

# FERTILIZING MATERIALS TONNAGE REPORT

JANUARY – JUNE 2016



FEED, FERTILIZER, AND LIVESTOCK DRUGS REGULATORY SERVICES  
DIVISION OF INSPECTION SERVICES

SACRAMENTO, CALIFORNIA 95814

## FOREWORD

This publication summarizes State and County tonnage sales/distributions of commercial fertilizers, specialty fertilizers, and agricultural minerals, as required by Section 14622 of the Food and Agricultural Code.

The tonnage, by grade and analysis, is computed from licensee reports filed with the California Department of Food and Agriculture, in accordance with Section 14621 of the Food and Agricultural Code.

Licensees are required to report, semi-annually, the tonnage of commercial fertilizers, specialty fertilizers, and/or agricultural minerals sold/distributed in California, as defined in the Food and Agricultural Code, Sections 14512, 14522 and 14563. The tonnage of materials is to be reported by the last licensee selling/distributing to unlicensed purchasers.

The tonnage report is a breakdown of the raw materials for nitrogen, phosphorus, potassium, and agricultural mineral materials. The amounts of nitrogen, phosphorus, and potassium ingredients, in differing formulas, are determined by the last licensee, and that amount is placed in the appropriate category.

Keeping the above in mind, this report is only as accurate as the reports received in this office; therefore, the figures may vary from publication to publication.

If you have any questions, please contact our office at the number below.

Sincerely,

Original Signed by Amadou Ba

Amadou Ba, Ph.D,  
Environmental Program Manager II

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**TOTAL TONS OF MATERIALS REPORTED FOR THE PERIOD INDICATED**

CODE	MATERIAL NAME	JULY-DEC	JAN-JUNE	JULY-DEC	JAN-JUNE	JULY-JUNE	JULY-JUNE
		2014	2015	2015	2016	2014-2015	2015-2016
0	IDENTIFIED BY GRADE	832,943	528,586	510,198	478,720	1,361,529	988,918
0	N-P-K GRADES	441,929	375,762	400,115	371,005	817,691	771,120
2	ANHYDROUS AMMONIA	14,818	14,636	6,888	5,310	29,454	12,198
6	AQUA AMMONIA	69,562	134,926	11,283	144,521	204,488	155,804
10	AMMONIUM NITRATE	10,658	18,427	30,006	2,065	29,085	32,071
12	AMMONIUM NITRATE SOLUTION	22,220	43,534	32,785	26,096	65,754	58,881
20	AMMONIUM POLYSULFIDE	194	1,923	659	286	2,117	945
24	AMMONIUM SULFATE	142,162	159,212	105,814	60,716	301,374	166,530
31	AMMONIUM THIOSULFATE	20,109	52,437	151,174	48,834	72,546	200,008
35	CALCIUM AMMONIUM NITRATE	89,277	223,568	39,913	114,506	312,845	154,419
43	CALCIUM NITRATE	18,520	23,838	9,451	15,932	42,358	25,383
58	NITROGEN SOLUTION 28%	2,389	4,515	1,505	1,791	6,904	3,296
60	NITROGEN SOLUTION 32%	221,953	438,676	179,344	312,531	660,629	491,875
62	SODIUM NITRATE	517	1,448	786	1,358	1,965	2,144
64	SULFUR COATED UREA	18	10	83	307	28	390
66	UREA	65,504	76,317	67,756	58,988	141,821	126,744
67	UREA SOLUTION	2,402	3,543	10,269	2,871	5,945	13,140
203	DIAMMONIUM PHOSPHATE	9,363	1,931	7,869	130	11,294	7,999
207	AMMONIUM PHOSPHATE SULFATE	11,303	48,683	8,134	13,539	59,986	21,673
209	MONOAMMONIUM PHOSPHATE	35,795	26,474	33,648	19,912	62,269	53,560
248	PHOSPHORIC ACID	7,056	10,472	8,849	6,369	17,528	15,218
249	LIQUID AMMONIUM POLYPHOSPHATE	30,821	41,835	25,342	32,239	72,656	57,581
263	SUPERPHOSPHATE, NORMAL	30	378	92	2,852	408	2,944
267	SUPERPHOSPHATE, TRIPLE	483	162	177	125	645	302
428	MURIATE OF POTASH	25,720	26,326	19,223	19,116	52,046	38,339
443	SULFATE OF POTASH, MAGNESIA	12,665	19,906	8,543	4,876	32,571	13,419
453	POTASSIUM NITRATE	14,058	24,259	13,934	7,400	38,317	21,334
463	POTASSIUM SULFATE	59,433	70,448	93,580	41,755	129,881	135,335
601	BLOOD MEAL	122	298	8	168	420	176
667	SEWAGE SLUDGE	72,170	31,352	75,927	35,534	103,522	111,461
723	COPPER - ALL MATERIALS	754	743	20,696	584	1,497	21,280
731	IRON - ALL MATERIALS	2,553	2,917	1,334	2,064	5,470	3,398
732	GYPHOSUM - ALL MATERIALS	1,124,272	785,743	1,206,761	624,561	1,910,015	1,831,322
770	SULFUR	107,179	139,676	148,207	71,256	246,855	219,463
774	SULFURIC ACID	806,986	350,174	527,480	96,204	1,157,160	623,684
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	109,475	189,272	372,816	169,816	298,747	542,632
907	LIMING MATERIALS - ALL MATERIALS	234,302	136,428	292,419	79,150	370,730	371,569
0	TOTAL	4,619,715	4,008,835	4,423,068	2,873,487	8,628,550	7,296,555

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 TOTAL TONS OF NUTRIENTS REPORTED FOR THE PERIOD INDICATED**

CODE	MATERIAL NAME	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC
		2014 N	2014 P2O5	2014 K2O	2015 N	2015 P2O5	2015 K2O
0	IDENTIFIED BY GRADE	326,584	45,100	70,245	224,434	52,459	68,801
2	ANHYDROUS AMMONIA	12,151	0	0	5,648	0	0
6	AQUA AMMONIA	13,912	0	0	2,257	0	0
10	AMMONIUM NITRATE	3,624	0	0	845	0	0
12	AMMONIUM NITRATE SOLUTION	4,444	0	0	3,557	0	0
20	AMMONIUM POLYSULFIDE	39	0	0	132	0	0
24	AMMONIUM SULFATE	29,854	0	0	7,102	0	0
31	AMMONIUM THIOSULFATE	2,413	0	0	1,974	0	0
35	CALCIUM AMMONIUM NITRATE	15,177	0	0	6,978	0	0
43	CALCIUM NITRATE	2,778	0	0	1,459	0	0
58	NITROGEN SOLUTION 28%	669	0	0	421	0	0
60	NITROGEN SOLUTION 32%	71,025	0	0	53,367	0	0
62	SODIUM NITRATE	83	0	0	128	0	0
64	SULFUR COATED UREA	6	0	0	30	0	0
66	UREA	30,132	0	0	23,904	0	0
67	UREA SOLUTION	480	0	0	2,054	0	0
203	DIAMMONIUM PHOSPHATE	1,685	4,307	0	1,416	3,620	0
207	AMMONIUM PHOSPHATE SOLUTION	1,808	2,261	0	661	827	0
209	MONOAMMONIUM PHOSPHATE	3,937	18,613	0	3,703	17,506	0
248	PHOSPHORIC ACID	0	3,810	0	0	4,784	0
249	LIQUID AMMONIUM POLYPHOSPHATE	3,082	10,479	0	2,534	8,616	0
263	SUPERPHOSPHATE, NORMAL	0	7	0	0	20	0
267	SUPERPHOSPHATE, TRIPLE	0	222	0	0	81	0
428	MURIATE OF POTASH	0	0	15,432	0	0	11,534
443	SULFATE OF POTASH MAGNESIA	0	0	2,786	0	0	1,880
453	POTASSIUM NITRATE	1,968	0	6,186	687	0	2,159
463	POTASSIUM SULFATE	0	0	29,717	0	0	46,647
601	BLOOD MEAL	15	0	0	13	0	0
667	SEWAGE SLUDGE	4,330	1,443	722	4,556	1,519	759
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPHUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	530,198	86,243	125,087	347,858	89,431	131,779

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CODE	MATERIAL NAME	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE
		2015 N	2015 P2O5	2015 K2O	2016 N	2016 P2O5	2016 K2O
0	IDENTIFIED BY GRADE	195,555	72,508	105,513	216,628	65,203	89,174
2	ANHYDROUS AMMONIA	12,002	0	0	4,354	0	0
6	AQUA AMMONIA	26,985	0	0	28,904	0	0
10	AMMONIUM NITRATE	642	0	0	702	0	0
12	AMMONIUM NITRATE SOLUTION	5,414	0	0	5,219	0	0
20	AMMONIUM POLYSULFIDE	385	0	0	57	0	0
24	AMMONIUM SULFATE	16,646	0	0	12,750	0	0
31	AMMONIUM THIOSULFATE	6,292	0	0	5,860	0	0
35	CALCIUM AMMONIUM NITRATE	34,245	0	0	19,466	0	0
43	CALCIUM NITRATE	3,639	0	0	2,390	0	0
58	NITROGEN SOLUTION 28%	1,264	0	0	501	0	0
60	NITROGEN SOLUTION 32%	134,889	0	0	100,010	0	0
62	SODIUM NITRATE	232	0	0	217	0	0
64	SULFUR COATED UREA	4	0	0	111	0	0
66	UREA	33,686	0	0	27,134	0	0
67	UREA SOLUTION	709	0	0	574	0	0
203	DIAMMONIUM PHOSPHATE	348	888	0	23	60	0
207	AMMONIUM PHOSPHATE SOLUTION	3,248	4,059	0	2,166	2,708	0
209	MONOAMMONIUM PHOSPHATE	2,914	13,775	0	2,190	10,354	0
248	PHOSPHORIC ACID	0	5,657	0	0	3,439	0
249	LIQUID AMMONIUM POLYPHOSPHATE	4,184	14,227	0	3,224	10,961	0
263	SUPERPHOSPHATE, NORMAL	0	83	0	0	627	0
267	SUPERPHOSPHATE, TRIPLE	0	75	0	0	58	0
428	MURIATE OF POTASH	0	0	12,940	0	0	11,470
443	SULFATE OF POTASH MAGNESIA	0	0	4,282	0	0	1,073
453	POTASSIUM NITRATE	1,566	0	4,922	1,036	0	3,256
463	POTASSIUM SULFATE	0	0	34,749	0	0	20,878
601	BLOOD MEAL	77	0	0	20	0	0
667	SEWAGE SLUDGE	1,881	627	314	2,132	711	355
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPSUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	486,806	111,900	162,719	435,671	94,121	126,205

