225	1579	870	1012	261	794	9	1775	834	899
Callaway	6308	175	92	22	289	1712	8	1753	1488	353	231	453	21	1457	835	1084
Camden	205	193	---	---	193	---	---	---	---	---	---	---	12	15	6	12
Cape Girardeau	40979	933	1089	278	2300	2924	513	2083	2245	1413	2348	893	26260	4596	1503	2084
Carroll	8318	28	65	249	342	744	---	1243	149	1616	1120	2997	107	3870	669	461
Carter	26	---	---	26	26	---	---	---	---	---	---	---	---	2	4	2
Cass	12414	667	48	64	779	2544	86	2524	3499	588	1999	320	75	2851	1325	1613
Cedar	3991	14	---	3	17	1091	78	1130	1385	284	---	---	6	806	557	638
Chariton	19516	5	733	1803	2541	3765	2	3129	394	2338	4075	2965	307	5619	2044	2772
Christian	5639	409	---	---	409	1544	141	1108	1819	275	---	---	343	986	620	946
Clark	14706	136	75	3453	3664	3229	**	1238	525	278	3795	1931	56	3505	793	2015
Clay	3094	1114	---	30	1144	573	**	**	23	540	516	184	159	841	45	422
Clinton	7338	110	---	10	120	1502	---	1814	1763	4	156	366	1613	1304	846	936
Cole	8331	748	22	1	771	1843	103	1861	1477	1475	41	626	134	2148	974	1192
Cooper	15473	35	---	41	76	2866	179	2850	2479	2360	2883	1736	44	4795	1410	1775
Crawford	2308	42	8	---	50	695	---	839	497	195	---	---	32	418	388	419
Dade	17817	261	25	34	320	4852	---	4784	6881	829	28	101	22	3718	2247	2829
Dallas	6015	163	---	78	241	1678	108	1736	2057	---	---	---	195	1053	883	1041
Davless	4257	67	69	7	143	778	223	1059	1089	345	127	476	17	1123	642	481
DeKalb	3267	1	32	26	59	934	53	894	287	105	459	475	1	837	451	577
Dent	3875	96	124	---	220	1436	77	1455	685	---	---	---	2	542	723	865
Douglas	1423	12	---	---	12	408	---	428	572	---	---	---	3	272	197	245
Dunklin	53374	179	1742	1281	3202	9611	896	3017	5221	4809	22314	142	4162	12484	2196	6479
Franklin	14631	654	1	120	775	3425	161	3088	1713	4187	50	1133	99	4091	1585	2169
Gasconade	8225	148	158	---	306	2573	113	1986	935	2232	---	---	80	1732	1009	1647
Gentry	7090	54	106	---	160	1000	---	1525	1868	---	1730	781	26	2050	738	639
Greene	18733	4867	2640	183	7690	3343	220	2318	4172	219	---	---	771	2809	1513	2332
Grundy	7225	19	45	2	66	1538	---	997	1776	1096	586	1055	111	2334	491	941
Harrison	7775	323	102	86	511	1599	44	1842	1450	502	679	1114	34	2196	964	1001
Henry	13453	86	565	26	677	3444	---	3314	3951	1684	32	239	112	2951	1579	2101
Hickory	2136	1	482	1	484	448	---	389	741	---	---	---	74	342	184	274
Holt	8890	25	57	914	996	469	---	484	2679	---	1863	2314	85	3465	407	431
Howard	4593	5	24	3	32	660	---	823	839	162	301	1679	97	1967	412	399
Howell	18330	168	---	---	168	5145	148	5564	7015	---	---	---	290	3419	2645	3096
Iron	11	11	---	---	11	---	---	---	---	---	---	---	---	---	---	---
Jackson	8870	6935	74	567	7576	115	43	1	---	333	186	43	573	1476	368	458
Jasper	10101	794	1163	133	2090	2035	31	1517	1230	2205	846	20	127	2237	999	1504
Jefferson	1808	931	66	1	998	244	65	206	265	3	---	---	27	231	162	194
Johnson	9222	109	---	359	468	1755	---	1762	2612	1451	649	457	68	2454	909	1140
Knox	6242	1	630	3	634	1762	364	926	1693	78	68	714	3	1450	702	1209
Laclede	7309	156	---	---	156	2558	249	1841	2499	---	---	---	6	1191	973	1506
Lafayette	25872	112	---	945	1057	3964	199	4926	1503	5025	3655	4109	1434	8156	2813	2574