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CODE	MATERIAL NAME	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE
		14-15 N	14-15 P2O5	14-15 K2O	15-16 N	15-16 P2O5	15-16 K2O
0	IDENTIFIED BY GRADE	522,139	117,608	175,758	441,062	117,662	157,975
2	ANHYDROUS AMMONIA	24,152	0	0	10,002	0	0
6	AQUA AMMONIA	40,898	0	0	31,161	0	0
10	AMMONIUM NITRATE	4,266	0	0	1,547	0	0
12	AMMONIUM NITRATE SOLUTION	9,858	0	0	8,776	0	0
20	AMMONIUM POLYSULFIDE	423	0	0	189	0	0
24	AMMONIUM SULFATE	46,500	0	0	19,852	0	0
31	AMMONIUM THIOSULFATE	8,706	0	0	7,834	0	0
35	CALCIUM AMMONIUM NITRATE	49,422	0	0	26,444	0	0
43	CALCIUM NITRATE	6,417	0	0	3,849	0	0
58	NITROGEN SOLUTION 28%	1,933	0	0	923	0	0
60	NITROGEN SOLUTION 32%	205,914	0	0	153,377	0	0
62	SODIUM NITRATE	314	0	0	345	0	0
64	SULFUR COATED UREA	10	0	0	140	0	0
66	UREA	63,818	0	0	51,038	0	0
67	UREA SOLUTION	1,189	0	0	2,628	0	0
203	DIAMMONIUM PHOSPHATE	2,033	5,195	0	1,440	3,680	0
207	AMMONIUM PHOSPHATE SOLUTION	5,056	6,320	0	2,828	3,534	0
209	MONOAMMONIUM PHOSPHATE	6,851	32,389	0	5,893	27,860	0
248	PHOSPHORIC ACID	0	9,467	0	0	8,223	0
249	LIQUID AMMONIUM POLYPHOSPHATE	7,267	24,706	0	5,758	19,578	0
263	SUPERPHOSPHATE, NORMAL	0	90	0	0	648	0
267	SUPERPHOSPHATE, TRIPLE	0	297	0	0	139	0
428	MURIATE OF POTASH	0	0	28,372	0	0	23,003
443	SULFATE OF POTASH MAGNESIA	0	0	7,068	0	0	2,952
453	POTASSIUM NITRATE	3,534	0	11,108	1,723	0	5,415
463	POTASSIUM SULFATE	0	0	64,466	0	0	67,525
601	BLOOD MEAL	91	0	0	33	0	0
667	SEWAGE SLUDGE	6,211	2,070	1,035	6,688	2,229	1,115
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPHUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	1,017,003	198,142	287,807	783,529	183,552	257,985

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 JANUARY-JUNE 2016  
 TONS OF NITROGEN MATERIALS - FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLYSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER
ALAMEDA	0	0	0	0	0	54	8	0	7	0	0	290	0	0	56	0	392
ALPINE	0	0	0	0	0	12	0	0	0	0	0	0	0	0	2	0	0
AMADOR	0	0	0	0	0	29	12	0	1	0	0	3	0	0	1	0	18
BUTTE	0	33,636	0	46	0	13,399	1,151	0	1,380	171	0	9,606	0	0	848	0	1,340
CALAVERAS	0	0	0	0	0	25	14	0	21	0	0	0	0	0	0	0	7
COLUSA	480	42,424	0	0	0	3,532	1,362	0	8,484	6	49	10,698	1	0	2,724	0	3,555
CONTRA COSTA	6	111	16	0	0	92	277	0	550	64	0	1,874	0	0	223	1	384
DEL NORTE	0	107	0	0	0	0	0	0	0	79	0	0	0	0	0	20	4
EL DORADO	0	14	0	0	0	14	0	0	11	12	0	3	0	0	1	0	20
FRESNO	193	824	0	74	125	1,531	13,794	122	18,217	1,714	437	45,816	77	25	3,071	471	21,380
GLENN	0	20,324	0	0	0	4,208	45	0	1,235	32	0	5,372	0	0	315	0	1,386
HUMBOLDT	0	0	0	0	0	6	0	0	0	69	0	2	0	0	0	0	758
IMPERIAL	0	3	0	4,620	0	1,773	21	0	1,143	122	526	19,052	111	0	17,523	35	12,559
INYO	0	0	0	0	0	2	0	0	17	4	0	81	0	0	39	0	71
KERN	630	0	5	40	32	634	7,836	0	9,739	530	3	64,112	583	0	2,117	56	24,969
KINGS	610	5	0	0	0	248	1,863	0	1,534	1,114	0	15,580	0	0	1,689	4	4,961
LAKE	0	0	0	0	0	71	0	0	240	17	0	201	0	0	46	0	63
LASSEN	0	0	0	0	0	822	0	0	11	38	0	13	0	0	507	0	44
LOS ANGELES	4	0	0	733	0	187	69	0	0	76	0	225	0	0	973	75	2,895
MADERA	27	145	0	1,251	0	124	7,780	0	6,535	444	22	14,747	4	0	472	387	6,122
MARIN	0	0	0	0	0	4	4	0	0	0	0	6	0	0	0	0	34
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	0	0	0	0	1	0	0	67	56	0	22	0	0	12	0	295
MERCED	16	67	0	270	0	1,280	3,884	0	9,664	329	11	15,217	0	0	1,128	6	15,230
MODOC	2	0	0	0	0	1,040	163	0	3	0	0	277	0	0	2,917	0	7
MONO	0	0	0	0	0	63	0	0	0	0	0	0	0	0	32	0	7
MONTEREY	0	0	11	11,853	0	1,108	2,081	19	6,062	736	28	5,778	193	0	1,772	368	37,802
NAPA	0	0	0	0	0	2	0	0	34	163	0	2	0	0	8	0	173
NEVADA	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	24
ORANGE	0	0	0	77	0	185	54	0	290	244	0	99	28	0	322	2	2,434
PLACER	0	1,902	197	0	0	151	125	0	1	0	0	53	0	0	27	0	779
PLUMAS	0	0	0	0	0	0	0	0	0	0	0	6	0	0	14	0	48
RIVERSIDE	263	0	0	2,053	0	652	39	2	3,447	817	0	6,089	71	0	688	1	4,157
SACRAMENTO	507	902	0	9	0	262	52	0	338	965	0	2,478	0	0	1,111	0	1,271
SAN BENITO	0	0	0	9	0	69	5	0	802	1	0	85	1	0	12	0	3,568
SAN BERNARDII	0	0	0	0	0	73	0	0	13	245	0	219	0	0	251	0	1,032
SAN DIEGO	0	0	89	41	0	170	0	0	416	1,258	73	98	0	2	340	0	5,337
SAN FRANCISCO	0	316	0	0	0	0	0	0	0	0	0	0	0	0	14	0	21
SAN JOAQUIN	50	51	169	37	0	2,167	1,759	0	9,368	1,209	23	17,794	0	0	3,374	18	5,386
SAN LUIS OBISPO	0	0	424	384	0	222	183	0	354	84	2	828	7	8	67	28	784
SAN MATEO	0	90	13	0	0	5	3	0	2	311	0	24	0	1	92	0	661
SANTA BARBARA	0	0	1,124	1,853	0	246	459	0	564	866	27	5,969	0	0	194	1,216	9,740
SANTA CLARA	0	0	0	0	0	38	7	0	292	24	22	375	12	0	129	0	1,817
SANTA CRUZ	0	0	6	1	0	31	0	10	364	297	0	58	0	0	73	0	12,204
SHASTA	383	136	0	28	0	2,350	8	0	11	39	0	446	0	0	2,717	0	804
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	14	0	1	0	0	1,865	301	0	404	82	0	534	0	48	2,305	0	222
SOLANO	552	108	0	0	0	1,684	2	0	640	10	0	2,909	224	0	1,819	0	779
SONOMA	0	65	9	101	0	44	0	15	72	375	0	31	0	0	30	0	724
STANISLAUS	388	0	360	0	0	4,128	1,210	0	20,260	328	52	25,055	1	0	1,586	3	7,475
SUTTER	0	27,821	0	515	0	5,575	565	0	1,415	533	320	5,658	15	0	3,034	0	970
TEHAMA	0	241	0	0	0	2,191	6	0	424	110	0	1,791	0	1	103	0	147
TRINITY	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1
TULARE	999	0	0	0	129	2,473	2,699	0	4,570	1,505	120	20,566	0	222	2,195	161	13,221
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	0	1	1,112	0	168	163	0	1,630	661	0	1,580	28	0	375	19	3,474
YOLO	186	9,496	0	0	0	3,891	700	0	3,551	33	0	9,982	1	0	897	0	3,773
YUBA	0	4,939	0	569	0	746	120	0	160	100	76	652	1	0	564	0	337
** UNKNOWN **	0	794	0	60	0	1,069	10	0	158	59	0	169	0	0	179	0	962
<b>TOTAL</b>	<b>5,310</b>	<b>144,521</b>	<b>2,065</b>	<b>26,096</b>	<b>286</b>	<b>60,716</b>	<b>48,834</b>	<b>168</b>	<b>114,506</b>	<b>15,932</b>	<b>1,791</b>	<b>312,531</b>	<b>1,358</b>	<b>307</b>	<b>58,988</b>	<b>2,871</b>	<b>216,628</b>

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 JANUARY-JUNE 2016  
 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER
ALAMEDA	0	0	0	0	33	0	2	29	0	0	0	0	53
ALPINE	0	0	3	0	0	0	0	0	6	0	0	0	0
AMADOR	0	0	0	0	0	0	0	23	0	0	1	48	25
BUTTE	0	1,032	2,941	2	3,104	0	0	837	3,951	1,913	228	4,662	1,854
CALAVERAS	0	1	0	0	0	0	0	4	27	0	0	117	35
COLUSA	55	3,127	592	75	3,972	0	26	1,760	36	308	141	394	2,117
CONTRA COSTA	0	35	27	0	212	0	0	244	159	0	33	20	209
DEL NORTE	0	64	0	65	0	0	0	7	0	0	0	0	1
EL DORADO	0	1	0	0	25	0	0	23	0	0	0	6	24
FRESNO	21	184	938	1,134	1,595	0	0	8,090	833	256	1,113	2,453	13,831
GLENN	0	766	877	0	70	0	0	1,330	1,580	0	108	623	2,206
HUMBOLDT	0	33	0	0	1	0	0	474	0	4	0	0	498
IMPERIAL	0	2	2,159	1,307	1,222	0	0	5,000	44	51	117	796	1,566
INYO	0	0	17	0	0	0	0	6	0	0	11	10	12
KERN	15	315	1,112	354	4,991	0	0	6,448	1,982	1,041	601	10,092	14,955
KINGS	39	0	177	909	1,746	0	0	811	144	0	93	2,707	1,683
LAKE	0	72	2	0	214	0	7	6	0	0	0	28	43
LASSEN	0	103	86	0	0	0	0	4	189	0	0	20	161
LOS ANGELES	0	2	118	0	39	0	0	212	0	4	525	22	185
MADERA	0	0	16	87	739	0	0	968	130	0	148	494	3,407
MARIN	0	0	0	0	0	0	0	41	0	0	0	0	0
MARIPOSA	0	19	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	0	3	0	68	0	0	194	0	16	0	63	216
MERCED	0	31	476	18	735	0	0	7,007	690	2	263	1,425	11,038
MODOC	0	1,957	439	0	339	0	0	0	176	0	0	542	22
MONO	0	0	259	0	0	0	0	0	21	0	0	0	801
MONTEREY	0	174	240	524	193	0	0	5,699	514	7	619	1,368	4,330
NAPA	0	8	25	0	4	0	8	104	0	0	9	67	199
NEVADA	0	0	3	0	0	0	0	7	0	0	0	1	5
ORANGE	0	22	12	0	0	0	15	430	0	15	193	49	324
PLACER	0	46	89	0	0	0	0	91	87	0	0	83	49
PLUMAS	0	0	103	0	0	0	0	0	52	0	0	0	1
RIVERSIDE	0	8	1,077	779	1,436	0	6	614	483	68	320	499	574
SACRAMENTO	0	211	53	88	9	0	0	478	19	0	29	484	1,062
SAN BENITO	0	0	20	0	3	0	0	245	0	1	15	219	0
SAN BERNARDII	0	12	13	0	3	0	4	58	0	0	8	1	28
SAN DIEGO	0	34	0	22	0	0	29	288	7	212	331	1,379	192
SAN FRANCISCO	0	116	1	0	0	0	0	1	0	0	0	1	1
SAN JOAQUIN	0	55	59	14	2,804	0	3	5,380	734	140	153	2,274	6,205
SAN LUIS OBISPO	0	63	3	4	0	0	0	387	10	0	185	262	606
SAN MATEO	0	32	0	0	0	0	1	265	64	0	29	163	105
SANTA BARBARA	0	0	110	92	0	0	0	2,889	419	8	328	493	2,336
SANTA CLARA	0	9	1	0	12	1	4	291	0	0	6	21	396
SANTA CRUZ	0	0	22	1	0	0	1	362	1	37	44	138	176
SHASTA	0	348	657	38	9	0	0	76	1,264	0	10	24	66
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	757	689	22	277	0	0	382	1,727	0	2	563	114
SOLANO	0	1,233	3,092	27	511	2,851	0	285	0	0	59	43	353
SONOMA	0	40	11	0	126	0	8	428	0	2	60	165	362
STANISLAUS	0	45	603	0	883	0	0	3,845	1,575	380	466	3,847	7,975
SUTTER	0	1,865	626	0	603	0	0	1,113	809	47	322	2,224	490
TEHAMA	0	161	965	0	32	0	0	107	0	0	50	319	141
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	0	0	329	611	716	0	1	3,897	782	333	484	1,607	3,447
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	226	152	196	318	0	10	1,682	122	31	222	694	1,020
YOLO	0	52	74	0	2,448	0	0	1,406	50	0	20	382	2,513
YUBA	0	197	31	0	350	0	0	115	429	0	47	66	69
** UNKNOWN **	0	81	610	0	2,397	0	0	760	0	0	21	1	874
TOTAL	130	13,539	19,912	6,369	32,239	2,852	125	65,203	19,116	4,876	7,400	41,755	89,174



**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
TONNAGE OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
JANUARY-JUNE 2016**

**TONS OF AGRICULTURAL MINERALS - FARM USE**

COUNTY	COPPER	IRON	GYPSUM	LIME	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	OTHER SECONDARY/MICROS	
ALAMEDA	0	20	325	208	0	463	87	253	
ALPINE	0	0	0	0	0	0	0	0	
AMADOR	0	0	0	49	0	10	0	4	
BUTTE	26	67	2,215	328	0	1,152	54	2,215	
CALAVERAS	0	0	5	100	0	14	0	27	
COLUSA	2	5	5,695	335	0	1,345	537	8,701	
CONTRA COSTA	0	13	0	25	0	248	0	170	
DEL NORTE	2	2	4	7	0	1	0	1	
EL DORADO	0	0	0	685	0	13	0	15	
FRESNO	94	232	45,536	4,410	11,298	4,840	5,496	29,886	
GLENN	6	3	2,927	2,048	0	837	0	389	
HUMBOLDT	0	0	15	31	0	276	0	50	
IMPERIAL	1	10	475	10,922	0	726	57	1,936	
INYO	0	3	0	15	0	1	0	6	
KERN	132	147	231,606	17,575	14,345	10,222	21,501	49,760	
KINGS	11	7	143,771	5,870	546	4,002	46,184	4,407	
LAKE	0	2	77	1	0	6,186	0	33	
LASSEN	0	0	0	0	0	32	0	52	
LOS ANGELES	0	83	725	32	203	464	215	895	
MADERA	81	8	3,128	253	1,173	2,663	3,964	3,440	
MARIN	0	2	0	25	0	0	0	14	
MARIPOSA	0	0	0	0	148	8,752	0	0	
MENDOCINO	0	8	235	44	0	696	0	9	
MERCED	82	5	5,254	4,047	3,691	5,552	1,532	6,411	
MODOC	0	0	148	0	0	684	0	2,851	
MONO	0	0	0	0	0	90	0	0	
MONTEREY	4	31	448	1,079	0	195	121	2,092	
NAPA	0	5	665	600	0	109	0	2,954	
NEVADA	0	1	2	4	0	0	0	8	
ORANGE	2	155	357	15	50	82	0	507	
PLACER	4	6	27	1,083	0	14	0	34	
PLUMAS	0	0	0	0	0	0	0	2	
RIVERSIDE	0	188	1,094	20	0	101	0	2,905	
SACRAMENTO	2	42	656	100	2,200	400	2	6,651	
SAN BENITO	2	0	1,550	124	0	49	10	108	
SAN BERNARDINO	0	140	79	129	0	54	42	318	
SAN DIEGO	3	118	1,840	54	0	34	0	995	
SAN FRANCISCO	0	1	346	1	0	0	0	20	
SAN JOAQUIN	2	111	5,163	5,653	0	5,232	815	5,938	
SAN LUIS OBISPO	9	15	1,829	16	0	7	2	355	
SAN MATEO	1	190	551	159	0	298	2	109	
SANTA BARBARA	4	33	8,317	7,316	0	452	99	1,672	
SANTA CLARA	0	9	354	7	0	25	364	200	
SANTA CRUZ	1	11	1,594	2,346	0	24	3	147	
SHASTA	0	7	594	6,577	0	194	72	1,100	
SIERRA	0	0	24	0	0	0	0	0	
SISKIYOU	0	0	708	48	0	1,288	48	2,179	
SOLANO	0	1	8,303	376	1,157	188	0	104	
SONOMA	6	17	1,932	825	0	547	0	722	
STANISLAUS	13	78	9,120	2,305	0	7,860	5,479	4,696	
SUTTER	4	2	3,223	1,232	0	882	0	1,062	
TEHAMA	0	30	1,470	302	0	214	2	106	
TRINITY	0	0	2	6	0	0	0	0	
TULARE	45	134	110,538	1,563	0	2,122	9,247	9,425	
TUOLUMNE	0	0	0	107	0	0	0	0	
VENTURA	3	121	13,653	7	723	164	220	1,117	
YOLO	0	1	7,084	4	0	763	49	12,412	
YUBA	0	0	531	51	0	186	0	69	
** UNKNOWN **	42	0	366	31	0	503	0	284	
<b>TOTAL</b>	<b>584</b>	<b>2,064</b>	<b>624,561</b>	<b>79,150</b>	<b>35,534</b>	<b>71,256</b>	<b>96,204</b>	<b>169,816</b>	