Lawrence	6819	72	---	---	72	2407	50	1640	2644	---	---	---	6	1196	779	1382
Lewis	14675	18	335	43	396	4444	965	2362	1642	435	527	3870	34	4505	1647	2784
Lincoln	17134	319	3606	98	4023	3355	731	2583	706	2460	1942	1309	25	3907	1623	2088

\*\* Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 2001

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 <sub>3</sub>	Misc. Material	Nitrogen	Avail P <sub>2</sub> O <sub>5</sub>	Soluble K <sub>2</sub> O
Adair	7303	**	---	1	---	915	---	783	235	5370	---	---	---	2686	364	566
Andrew	4644	21	---	---	21	658	---	1391	1780	226	---	542	26	1412	643	401
Atchison	15639	10	15	395	420	2596	---	3363	755	32	4118	3536	819	4901	1856	1581
Audrain	17899	39	41	58	138	7405	21	7084	---	985	154	1889	223	3075	3665	4597
Barry	3719	11	19	---	30	633	---	612	2283	---	---	161	---	1020	283	383
Barton	13606	---	10	250	260	4726	---	3943	2036	1560	471	571	39	2764	1875	2755
Bates	7067	22	---	3	25	2350	---	2842	517	462	52	818	1	1574	1331	1421
Benton	2857	---	---	---	---	1195	127	1146	207	25	---	157	---	417	585	717
Bollinger	442	---	---	---	---	193	---	150	99	---	---	---	---	60	69	116
Boone	3821	255	---	76	331	1319	3	1425	190	198	---	318	37	706	712	846
Buchanan	14584	243	12	286	541	592	51	807	403	373	202	832	10783	1338	484	446
Butler	6395	1	75	---	76	1489	535	785	---	3376	---	---	134	1712	612	900
Caldwell	5797	---	---	---	---	1448	---	1424	1958	186	---	780	1	1611	688	869
Callaway	2440	13	147	14	174	638	---	623	804	18	---	143	40	549	305	414
Camden	106	101	---	---	101	1	---	---	---	---	---	---	4	11	8	18
Cape Girardeau	27474	184	88	122	394	3432	363	2579	906	1483	91	62	18164	2089	1425	2115
Carroll	4721	6	6	7	19	1676	25	1730	---	649	---	431	191	965	810	1027
Carter	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cass	9259	428	---	---	428	2825	83	2909	1377	114	1030	201	292	1547	1513	1773
Cedar	2208	5	10	---	15	732	---	700	687	74	---	---	---	395	323	431
Chariton	17923	1	1027	243	1271	5011	293	3570	19	427	3375	3370	587	4649	2200	3423
Christian	1928	212	---	---	212	447	48	327	685	---	**	---	216	321	212	284
Clark	8606	---	248	3	251	2243	**	3059	146	309	484	2119	2	2489	1640	1357
Clay	578	222	12	---	234	25	---	26	24	244	---	---	25	171	23	36
Clinton	10879	44	---	32	76	2067	---	3177	4360	---	32	1166	1	3018	1479	1270
Cole	2792	266	---	---	266	656	3	686	634	463	---	83	1	650	350	429
Cooper	9512	1	---	30	31	3856	108	3299	921	366	35	825	71	1766	1576	2387
Crawford	335	5	---	---	5	119	24	96	91	---	---	---	---	48	55	72
Dade	6222	367	---	---	367	2166	---	1908	1636	53	70	---	22	1007	922	1294
Dallas	1027	9	---	---	9	252	---	229	537	---	---	---	---	224	106	153
Davies	3698	2	---	---	2	988	51	1046	1359	---	25	222	5	789	568	592
DeKalb	6029	19	69	---	88	903	104	1527	2565	4	---	812	26	1823	767	569
Dent	1501	30	---	---	30	395	---	419	630	---	---	---	27	298	196	241
Douglas	166	---	---	---	---	47	---	48	71	---	---	---	---	32	22	27
Dunklin	10718	53	349	211	613	4783	1360	610	1187	956	267	32	910	1340	1009	2990
Franklin	4908	254	---	---	254	1638	195	1465	387	775	---	123	71	889	794	1035
Gasconade	2141	40	5	---	45	596	66	614	354	466	---	---	---	448	317	369
Gentry	6919	---	131	---	131	1688	152	1671	1928	---	484	859	6	1772	901	1066
Greene	7123	2041	67	68	2176	1258	112	1084	1983	44	3	---	463	1244	719	972
Grundy	3878	1	---	---	1	1136	---	1191	795	192	60	499	4	938	623	693
Harrison	5204	---	129	---	129	1334	10	1136	643	1	---	1949	2	1967	591	807
Henry	8734	---	352	---	352	2203	24	2449	2920	731	---	41	14	1779	1193	1338
Hickory	2028	---	410	---	410	307	---	486	732	---	---	---	93	359	227	188
Holt	12087	---	---	49	49	1194	---	2423	950	79	5608	1682	102	3644	1217	744
Howard	539	---	---	---	---	50	---	489	---	---	---	---	---	66	243	29
Howell	5357	43	---	---	43	1017	---	1175	2882	---	---	---	240	1216	546	620
Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	3194	2207	15	185	2407	10	19	27	---	404	---	---	327	652	154	197
Jasper	8138	686	763	---	1449	2395	26	1858	751	1001	387	240	31	1473	1164	1793
Jefferson	468	161	---	---	161	79	59	56	106	2	2	---	3	94	63	69
Johnson	1760	44	---	74	118	584	---	365	79	261	265	60	28	336	194	373
Knox	5657	---	542	---	542	1279	---	1236	874	---	250	1476	---	1839	677	948
Laclede	4849	27	---	---	27	1002	23	618	3179	---	---	---	---	1194	298	604
Lafayette	24507	39	---	303	342	5517	---	5149	349	1767	5999	4782	602	7498	2707	3401