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
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 JANUARY - JUNE 2016  
 TONS OF MATERIALS BY USE

COUNTY	FARM USE				NONFARM USE				TOTAL ALL				
	DRY DRY PACKAGED	FARM USE DRY BULK	FARM USE LIQUID	FARM USE TOTAL	AG MIN DRY PACKAGED	AG MIN DRY BULK	AG MIN LIQUID	AG MIN TOTAL		DRY DRY PACKAGED	NONFARM USE DRY BULK	NONFARM USE LIQUID	NONFARM USE TOTAL
ALAMEDA	1,307	305	668	2,280	850	236	270	1,356	5,166	35	1,087	6,288	8,568
ALPINE	0	23	0	23	0	0	0	0	0	0	0	0	23
AMADOR	70	128	26	224	9	49	5	63	179	0	0	179	403
BUTTE	2,160	31,297	54,702	88,159	767	3,878	1,412	6,057	1,967	0	278	2,245	90,404
CALAVERAS	124	206	67	397	6	126	14	146	912	0	6	918	1,315
COLUSA	7,298	20,974	74,266	102,538	4,165	9,581	2,874	16,620	17	3,149	0	3,166	105,704
CONTRA COSTA	484	661	3,848	4,993	73	31	352	456	4,218	0	367	4,585	9,578
DEL NORTE	191	0	960	1,151	16	0	1	17	180	0	789	969	2,120
EL DORADO	732	61	74	867	674	25	14	713	730	606	73	1,409	2,276
FRESNO	20,673	78,556	140,882	240,111	8,368	67,510	25,914	101,792	3,008	108	121	3,237	243,348
GLENN	576	17,107	29,004	46,687	133	5,766	311	6,210	46	151	0	197	46,884
HUMBOLDT	2,099	91	27	2,217	345	5	22	372	5,081	382	1,233	6,696	8,913
IMPERIAL	3,057	40,689	40,133	83,879	481	11,204	2,442	14,127	364	25	90	479	84,358
INYO	183	29	83	295	20	3	2	25	43	0	0	43	338
KERN	22,015	323,561	152,906	498,482	10,726	301,339	33,223	345,288	2,577	227	86	2,890	501,372
KINGS	4,265	160,047	76,370	240,682	1,972	154,007	48,786	204,765	361	0	35	396	241,078
LAKE	6,382	181	746	7,309	6,221	48	30	6,299	221	0	14	235	7,544
LASSEN	98	1,922	62	2,082	27	57	0	84	203	0	1	204	2,286
LOS ANGELES	4,958	1,559	2,444	8,961	802	1,035	780	2,617	18,549	48,882	1,654	69,085	78,046
MADERA	2,470	10,830	45,459	58,759	1,351	6,264	7,095	14,710	300	0	8	308	59,067
MARIN	85	31	14	130	12	25	4	41	791	8,446	132	9,369	9,499
MARIPOSA	8,771	148	0	8,919	8,752	148	0	8,900	13	0	0	13	8,932
MENOCINO	1,511	315	179	2,005	818	166	8	992	5,808	100	368	6,276	8,281
MERCED	9,006	31,472	55,477	95,955	4,673	10,978	10,923	26,574	666	20	16	702	96,657
MODOC	72	11,163	332	11,567	72	3,548	63	3,683	2	13	0	15	11,582
MONO	22	465	786	1,273	0	90	0	90	37	0	0	37	1,310
MONTEREY	8,794	23,453	53,202	85,449	1,491	1,729	750	3,970	1,055	62	118	1,235	86,684
NAPA	820	3,640	679	5,139	392	3,502	439	4,333	337	7	4	348	5,487
NEVADA	30	18	13	61	10	0	5	15	947	610	66	1,623	1,684
ORANGE	3,889	582	1,512	5,983	663	293	212	1,168	9,505	2,411	771	12,687	18,670
PLACER	275	2,286	2,287	4,848	42	1,122	4	1,168	5,181	0	261	5,442	10,290
PLUMAS	49	171	6	226	0	2	0	2	23	0	0	23	249
RIVERSIDE	5,845	7,488	15,118	28,451	841	2,578	889	4,308	42,569	14,223	291	57,083	85,534
SACRAMENTO	2,033	11,874	6,474	20,381	434	9,258	361	10,053	7,522	400	1,622	9,544	29,925
SAN BENITO	2,447	2,342	2,109	6,898	1,119	6,005	119	1,843	78	0	0	78	6,976
SAN BERNARDINO	2,128	268	326	2,722	580	165	17	762	11,916	9,751	1,165	22,832	25,554
SAN DIEGO	11,239	1,228	907	13,374	1,889	1,056	99	3,044	12,408	7,618	115	20,141	33,515
SAN FRANCISCO	503	12	324	839	351	12	5	368	402	0	186	588	1,427
SAN JOAQUIN	3,839	23,124	55,178	82,141	1,451	12,837	8,626	22,914	20,473	81	269	20,823	102,964
SAN LUIS OBISPO	1,091	2,242	3,795	7,128	113	1,763	357	2,233	961	0	101	1,062	8,190
SAN MATEO	1,746	979	446	3,171	637	624	49	1,310	3,255	354	120	3,729	6,900
SANTA BARBARA	3,420	23,416	19,980	46,816	821	16,199	863	17,883	1,452	1	60	1,513	48,329
SANTA CLARA	1,796	1,596	1,005	4,397	676	232	51	959	6,291	57	152	6,500	10,897
SANTA CRUZ	3,159	13,306	1,487	17,952	79	3,932	115	4,126	7,563	0	239	7,802	25,754
SHASTA	390	16,219	1,349	17,958	99	8,281	164	8,544	996	12	76	1,084	19,042
SIERRA	24	0	0	24	24	0	0	24	0	0	0	0	24
SISKIYOU	755	12,761	1,064	14,580	80	4,146	45	4,271	227	2,079	2	2,308	16,888
SOLANO	770	17,843	8,697	27,310	381	9,686	62	10,129	4,818	115	76	5,009	32,319
SONOMA	3,134	2,780	803	6,717	1,153	2,673	223	4,049	3,301	3,343	1,322	7,966	14,683
STANISLAUS	8,469	26,232	75,315	110,016	3,825	10,542	15,184	29,551	2,173	4	213	2,390	112,406
SUTTER	1,824	19,135	39,966	60,925	480	5,177	748	6,405	635	0	46	681	61,606
TEHAMA	134	6,002	2,777	8,913	10	2,013	101	2,124	3,162	0	45	3,207	12,120
TRINITY	8	0	6	14	8	0	0	8	501	0	29	530	544
TULARE	10,527	121,352	62,262	194,141	4,269	113,835	14,970	133,074	6,345	60	353	6,758	200,899
TUOLUMNE	107	0	0	107	107	0	0	107	239	0	1	240	347
VENTURA	4,766	15,947	9,179	29,892	1,919	13,195	894	16,008	2,838	1,955	64	4,857	34,749
YOLO	2,175	25,708	31,898	59,781	1,206	18,294	813	20,313	1,877	55	36	1,968	61,749
YUBA	438	3,358	6,609	10,405	73	745	19	837	268	0	3	271	10,676
** UNKNOWN **	647	3,559	5,224	9,430	566	466	194	1,226	5,673	139,888	825	146,386	155,816
<b>TOTAL</b>	<b>185,880</b>	<b>1,120,742</b>	<b>1,089,512</b>	<b>2,396,134</b>	<b>77,122</b>	<b>821,081</b>	<b>180,923</b>	<b>1,079,126</b>	<b>216,430</b>	<b>245,230</b>	<b>14,989</b>	<b>476,649</b>	<b>2,872,783</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**JANUARY - JUNE 2016**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NONFARM**

COUNTY	ALL NITROGEN	ALL P2O5	ALL K2O	ALL TOTAL	DRY NITROGEN	DRY P2O5	DRY K2O	DRY TOTAL	LIQUID NITROGEN	LIQUID P2O5	LIQUID K2O	LIQUID TOTAL
ALAMEDA	527	41	53	621	411	19	22	452	116	22	31	169
ALPINE	4	2	4	9	4	2	4	9	0	0	0	0
AMADOR	27	23	49	100	24	22	46	92	4	1	3	8
BUTTE	15,584	3,629	7,077	26,289	4,636	2,408	4,899	11,942	10,948	1,221	2,178	14,347
CALAVERAS	18	4	110	132	11	3	94	108	6	1	16	23
COLUSA	20,464	4,121	2,465	27,051	4,841	1,702	985	7,528	15,623	2,420	1,480	19,523
CONTRA COSTA	1,309	337	329	1,975	409	96	179	684	900	241	150	1,291
DEL NORTE	51	55	1	107	30	20	1	51	21	35	0	57
EL DORADO	33	32	27	92	24	20	24	69	9	12	3	24
FRESNO	44,530	10,005	16,216	70,751	11,873	2,040	2,991	16,904	32,657	7,965	13,225	53,847
GLENN	8,660	1,963	3,513	14,136	2,064	1,580	2,845	6,489	6,596	383	668	7,647
HUMBOLDT	776	481	499	1,755	774	481	499	1,754	1	0	0	2
IMPERIAL	28,777	7,244	2,053	38,074	15,791	2,491	1,438	19,720	12,985	4,754	615	18,355
INYO	122	15	22	159	96	15	22	133	26	0	0	26
KERN	51,525	9,271	21,827	82,623	12,872	1,924	10,350	25,146	38,653	7,347	11,477	57,477
KINGS	12,176	2,016	3,169	17,362	4,402	284	1,304	5,990	7,774	1,732	1,866	11,372
LAKE	240	97	57	394	89	24	21	134	151	74	36	260
LASSEN	488	69	284	841	459	69	259	788	28	0	25	53
LOS ANGELES	3,741	291	430	4,462	3,131	157	333	3,621	610	134	97	841
MADERA	13,748	1,298	3,809	18,855	4,239	385	598	5,222	9,509	913	3,211	13,633
MARIN	37	41	0	78	35	41	0	76	2	0	0	2
MARIPOSA	12	7	1	20	12	7	1	20	0	0	0	0
MENDOCINO	335	219	251	804	300	194	248	742	34	25	3	62
MERCED	23,519	7,594	12,318	43,431	10,230	4,314	6,273	20,817	13,289	3,280	6,045	22,614
MODOC	2,073	735	399	3,206	2,018	695	399	3,111	55	40	0	95
MONO	63	135	814	1,012	63	135	28	226	0	0	786	786
MONTEREY	44,739	6,207	5,596	56,542	21,052	641	2,993	24,685	23,687	5,567	2,604	31,857
NAPA	214	124	236	574	167	96	116	380	46	27	120	194
NEVADA	26	9	6	40	23	8	6	36	3	1	0	4
ORANGE	2,800	449	437	3,686	2,353	242	203	2,798	447	207	234	888
PLACER	1,320	146	143	1,609	895	79	77	1,051	425	67	66	558
PLUMAS	68	54	32	153	66	54	32	152	2	0	0	2
RIVERSIDE	8,218	2,087	1,269	11,575	4,788	982	915	6,685	3,431	1,105	354	4,890
SACRAMENTO	3,613	642	1,350	5,605	1,652	270	462	2,384	1,961	373	888	3,221
SAN BENITO	3,757	256	227	4,240	2,889	11	88	2,988	868	245	139	1,252
SAN BERNARDINO	1,277	70	32	1,379	1,154	45	29	1,228	123	25	3	151
SAN DIEGO	5,931	320	1,078	7,329	5,691	284	1,059	7,034	240	36	19	295
SAN FRANCISCO	109	25	2	136	43	25	2	69	66	0	0	66
SAN JOAQUIN	15,515	6,384	7,881	29,780	3,585	552	2,521	6,658	11,930	5,832	5,360	23,122
SAN LUIS OBISPO	1,489	403	824	2,716	511	64	320	895	978	339	504	1,821
SAN MATEO	791	272	238	1,301	684	89	222	995	107	183	16	306
SANTA BARBARA	13,133	2,996	2,980	19,109	6,499	691	1,230	8,420	6,635	2,305	1,750	10,689
SANTA CLARA	2,070	299	409	2,779	1,798	254	276	2,328	273	45	133	451
SANTA CRUZ	12,381	374	273	13,029	11,897	128	213	12,238	484	247	60	790
SHASTA	3,176	511	841	4,527	2,602	460	813	3,875	573	51	28	652
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	2,216	998	1,433	4,646	1,959	885	1,424	4,268	257	113	9	379
SOLANO	4,187	2,978	412	7,577	1,984	2,014	164	4,161	2,203	965	248	3,416
SONOMA	892	488	471	1,852	797	426	333	1,557	95	62	138	295
STANISLAUS	21,360	4,468	11,132	36,960	4,944	1,411	5,557	11,911	16,416	3,057	5,576	25,049
SUTTER	11,967	2,017	2,239	16,223	3,962	1,143	1,221	6,326	8,005	874	1,018	9,897
TEHAMA	1,508	652	323	2,482	749	554	289	1,592	758	98	34	890
TRINITY	2	0	0	2	0	0	0	0	2	0	0	2
TULARE	23,824	4,642	5,006	33,472	4,361	1,991	1,947	8,299	19,463	2,651	3,059	25,173
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	4,973	2,039	1,552	8,565	2,412	713	596	3,721	2,562	1,326	955	4,843
YOLO	11,206	2,287	2,743	16,236	3,331	294	662	4,287	7,874	1,993	2,081	11,949
YUBA	2,218	290	380	2,887	733	160	320	1,212	1,485	130	60	1,675
** UNKNOWN **	1,853	1,908	884	4,645	794	1,009	84	1,887	1,059	899	800	2,758
<b>TOTAL</b>	<b>435,671</b>	<b>94,121</b>	<b>126,205</b>	<b>655,997</b>	<b>173,215</b>	<b>34,698</b>	<b>58,036</b>	<b>265,950</b>	<b>262,456</b>	<b>59,423</b>	<b>68,169</b>	<b>390,048</b>

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 TONS OF NITROGEN MATERIALS - FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLYSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER
ALAMEDA	0	0	0	0	0	75	11	0	84	1	0	359	0	0	57	0	673
ALPINE	0	0	0	0	0	12	0	0	0	0	0	0	0	0	2	0	0
AMADOR	0	0	0	0	0	30	12	0	7	0	0	7	0	0	15	0	55
BUTTE	0	33,889	0	47	0	16,006	1,345	0	1,723	293	0	10,692	0	0	1,110	0	1,711
CALAVERAS	0	0	0	0	0	48	14	0	21	0	0	13	0	0	0	0	8
COLUSA	798	44,750	26	0	0	5,877	1,386	0	9,201	545	55	14,274	1	0	2,810	1,040	4,394
CONTRA COSTA	38	111	21	0	0	279	349	0	1,421	73	0	2,536	1	0	294	80	605
DEL NORTE	0	107	0	0	0	0	0	0	0	81	0	0	0	0	0	20	4
EL DORADO	0	14	0	0	0	16	0	0	25	20	0	3	0	0	6	0	43
FRESNO	411	1,186	0	310	125	3,255	18,206	122	22,895	2,356	588	70,309	116	100	4,277	503	36,430
GLENN	0	21,356	0	0	0	5,532	47	0	2,280	34	0	5,888	0	0	400	0	1,594
HUMBOLDT	0	0	0	0	0	8	0	0	0	211	0	2	0	0	0	0	1,788
IMPERIAL	20	3	70	10,618	0	3,509	47	0	2,558	210	657	35,064	345	0	41,422	6,026	42,332
INYO	0	0	0	25	0	243	627	0	34	7	0	12,839	0	0	71	0	4,083
KERN	1,324	0	5	60	47	1,091	9,864	0	11,159	742	6	77,836	752	0	2,862	132	47,021
KINGS	1,320	9	0	0	29	288	2,282	0	1,724	1,280	3	22,643	0	0	4,252	6	6,752
LAKE	0	0	0	0	0	119	0	0	276	17	0	215	0	0	90	0	91
LASSEN	0	0	0	0	0	1,096	0	0	102	38	0	13	0	0	705	0	70
LOS ANGELES	4	75	0	733	0	259	82	0	1	129	0	331	0	0	1,565	75	4,173
MADERA	47	149	0	1,379	0	339	8,419	0	8,532	454	24	17,594	4	0	695	529	44,211
MARIN	0	0	0	0	0	6	4	0	0	0	0	6	0	0	0	0	44
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	0	0	0	0	14	0	0	70	58	0	25	0	0	14	0	2,265
MERCED	64	133	0	272	0	2,334	5,654	0	12,396	528	39	20,863	0	0	1,612	9	39,178
MODOC	4	0	0	0	0	2,283	276	0	17	0	0	938	0	0	3,324	0	8
MONO	0	0	0	0	0	66	0	0	0	0	0	1	0	0	33	0	7
MONTEREY	0	0	20	17,463	0	2,256	3,016	74	10,148	1,258	32	10,648	336	0	2,903	675	47,205
NAPA	4	0	0	0	0	4	0	0	72	249	0	12	0	0	17	0	579
NEVADA	0	0	0	0	0	1	0	0	0	0	0	12	0	0	1	0	33
ORANGE	0	0	5	105	0	328	54	0	795	499	0	99	41	0	518	3	4,304
PLACER	0	1,936	197	5	0	222	125	0	7	24	0	60	0	0	71	0	825
PLUMAS	0	0	0	0	0	13	0	0	0	0	0	6	0	0	14	0	48
RIVERSIDE	489	0	0	4,343	0	1,098	73	2	5,142	1,737	0	8,822	144	0	1,796	2	8,124
SACRAMENTO	681	1,207	0	26	0	467	70	0	491	1,075	0	3,312	4	0	1,340	0	2,094
SAN BENITO	0	0	0	14	0	73	13	0	1,730	18	0	129	1	0	25	0	5,705
SAN BERNARDII	0	0	0	0	0	117	0	0	46	382	0	700	0	0	531	0	1,800
SAN DIEGO	0	0	141	99	0	316	6	0	726	2,293	105	333	0	2	778	0	10,703
SAN FRANCISCO	8	316	0	0	0	83	0	0	0	0	0	0	0	0	14	0	23
SAN JOAQUIN	151	59	279	39	0	3,440	3,254	0	12,041	1,669	112	24,789	0	0	5,239	32	9,553
SAN LUIS OBISPO	0	50	883	767	0	468	299	0	1,205	137	5	1,298	20	15	118	47	1,426
SAN MATEO	0	90	19	0	0	30	7	0	2	621	0	24	0	1	185	0	961
SANTA BARBARA	1	0	2,707	3,290	0	502	1,434	0	1,329	1,660	57	11,885	0	0	349	2,739	13,447
SANTA CLARA	0	0	0	0	0	63	7	0	381	80	22	437	22	0	257	0	2,935
SANTA CRUZ	0	0	11	2	0	43	0	60	691	452	0	91	0	0	124	0	20,549
SHASTA	383	136	9	55	0	3,627	10	0	14	152	0	736	0	0	3,550	0	878
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	61	0	1	0	0	3,145	531	0	1,051	88	0	1,065	0	48	2,889	0	576
SOLANO	1,384	465	0	0	0	3,037	7	0	754	22	0	3,919	224	0	2,070	0	1,311
SONOMA	0	65	16	201	0	59	0	16	164	618	0	78	0	0	68	0	2,405
STANISLAUS	1,370	24	0	471	0	6,534	1,380	0	26,792	422	56	35,977	18	0	2,539	3	17,080
SUTTER	20	30,244	0	515	0	9,325	626	0	1,988	906	324	6,376	75	0	3,388	0	1,272
TEHAMA	158	273	0	0	0	2,337	43	0	534	167	0	2,175	0	1	177	0	213
TRINITY	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1
TULARE	1,167	0	0	0	157	4,471	3,386	0	5,584	2,095	1,044	27,884	2	222	3,246	1,182	18,051
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	0	140	2,411	0	239	971	0	4,103	1,344	0	3,070	41	1	988	25	25,233
YOLO	326	11,880	0	0	0	5,912	975	0	4,872	36	1	11,777	5	0	1,158	0	4,686
YUBA	0	5,161	0	569	0	1,306	251	0	174	102	76	694	1	0	680	0	428
** UNKNOWN **	1,965	2,116	0	62	587	2,233	117	1	185	68	90	30,443	2	0	10,304	12	1,067
<b>TOTAL</b>	<b>12,198</b>	<b>155,804</b>	<b>4,550</b>	<b>43,881</b>	<b>945</b>	<b>94,534</b>	<b>65,280</b>	<b>275</b>	<b>155,552</b>	<b>25,251</b>	<b>3,296</b>	<b>479,302</b>	<b>2,155</b>	<b>390</b>	<b>110,953</b>	<b>13,140</b>	<b>441,055</b>