Lawrence	5758	---	---	---	---	1606	82	1239	2820	---	---	---	11	1181	597	944
Lewis	9139	---	**	7	**	3474	487	1946	849	419	6	2021	9	2471	1127	2110
Lincoln	9650	53	72	23	148	3869	707	1714	394	1235	198	1326	59	2182	1148	2358

\*\* Credits exceeded shipments.



APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2001

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 <sub>3</sub>	Misc. Material	Nitrogen	Avail P <sub>2</sub> O <sub>5</sub>	Soluble K <sub>2</sub> O
Linn	7900	81	99	55	235	2161	247	2237	1292	1118	139	445	26	1718	1247	1338
Livingston	5996	106	100	88	294	1435	175	1337	1075	926	227	475	52	1529	745	922
McDonald	28	1	20	1	22	2	---	---	4	---	---	---	---	4	3	4
Macon	8727	85	303	14	402	2236	---	2241	1298	1504	547	329	170	1979	1140	1443
Madison	2067	73	---	---	73	526	20	853	---	595	---	---	---	429	403	317
Maries	2803	---	2	---	2	736	50	881	1111	23	---	---	---	547	428	448
Marion	12524	16	566	882	1464	3705	122	2095	826	603	1829	1824	56	3079	1381	2296
Mercer	6718	6	395	---	401	617	48	758	428	1	3	---	4462	339	440	468
Miller	5173	65	---	---	65	1169	---	1470	691	1772	---	---	6	1320	680	728
Mississippi	62778	12	296	1413	1721	5874	502	3064	1304	4786	42034	978	2515	17890	2127	3355
Moniteau	3737	40	---	152	192	578	---	1234	132	875	269	428	29	1116	604	380
Monroe	12409	67	570	8	645	3712	675	2783	3310	51	301	903	29	2504	1712	2372
Montgomery	15250	66	112	1000	1178	3428	156	3027	443	2301	2469	2003	245	4288	1866	2127
Morgan	10511	107	---	467	574	2652	7	2827	1513	2316	216	---	406	2346	1370	1668
New Madrid	62851	---	1402	1094	2496	9293	242	5333	5195	16201	19473	890	3728	18084	2808	5972
Newton	6923	61	---	123	184	1811	50	939	2860	410	489	---	180	1533	484	1049
Nodaway	16695	35	346	199	580	2096	102	3015	2979	1427	4945	1346	205	4815	1641	1329
Oregon	9866	21	72	101	194	2467	100	2841	4176	1	34	6	47	1981	1397	1502
Osage	11166	194	23	175	392	2616	133	2478	2735	2042	378	307	85	2725	1246	1670
Ozark	5697	10	---	---	10	1682	5	1856	1969	124	---	---	51	1069	855	1008
Pemiscot	27932	37	571	124	732	1426	265	446	572	6249	16742	54	1446	8889	431	990
Perry	13188	307	12	69	388	2987	337	2930	2066	1476	1287	1682	35	3719	1524	1790
Pettis	10313	945	---	148	1093	2188	---	2338	2988	850	277	481	98	2482	1227	1407
Phelps	2107	302	---	---	302	489	48	700	536	---	---	---	32	336	359	298