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 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER
ALAMEDA	0	1	0	0	34	0	4	68	0	0	0	3	64
ALPINE	0	0	3	0	0	0	0	0	6	0	0	0	0
AMADOR	0	0	0	0	0	0	0	23	38	0	3	75	26
BUTTE	0	1,052	3,260	2	3,221	0	0	946	6,333	2,464	277	13,862	2,352
CALAVERAS	0	1	0	0	0	0	0	7	27	0	0	117	40
COLUSA	523	3,266	1,318	151	4,207	0	26	2,300	36	334	151	4,025	3,270
CONTRA COSTA	0	35	55	0	1,270	0	0	618	269	0	39	28	417
DEL NORTE	0	64	0	110	0	0	0	116	0	0	0	0	74
EL DORADO	0	2	1	0	25	0	1	34	0	0	0	8	39
FRESNO	23	263	3,081	2,436	4,715	88	0	15,918	1,362	667	1,401	11,506	26,978
GLENN	0	864	1,888	0	139	0	0	1,472	1,674	0	108	3,110	2,582
HUMBOLDT	0	49	0	0	1	0	0	923	0	4	1	0	987
IMPERIAL	0	3	19,700	2,158	4,009	0	0	10,933	202	233	117	2,087	2,880
INYO	0	0	47	0	0	0	0	14	7	0	11	26	24
KERN	15	315	1,895	781	7,856	0	0	10,797	2,826	1,490	898	15,484	21,278
KINGS	245	0	999	1,604	3,412	0	0	1,322	375	16	186	4,816	3,117
LAKE	0	90	6	0	360	0	11	26	10	8	0	28	86
LASSEN	0	103	119	0	0	0	0	31	220	0	0	49	162
LOS ANGELES	4	11	118	0	78	0	3	320	24	13	957	77	229
MADERA	0	0	81	165	916	0	0	5,324	203	56	211	2,531	13,128
MARIN	0	0	0	0	0	0	0	45	0	0	0	0	13
MARIPOSA	0	23	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	30	14	0	69	0	0	1,204	10	38	0	125	1,305
MERCED	0	31	1,231	22	1,173	0	0	13,862	2,647	38	362	9,618	15,341
MODOC	0	2,717	690	32	722	0	0	0	213	0	0	697	101
MONO	0	0	261	0	0	0	0	0	22	0	0	0	801
MONTEREY	0	274	709	634	408	0	0	8,383	1,287	7	1,223	3,931	8,075
NAPA	0	23	77	0	26	0	27	349	0	1	13	230	536
NEVADA	0	0	3	0	0	0	0	31	0	0	0	1	9
ORANGE	0	59	12	0	0	0	41	1,006	27	19	289	117	806
PLACER	0	49	130	0	0	0	0	101	95	0	0	87	51
PLUMAS	0	0	103	0	0	0	0	0	52	0	0	0	1
RIVERSIDE	0	14	3,807	1,240	2,592	0	12	1,793	878	192	434	942	1,291
SACRAMENTO	0	407	83	111	11	0	1	944	340	0	67	826	1,902
SAN BENITO	0	0	20	0	3	0	0	625	1	1	1	35	466
SAN BERNARDINO	0	16	13	0	7	0	8	131	0	0	12	2	79
SAN DIEGO	0	61	23	553	1	0	58	559	12	484	534	2,610	308
SAN FRANCISCO	0	116	1	0	0	0	1	1	0	0	1	1	2
SAN JOAQUIN	0	82	121	20	4,538	0	40	7,268	2,599	140	230	8,960	11,438
SAN LUIS OBISPO	0	122	8	13	27	0	0	851	20	0	531	538	1,275
SAN MATEO	0	32	84	0	4	2	3	952	101	0	50	307	158
SANTA BARBARA	0	0	162	92	0	0	0	5,158	928	32	581	954	4,347
SANTA CLARA	2	11	6	0	19	1	13	828	0	0	19	82	1,121
SANTA CRUZ	0	0	35	1	0	0	2	517	6	37	63	268	254
SHASTA	0	441	767	91	13	0	0	90	1,553	0	20	158	73
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	1,336	1,129	102	402	0	0	737	2,008	0	2	803	185
SOLANO	0	1,899	5,285	1,827	1,591	2,851	2	546	728	0	63	624	724
SONOMA	0	53	24	0	175	1	28	1,168	0	2	105	415	1,379
STANISLAUS	0	66	945	0	1,200	1	1	5,573	6,508	1,550	720	16,418	14,589
SUTTER	0	2,069	814	0	650	0	6	1,354	1,124	51	367	3,921	816
TEHAMA	0	328	1,002	0	39	0	0	145	177	0	56	2,291	221
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	2	0	1,758	1,095	1,274	0	1	5,151	2,256	446	634	5,920	5,362
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	632	350	396	943	0	10	2,812	218	55	512	1,482	1,810
YOLO	0	350	578	0	2,578	0	3	1,744	412	0	23	4,024	3,738
YUBA	0	208	114	0	355	0	0	123	491	0	53	503	82
** UNKNOWN **	7,185	104	647	1,579	8,518	0	0	2,419	14	5,042	981	10,327	1,583
TOTAL	7,999	17,672	53,577	15,215	57,581	2,944	302	117,662	38,339	13,420	12,306	135,049	157,975

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 TONS OF AGRICULTURAL MINERALS - FARM USE

COUNTY	COPPER	IRON	GYPNUM	LIME	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	OTHER SECONDARY/MICROS	
ALAMEDA	1,700	32	4,315	208	0	469	214	17,913	
ALPINE	0	0	0	0	0	0	0	0	
AMADOR	0	0	8	198	0	13	0	4	
BUTTE	28	141	4,120	1,674	0	1,542	123	2,433	
CALAVERAS	0	0	675	100	0	47	0	29	
COLUSA	51	8	44,754	5,685	0	2,274	1,036	12,186	
CONTRA COSTA	0	14	2,686	55	0	624	0	421	
DEL NORTE	2	2	4	8	0	1	0	4	
EL DORADO	0	0	25	840	0	42	0	35	
FRESNO	18,115	311	399,658	22,249	32,247	14,912	25,451	131,641	
GLENN	6	15	14,347	4,929	0	1,960	0	609	
HUMBOLDT	0	0	15	80	0	276	0	130	
IMPERIAL	3	61	908	27,319	0	1,975	176	4,202	
INYO	0	3	9	91	0	2	0	11	
KERN	272	209	521,033	32,448	30,510	28,990	37,005	124,829	
KINGS	12	8	331,571	19,063	8,042	66,070	87,342	11,165	
LAKE	0	2	172	50	0	6,188	0	33	
LASSEN	0	0	277	76	0	73	0	52	
LOS ANGELES	1	152	843	137	235	564	1,467	1,376	
MADERA	84	10	20,577	5,093	10,419	6,244	7,109	41,485	
MARIN	0	2	0	25	0	0	0	14	
MARIPOSA	0	0	0	11	4,307	8,752	0	0	
MENDOCINO	0	9	701	58	0	988	0	102	
MERCED	85	7	55,305	18,517	3,851	11,879	4,010	46,653	
MODOC	0	0	810	98	13,200	892	0	4,288	
MONO	0	0	0	0	0	92	1	0	
MONTEREY	10	110	4,698	22,154	0	884	560	3,628	
NAPA	0	5	4,953	2,447	0	109	0	8,156	
NEVADA	0	2	47	17	0	0	0	10	
ORANGE	2	259	651	29	64	174	0	820	
PLACER	4	7	83	1,306	0	19	0	135	
PLUMAS	0	0	244	25	0	0	0	2	
RIVERSIDE	0	282	1,744	42	16	487	86	3,945	
SACRAMENTO	4	47	6,214	2,697	4,213	1,547	2	11,007	
SAN BENITO	2	0	5,475	656	0	73	10	209	
SAN BERNARDINO	0	157	629	138	0	406	95	417	
SAN DIEGO	6	249	3,584	230	0	38	269	1,625	
SAN FRANCISCO	0	1	548	1	0	0	0	20	
SAN JOAQUIN	5	143	46,011	26,853	0	13,977	1,930	30,089	
SAN LUIS OBISPO	14	30	2,593	93,930	0	11	174	577	
SAN MATEO	2	411	615	676	0	320	4	221	
SANTA BARBARA	4	49	17,487	14,620	0	1,077	197	5,772	
SANTA CLARA	0	17	3,056	37	0	33	367	704	
SANTA CRUZ	10	19	6,586	3,631	0	219	4	265	
SHASTA	4	24	2,940	14,705	0	520	139	1,725	
SIERRA	0	0	49	0	0	0	0	0	
SISKIYOU	0	0	3,487	710	0	2,024	122	3,428	
SOLANO	0	3	21,259	4,036	2,696	1,374	0	436	
SONOMA	12	29	5,023	2,330	0	565	0	1,991	
STANISLAUS	20	91	74,965	27,279	0	15,269	6,461	7,993	
SUTTER	27	2	11,624	1,510	0	1,680	0	1,655	
TEHAMA	2	32	3,758	381	0	222	3	144	
TRINITY	0	0	2	6	0	0	0	0	
TULARE	748	187	172,471	4,057	338	18,994	20,138	21,025	
TUOLUMNE	0	0	0	136	0	3	0	0	
VENTURA	6	252	19,263	7	1,323	302	4,315	2,613	
YOLO	0	2	30,734	1,671	0	2,331	49	32,868	
YUBA	0	0	1,830	795	0	192	0	73	
** UNKNOWN **	42	4	1,238	5,445	0	2,114	1,537	1,878	
<b>TOTAL</b>	<b>21,283</b>	<b>3,400</b>	<b>1,856,674</b>	<b>371,569</b>	<b>111,461</b>	<b>219,833</b>	<b>200,396</b>	<b>543,046</b>	

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 JULY 2015 - JUNE 2016  
 TONS OF MATERIALS BY USE

COUNTY	FARM USE				NONFARM USE				TOTAL ALL				
	DRY PACKAGED	FARM USE DRY BULK	FARM USE LIQUID	FARM USE TOTAL	AG MIN DRY PACKAGED	AG MIN DRY BULK	AG MIN LIQUID	AG MIN TOTAL		DRY PACKAGED	NONFARM USE DRY BULK	NONFARM USE LIQUID	NONFARM USE TOTAL
ALAMEDA	6,480	1,140	18,665	26,285	5,773	1,067	18,011	24,851	7,886	67	1,900	9,853	36,138
ALPINE	0	23	0	23	0	0	0	0	1,072	0	0	1,072	1,095
AMADOR	107	366	41	514	17	198	8	223	291	0	0	291	805
BUTTE	3,227	49,788	57,632	110,647	925	7,530	1,606	10,061	2,747	4	758	3,509	114,156
CALAVERAS	746	279	122	1,147	628	176	47	851	927	0	7	934	2,081
COLUSA	8,966	77,819	83,973	170,758	4,646	57,209	4,139	65,994	17	4,375	0	4,392	175,150
CONTRA COSTA	679	4,017	7,643	12,339	112	2,855	833	3,800	6,779	6	605	7,390	19,729
DEL NORTE	379	0	1,005	1,384	20	0	1	21	258	2	843	1,103	2,487
EL DORADO	814	238	127	1,179	702	200	40	942	976	8,667	146	9,789	10,968
FRESNO	56,970	512,061	305,191	874,222	37,384	478,758	128,442	644,584	5,448	114	197	5,759	879,981
GLENN	723	38,071	32,040	70,834	225	21,186	455	21,866	47	1,504	104	1,655	72,489
HUMBOLDT	4,276	122	77	4,475	457	5	39	501	5,567	730	1,655	7,952	12,427
IMPERIAL	4,474	136,615	78,893	219,982	1,066	27,638	5,940	34,644	1,009	25	135	1,169	221,151
INYO	4,280	423	13,471	18,174	28	83	5	116	43	0	0	43	18,217
KERN	37,817	747,139	206,878	991,834	21,195	698,656	55,445	775,296	4,145	300	111	4,556	996,390
KINGS	53,302	391,271	135,347	579,920	50,696	378,351	94,193	523,240	646	0	36	682	580,602
LAKE	6,454	453	971	7,878	6,242	173	30	6,445	243	0	26	269	8,147
LASSEN	100	2,895	191	3,186	29	449	0	478	204	0	1	205	3,391
LOS ANGELES	8,021	1,825	4,190	14,036	1,465	1,191	2,119	4,775	39,432	92,551	2,882	134,865	148,901
MADERA	28,042	46,987	120,983	196,012	20,840	39,745	30,436	91,021	588	0	15	603	196,615
MARIN	114	31	14	159	12	25	4	41	1,251	16,159	267	17,677	17,836
MARIPOSA	8,771	4,322	0	13,093	8,752	4,318	0	13,070	14	0	0	14	13,107
MENOCINO	5,844	1,014	241	7,099	1,172	643	43	1,858	6,772	443	826	8,041	15,140
MERCED	37,629	128,179	102,500	268,308	27,994	78,147	34,166	140,307	1,115	40	26	1,181	269,489
MODOC	72	29,623	1,615	31,310	72	19,153	63	19,288	82	13	0	95	31,405
MONO	22	474	788	1,284	0	92	1	93	39	0	1	40	1,324
MONTEREY	12,546	59,945	80,518	153,009	2,931	27,243	1,870	32,044	1,883	262	146	2,291	155,300
NAPA	1,294	15,502	1,093	17,889	559	14,433	678	15,670	436	14	11	461	18,350
NEVADA	103	43	21	167	57	13	6	76	1,166	1,674	106	2,946	3,113
ORANGE	6,713	1,499	2,934	11,146	1,181	589	229	1,999	19,660	4,157	934	24,751	35,897
PLACER	460	2,745	2,334	5,539	161	1,389	4	1,554	6,897	0	384	7,281	12,820
PLUMAS	49	453	6	508	0	271	0	271	26	0	0	26	534
RIVERSIDE	11,654	14,413	25,502	51,569	1,662	3,578	1,362	6,602	73,119	32,159	1,561	106,839	158,408
SACRAMENTO	3,545	28,425	9,221	41,191	985	24,028	718	25,731	11,246	932	2,858	15,036	56,227
SAN BENITO	3,545	7,777	3,962	15,284	2,167	4,037	221	6,425	80	0	0	80	15,364
SAN BERNARDINO	3,555	1,153	978	5,686	754	991	97	1,842	20,393	23,221	1,678	45,292	50,978
SAN DIEGO	20,014	4,150	2,554	26,718	3,794	1,777	430	6,001	25,758	10,738	235	36,731	63,449
SAN FRANCISCO	710	94	333	1,137	553	12	5	570	858	0	286	1,144	2,281
SAN JOAQUIN	9,650	103,529	101,923	215,102	5,749	78,444	34,815	119,008	27,118	87	435	27,640	242,742
SAN LUIS OBISPO	2,362	97,126	7,964	107,452	420	96,219	690	97,329	1,652	5	114	1,771	109,223
SAN MATEO	3,788	1,620	474	5,882	1,082	1,098	69	2,249	5,366	617	169	6,152	12,034
SANTA BARBARA	4,970	47,125	38,870	90,965	1,192	36,062	1,930	39,184	2,733	18	106	2,857	93,822
SANTA CLARA	4,245	4,392	1,864	10,501	1,736	2,315	163	4,214	10,665	94	277	11,036	21,537
SANTA CRUZ	4,268	27,806	2,394	34,468	451	10,118	165	10,734	9,284	908	413	10,605	45,073
SHASTA	557	30,413	1,843	32,813	133	19,656	268	20,057	1,277	12	128	1,417	34,230
SIERRA	24	25	0	49	24	25	0	49	0	0	0	0	49
SISKIYOU	1,058	21,773	3,099	25,930	255	9,397	119	9,771	233	2,079	4	2,316	28,246
SOLANO	1,171	41,073	16,893	59,137	693	28,975	136	29,804	6,904	262	485	7,651	66,788
SONOMA	4,755	9,547	2,688	16,990	1,596	7,983	371	9,950	5,171	6,372	2,013	13,556	30,546
STANISLAUS	11,759	153,137	107,419	272,315	5,229	106,560	20,289	132,078	3,527	32	354	3,913	276,228
SUTTER	2,051	35,046	45,632	82,729	599	14,660	1,239	16,498	820	8	58	886	83,615
TEHAMA	227	11,044	3,608	14,879	28	4,391	123	4,542	5,251	0	51	5,302	20,181
TRINITY	8	0	6	14	8	0	0	8	929	0	54	983	997
TULARE	16,797	217,044	96,507	330,348	9,173	196,873	31,912	237,958	10,424	60	487	10,971	341,319
TUOLUMNE	139	0	0	139	139	0	0	139	370	0	2	372	511
VENTURA	8,618	24,375	42,874	75,867	2,925	18,913	6,243	28,081	8,469	5,324	126	13,919	89,786
YOLO	2,704	79,848	40,194	122,746	1,602	64,447	1,606	67,655	2,809	58	41	2,908	125,654
YUBA	456	6,795	7,010	14,261	80	2,791	19	2,890	312	0	5	317	14,578
** UNKNOWN **	19,238	24,785	55,886	99,909	884	8,068	3,306	12,258	39,589	209,571	22,429	271,589	371,498
<b>TOTAL</b>	<b>441,342</b>	<b>3,247,877</b>	<b>1,879,202</b>	<b>5,568,421</b>	<b>239,254</b>	<b>2,603,204</b>	<b>485,149</b>	<b>3,327,607</b>	<b>392,023</b>	<b>423,665</b>	<b>46,491</b>	<b>862,179</b>	<b>6,430,600</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**JULY 2015 - JUNE 2016**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NONFARM**