Pike	12646	51	1042	338	1431	2260	25	2188	2224	1036	2022	1146	314	3417	1337	1624
Platte	3017	372	---	25	397	562	---	699	562	14	1	729	53	1013	344	377
Polk	9909	186	---	2	188	3410	---	3841	1572	696	21	20	161	1613	1780	2068
Pulaski	4950	112	---	---	112	1368	---	1655	1794	14	---	---	7	920	763	823
Putnam	4903	38	7	90	135	1430	26	1090	1113	601	498	8	2	1012	526	899
Ralls	9358	---	114	3124	3238	1619	130	847	375	978	1339	783	49	1979	978	1687
Randolph	4435	589	73	402	1064	1052	1	880	1046	106	221	---	65	723	541	771
Ray	9248	85	---	62	147	1279	---	1325	1390	686	1741	2502	178	3593	674	787
Reynolds	2	2	---	---	2	---	---	---	---	---	---	---	---	---	---	---
Ripley	5754	23	453	137	613	1111	199	1456	518	1404	9	---	444	1218	877	784
St. Charles	15597	2728	327	547	3602	1303	125	495	780	1065	7028	939	260	4285	740	999
St. Clair	7285	16	73	---	89	1853	---	2031	2298	996	---	---	18	1608	936	1123
St. Francois	2887	145	90	4	239	1092	24	802	---	679	---	---	51	483	396	671
Ste. Genevieve	5725	156	---	164	320	854	79	1104	630	1118	1123	474	23	1710	624	528
St. Louis	17208	13966	201	449	14616	180	115	205	96	182	1	679	1134	2893	672	895
Saline	18311	44	175	472	691	2804	332	3878	678	2393	1906	4933	696	6681	2151	1830
Schuyler	1574	6	---	33	39	353	---	434	27	414	81	72	154	370	207	224
Scotland	7583	7	733	2042	2782	754	207	535	661	487	1439	620	98	1762	639	1052
Scott	24119	395	1384	520	2299	3487	679	1330	573	1971	11376	1223	1181	6445	1167	2383
Shannon	1227	---	---	---	---	738	73	416	---	---	---	---	---	74	224	442
Shelby	16245	4	2443	1691	4138	4163	24	2631	1395	1525	1218	932	219	3181	1753	3484
Stoddard	49705	69	720	204	993	9758	1014	7095	672	17138	7397	2401	3237	14419	3887	6105
Stone	4021	94	---	---	94	1640	---	675	1612	---	---	---	---	670	311	1018
Sullivan	3893	7	---	---	7	1163	78	1204	890	233	318	---	---	718	594	706
Taney	432	426	---	---	426	---	---	---	---	---	---	---	6	38	15	14
Texas	10940	64	---	2	66	3416	15	3751	3081	---	70	---	541	1826	1740	2044
Vernon	17394	42	---	191	233	4196	138	4785	3260	2898	364	1394	126	4585	2258	2536
Warren	6996	370	2464	17	2851	1294	146	1014	156	1272	---	245	18	1304	575	833
Washington	2916	38	---	2	40	863	---	1187	---	774	24	---	28	585	549	521
Wayne	2309	14	25	---	39	766	98	839	497	---	---	20	50	353	434	462
Webster	10279	281	219	6	506	2771	172	2369	3834	---	---	---	627	1899	1196	1689

Worth	1990	---	---	---	---	202	50	556	471	249	338	122	2	564	284	125
Wright	20376	133	---	8	141	6662	50	5939	7500	---	---	---	84	3679	2771	4036

\*\* Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JULY 1 THRU DECEMBER 31, 2001

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 <sub>3</sub>	Misc. Material	Nitrogen	Avail P <sub>2</sub> O <sub>5</sub>	Soluble K <sub>2</sub> O
Linn	4010	2	---	---	2	1534	159	636	504	989	---	177	9	849	414	931
Livingston	4466	7	132	---	139	1565	216	1254	690	237	1	364	---	859	697	967
McDonald	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Macon	6628	4	182	---	186	2905	---	2082	179	668	16	536	56	1109	1087	1836
Madison	501	---	---	---	---	175	---	226	---	100	---	---	---	86	103	105
Maries	128	---	---	---	---	26	---	51	51	---	---	---	---	26	23	15
Marion	8520	2	280	354	636	2733	75	2612	516	57	435	1414	42	1966	1396	1652
Mercer	1088	2	228	---	230	101	---	102	---	---	---	76	579	93	90	139
Miller	772	28	---	---	28	200	---	170	128	246	---	---	---	190	79	125
Mississippi	17697	---	2	298	300	5668	1533	2842	156	2135	3755	197	1111	3045	2105	3406
Moniteau	2965	11	---	---	11	881	78	756	101	972	26	125	15	731	385	547
Monroe	6882	310	86	---	396	1676	120	1674	511	---	---	2483	22	2512	930	1140
Montgomery	6369	22	48	32	102	2428	103	2202	86	580	76	531	261	1157	1147	1507
Morgan	2627	20	---	27	47	799	---	642	349	660	---	---	130	561	310	496
New Madrid	16696	40	507	133	680	5751	205	3400	908	3997	894	**	879	3221	1756	3639
Newton	4991	22	---	25	47	533	---	591	2529	397	74	---	820	1184	280	314
Nodaway	20472	53	**	14	52	3479	131	3942	3077	804	5522	3359	106	6331	1967	2091
Oregon	1998	---	3	---	3	434	25	597	939	---	---	---	---	426	286	262
Osage	2712	43	---	25	68	845	106	475	744	453	---	21	---	571	274	532
Ozark	2124	---	---	---	---	590	---	541	942	51	---	---	---	440	248	355
Pemiscot	3636	---	95	---	95	510	271	153	203	1595	766	---	43	1075	215	345
Perry	6498	58	---	34	92	2167	127	1266	1576	513	252	505	---	1494	655	1318
Pettis	7516	15	---	---	15	2158	---	2449	2071	380	---	261	182	1478	1183	1340
Phelps	1941	417	---	---	417	567	13	350	571	---	---	---	23	307	185	351
Pike	10267	7	1640	16	1663	2992	133	2386	1286	77	303	1373	54	2238	1496	2381
Platte	6543	132	---	---	132	536	---	1479	2314	878	1	1174	29	2455	689	347
Polk	6253	---	---	---	---	1444	---	1301	3211	103	---	21	173	1426	598	874
Pulaski	3011	---	---	---	---	652	40	1094	1217	8	---	---	---	612	521	391
Putnam	2053	---	---	---	---	786	54	752	134	325	---	---	2	330	370	483
Ralls	5899	---	---	1589	1589	1634	144	1485	25	146	283	593	---	977	1062	1291
Randolph	4843	101	---	1975	2076	819	---	802	170	---	824	140	12	648	639	969
Ray	9923	1	---	---	1	2696	---	2995	1273	401	436	1960	161	2803	1499	1633
Reynolds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ripley	684	---	3	30	33	147	---	221	26	199	---	---	58	140	107	94
St. Charles	7448	885	254	6	1145	1672	749	995	264	184	1374	1008	57	1722	943	1200
St. Clair	4415	---	---	---	---	914	26	1240	1942	293	---	---	---	1017	582	551
St. Francois	1816	53	25	---	78	606	53	575	---	502	---	---	2	341	295	372
Ste. Genevieve	3338	101	---	---	101	1167	202	608	201	818	214	20	7	650	385	713
St. Louis	7681	5080	214	133	5427	1541	52	9	6	200	---	10	436	1150	332	1474
Saline	17411	---	---	---	---	4814	362	4455	6	1008	258	5917	591	6123	2325	2978
Schuyler	235	1	---	26	27	52	---	78	---	---	2	75	1	77	39	38
Scotland	4551	---	41	454	495	1567	338	519	372	291	664	259	46	791	461	1092
Scott	8362	116	78	267	461	3923	682	1664	302	473	459	161	237	941	1164	2417
Shannon	1119	---	---	---	---	794	50	50	222	---	3	---	---	85	45	476
Shelby	9769	---	1240	25	1265	3047	26	3171	555	181	91	1363	70	2013	1808	2239
Stoddard	15448	11	47	69	127	5749	2039	2515	25	4419	176	71	327	2676	2110	3467
Stone	1571	22	---	---	22	---	---	345	1204	---	---	---	---	471	158	---
Sullivan	1452	---	---	---	---	337	78	491	101	444	---	---	1	325	263	202

Taney	76	76	---	---	76	---	---	---	---	---	---	---	6	2	4
Texas	3848	---	---	1	1	1083	43	675	1935	---	---	111	788	313	618
Vernon	11437	---	---	28	28	3670	78	3818	1836	1022	2	954	2567	1794	2206
Warren	1795	15	---	21	36	475	155	497	5	559	---	61	403	306	294
Washington	253	---	---	---	---	74	---	104	---	75	---	---	53	47	44
Wayne	663	---	---	---	---	149	---	321	174	---	---	19	132	147	89
Webster	4111	97	219	9	325	1119	50	894	1676	---	---	---	753	443	684
Worth	2548	---	---	---	---	466	53	552	989	127	---	361	786	282	282
Wright	10086	2	---	4	6	1819	---	2287	5828	---	---	103	2477	1052	1095

\*\* Credits exceeded shipments.

APPROXIMATE TONNAGE BY COUNTIES OF FERTILIZERS SHIPPED FOR USE IN MISSOURI, JANUARY 1 THRU JUNE 30, 2001

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 <sub>3</sub>	Misc. Material	Nitrogen	Avail P <sub>2</sub> O <sub>5</sub>	Soluble K <sub>2</sub> O
Linn	7900	81	99	55	235	2161	247	2237	1292	1118	139	445	26	1718	1247	1338
Livingston	5996	106	100	88	294	1435	175	1337	1075	926	227	475	52	1529	745	922
McDonald	28	1	20	1	22	2	---	---	4	---	---	---	---	4	3	4
Macon	8727	85	303	14	402	2236	---	2241	1298	1504	547	329	170	1979	1140	1443
Madison	2067	73	---	---	73	526	20	853	---	595	---	---	---	429	403	317
Maries	2803	---	2	---	2	736	50	881	1111	23	---	---	---	547	428	448
Marion	12524	16	566	882	1464	3705	122	2095	826	603	1829	1824	56	3079	1381	2296
Mercer	6718	6	395	---	401	617	48	758	428	1	3	---	4462	339	440	468
Miller	5173	65	---	---	65	1169	---	1470	691	1772	---	---	6	1320	680	728
Mississippi	62778	12	296	1413	1721	5874	502	3064	1304	4786	42034	978	2515	17890	2127	3355
Moniteau	3737	40	---	152	192	578	---	1234	132	875	269	428	29	1116	604	380
Monroe	12409	67	570	8	645	3712	675	2783	3310	51	301	903	29	2504	1712	2372
Montgomery	15250	66	112	1000	1178	3428	156	3027	443	2301	2469	2003	245	4288	1866	2127
Morgan	10511	107	---	467	574	2652	7	2827	1513	2316	216	---	406	2346	1370	1668
New Madrid	62851	---	1402	1094	2496	9293	242	5333	5195	16201	19473	890	3728	18084	2808	5972
Newton	6923	61	---	123	184	1811	50	939	2860	410	489	---	180	1533	484	1049
Nodaway	16695	35	346	199	580	2096	102	3015	2979	1427	4945	1346	205	4815	1641	1329
Oregon	9866	21	72	101	194	2467	100	2841	4176	1	34	6	47	1981	1397	1502
Osage	11166	194	23	175	392	2616	133	2478	2735	2042	378	307	85	2725	1246	1670
Ozark	5697	10	---	---	10	1682	5	1856	1969	124	---	---	51	1069	855	1008
Pemiscot	27932	37	571	124	732	1426	265	446	572	6249	16742	54	1446	8889	431	990
Perry	13188	307	12	69	388	2987	337	2930	2066	1476	1287	1682	35	3719	1524	1790
Pettis	10313	945	---	148	1093	2188	---	2338	2988	850	277	481	98	2482	1227	1407
Phelps	2107	302	---	---	302	489	48	700	536	---	---	---	32	336	359	298
Pike	12646	51	1042	338	1431	2260	25	2188	2224	1036	2022	1146	314	3417	1337	1624
Platte	3017	372	---	25	397	562	---	699	562	14	1	729	53	1013	344	377
Polk	9909	186	---	2	188	3410	---	3841	1572	696	21	20	161	1613	1780	2068
Pulaski	4950	112	---	---	112	1368	---	1655	1794	14	---	---	7	920	763	823
Putnam	4903	38	7	90	135	1430	26	1090	1113	601	498	8	2	1012	526	899
Ralls	9358	---	114	3124	3238	1619	130	847	375	978	1339	783	49	1979	978	1687
Randolph	4435	589	73	402	1064	1052	1	880	1046	106	221	---	65	723	541	771
Ray	9248	85	---	62	147	1279	---	1325	1390	686	1741	2502	178	3593	674	787
Reynolds	2	2	---	---	2	---	---	---	---	---	---	---	---	---	---	---
Ripley	5754	23	453	137	613	1111	199	1456	518	1404	9	---	444	1218	877	784
St. Charles	15597	2728	327	547	3602	1303	125	495	780	1065	7028	939	260	4285	740	999
St. Clair	7285	16	73	---	89	1853	---	2031	2298	996	---	---	18	1608	936	1123
St. Francois	2887	145	90	4	239	1092	24	802	---	679	---	---	51	483	396	671
Ste. Genevieve	5725	156	---	164	320	854	79	1104	630	1118	1123	474	23	1710	624	528
St. Louis	17208	13966	201	449	14616	180	115	205	96	182	1	679	1134	2893	672	895
Saline	18311	44	175	472	691	2804	332	3878	678	2393	1906	4933	696	6681	2151	1830
Schuyler	1574	6	---	33	39	353	---	434	27	414	81	72	154	370	207	224
Scotland	7583	7	733	2042	2782	754	207	535	661	487	1439	620	98	1762	639	1052

Scott	24119	395	1384	520	2299	3487	679	1330	573	1971	11376	1223	1181	6445	1167	2383
Shannon	1227	---	---	---	---	738	73	416	---	---	---	---	---	74	224	442
Shelby	16245	4	2443	1691	4138	4163	24	2631	1395	1525	1218	932	219	3181	1753	3484
Stoddard	49705	69	720	204	993	9758	1014	7095	672	17138	7397	2401	3237	14419	3887	6105
Stone	4021	94	---	---	94	1640	---	675	1612	---	---	---	---	670	311	1018
Sullivan	3893	7	---	---	7	1163	78	1204	890	233	318	---	---	718	594	706
Taney	432	426	---	---	426	---	---	---	---	---	---	---	6	38	15	14
Texas	10940	64	---	2	66	3416	15	3751	3081	---	70	---	541	1826	1740	2044
Vernon	17394	42	---	191	233	4196	138	4785	3260	2898	364	1394	126	4585	2258	2536
Warren	6996	370	2464	17	2851	1294	146	1014	156	1272	---	245	18	1304	575	833
Washington	2916	38	---	2	40	863	---	1187	---	774	24	---	28	585	549	521
Wayne	2309	14	25	---	39	766	98	839	497	---	---	20	50	353	434	462
Webster	10279	281	219	6	506	2771	172	2369	3834	---	---	---	627	1899	1196	1689
Worth	1990	---	---	---	---	202	50	556	471	249	338	122	2	564	284	125
Wright	20376	133	---	8	141	6662	50	5939	7500	---	---	---	84	3679	2771	4036

\*\* Credits exceeded shipments.