COUNTY	ALL NITROGEN	ALL P2O5	ALL K2O	ALL TOTAL	DRY NITROGEN	DRY P2O5	DRY K2O	DRY TOTAL	LIQUID NITROGEN	LIQUID P2O5	LIQUID K2O	LIQUID TOTAL
ALAMEDA	849	82	66	996	605	51	28	684	244	30	38	312
ALPINE	4	2	4	9	4	2	4	9	0	0	0	0
AMADOR	73	23	88	184	67	22	84	172	7	1	4	12
BUTTE	17,178	3,948	13,747	34,872	5,607	2,647	11,191	19,445	11,571	1,301	2,556	15,428
CALAVERAS	28	7	115	150	16	3	94	113	11	4	21	36
COLUSA	24,341	5,403	5,444	35,188	6,274	2,610	3,492	12,376	18,067	2,793	1,952	22,812
CONTRA COSTA	2,126	1,085	610	3,820	591	223	300	1,114	1,534	863	310	2,707
DEL NORTE	52	195	74	321	30	129	74	233	21	66	0	88
EL DORADO	63	44	43	150	50	28	33	111	14	16	10	39
FRESNO	71,994	21,166	34,634	127,794	20,487	6,476	12,777	39,739	51,507	14,690	21,857	88,055
GLENN	9,868	2,674	5,189	17,731	2,581	2,224	4,475	9,280	7,287	450	714	8,451
HUMBOLDT	1,830	933	988	3,752	1,815	926	986	3,727	15	8	2	24
IMPERIAL	80,009	23,706	4,147	107,862	57,079	14,134	3,242	74,455	22,930	9,572	905	33,408
INYO	8,369	38	46	8,453	4,185	38	46	4,270	4,184	0	0	4,184
KERN	80,927	15,555	31,744	128,226	30,989	4,795	17,406	53,190	49,938	10,760	14,338	75,036
KINGS	18,869	4,141	5,916	28,926	6,884	983	3,074	10,942	11,985	3,158	2,842	17,984
LAKE	327	175	108	609	148	45	52	245	179	129	56	364
LASSEN	681	113	319	1,113	628	86	293	1,007	54	27	26	107
LOS ANGELES	5,462	418	708	6,588	4,655	265	587	5,507	807	153	122	1,081
MADERA	53,973	5,975	14,725	74,673	5,221	4,066	4,090	13,377	48,752	1,909	10,635	61,296
MARIN	48	45	13	106	45	45	13	103	2	0	0	2
MARIPOSA	262	91	43	396	262	91	43	396	0	0	0	0
MENDOCINO	2,316	1,241	1,382	4,939	2,272	1,211	1,371	4,855	44	29	11	84
MERCED	50,636	14,996	21,944	87,577	30,123	5,329	13,829	49,281	20,514	9,667	8,115	38,296
MODOC	3,731	1,429	709	5,869	3,428	1,178	692	5,299	302	250	17	570
MONO	65	136	814	1,015	65	136	28	229	0	0	786	786
MONTEREY	58,737	9,288	11,352	79,377	26,813	1,576	5,555	33,944	31,924	7,712	5,797	45,433
NAPA	661	415	657	1,733	572	360	484	1,416	89	55	173	317
NEVADA	38	33	10	80	32	32	10	73	6	1	0	7
ORANGE	4,977	1,044	1,013	7,034	4,157	557	467	5,181	820	487	546	1,853
PLACER	1,421	178	152	1,750	986	109	85	1,180	435	69	67	571
PLUMAS	70	54	32	156	69	54	32	154	2	0	0	2
RIVERSIDE	15,182	5,332	2,522	23,037	9,663	3,070	1,685	14,418	5,520	2,262	837	8,619
SACRAMENTO	5,265	1,217	2,591	9,072	2,656	640	1,171	4,467	2,609	577	1,420	4,605
SAN BENITO	6,077	636	485	7,198	4,654	183	184	5,021	1,423	453	301	2,177
SAN BERNARDINO	2,364	147	85	2,597	2,045	106	68	2,219	319	41	17	378
SAN DIEGO	11,893	909	1,962	14,763	11,462	566	1,932	13,960	431	343	30	803
SAN FRANCISCO	135	25	3	164	63	25	2	90	73	0	1	74
SAN JOAQUIN	24,094	8,919	17,609	50,623	7,001	1,222	8,063	16,286	17,093	7,698	9,546	34,337
SAN LUIS OBISPO	2,836	896	1,790	5,521	837	173	677	1,686	1,999	723	1,113	3,835
SAN MATEO	1,201	1,005	394	2,600	1,093	821	378	2,292	108	184	16	308
SANTA BARBARA	20,405	5,292	5,643	31,341	8,556	1,205	2,469	12,231	11,849	4,087	3,174	19,110
SANTA CLARA	3,301	847	1,170	5,318	2,873	716	660	4,250	428	130	510	1,068
SANTA CRUZ	20,853	537	427	21,818	20,136	228	336	20,700	718	309	91	1,117
SHASTA	4,049	631	1,093	5,772	3,371	547	1,062	4,980	678	84	31	792
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	3,608	1,783	1,792	7,183	2,885	1,183	1,762	5,830	722	600	30	1,353
SOLANO	6,766	5,884	1,527	14,177	2,642	2,454	1,177	6,274	4,124	3,430	350	7,903
SONOMA	2,698	1,264	1,633	5,595	1,623	1,121	1,062	3,807	1,075	143	571	1,788
STANISLAUS	37,493	6,486	27,361	71,340	13,135	2,301	17,282	32,718	24,358	4,185	10,079	38,622
SUTTER	14,186	2,415	3,624	20,224	5,219	1,503	2,127	8,849	8,967	912	1,497	11,376
TEHAMA	1,961	745	1,497	4,203	881	643	1,423	2,947	1,080	102	74	1,256
TRINITY	2	0	0	2	0	0	0	0	2	0	0	2
TULARE	33,103	7,098	10,056	50,257	6,660	3,517	6,076	16,254	26,443	3,580	3,980	34,004
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	28,662	3,686	2,932	35,281	5,116	1,257	1,218	7,591	23,546	2,429	1,714	27,690
YOLO	14,204	2,992	6,007	23,204	4,298	881	3,138	8,318	9,906	2,112	2,869	14,887
YUBA	2,568	345	651	3,564	937	213	573	1,723	1,631	132	78	1,841
** UNKNOWN **	20,636	9,830	8,296	38,762	7,096	5,935	5,802	18,833	13,540	3,895	2,494	19,929
<b>TOTAL</b>	<b>783,529</b>	<b>183,552</b>	<b>257,985</b>	<b>1,225,066</b>	<b>341,644</b>	<b>80,941</b>	<b>145,264</b>	<b>567,849</b>	<b>441,885</b>	<b>102,612</b>	<b>112,720</b>	<b>657,217</b>



# FERTILIZING MATERIALS TONNAGE REPORT

JULY – DECEMBER 2016



FEED, FERTILIZER, AND LIVESTOCK DRUGS REGULATORY SERVICES  
DIVISION OF INSPECTION SERVICES

SACRAMENTO, CALIFORNIA 95814

## FOREWORD

This publication summarizes State and County tonnage sales/distributions of commercial fertilizers, specialty fertilizers, and agricultural minerals, as required by Section 14622 of the Food and Agricultural Code.

The tonnage, by grade and analysis, is computed from licensee reports filed with the California Department of Food and Agriculture, in accordance with Section 14621 of the Food and Agricultural Code.

Licensees are required to report, semi-annually, the tonnage of commercial fertilizers, specialty fertilizers, and/or agricultural minerals sold/distributed in California, as defined in the Food and Agricultural Code, Sections 14512, 14522 and 14563. The tonnage of materials is to be reported by the last licensee selling/distributing to unlicensed purchasers.

The tonnage report is a breakdown of the raw materials for nitrogen, phosphorus, potassium, and agricultural mineral materials. The amounts of nitrogen, phosphorus, and potassium ingredients, in differing formulas, are determined by the last licensee, and that amount is placed in the appropriate category.

Keeping the above in mind, this report is only as accurate as the reports received in this office; therefore, the figures may vary from publication to publication.

If you have any questions, please contact our office at the number below.

Sincerely,

Original Signed by Amadou Ba

Amadou Ba, Ph.D,  
Environmental Program Manager II

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**JANUARY 2015 - DECEMBER 2016**  
**TOTAL TONS OF MATERIALS REPORTED FOR THE PERIOD INDICATED**

<b>CODE</b>	<b>MATERIAL NAME</b>	<b>JAN-JUNE 2015</b>	<b>JAN-JUNE 2016</b>	<b>JULY-DEC 2015</b>	<b>JULY-DEC 2016</b>	<b>JAN-DEC 2015</b>	<b>JAN-DEC 2016</b>
0	IDENTIFIED BY GRADE	468,042	478,720	395,711	324,124	863,753	802,844
0	N-P-K GRADES	373,576	371,005	345,694	253,102	719,270	624,107
2	ANHYDROUS AMMONIA	14,636	5,310	6,888	6,126	21,524	11,436
6	AQUA AMMONIA	134,926	144,521	11,283	14,064	146,209	158,585
10	AMMONIUM NITRATE	1,888	2,065	2,485	2,660	4,373	4,725
12	AMMONIUM NITRATE SOLUTION	27,070	26,096	17,785	23,881	44,855	49,977
20	AMMONIUM POLYSULFIDE	1,923	286	659	1,637	2,582	1,923
24	AMMONIUM SULFATE	79,267	60,716	33,818	32,044	113,085	92,760
31	AMMONIUM THIOSULFATE	52,437	48,834	16,446	15,518	68,883	64,352
35	CALCIUM AMMONIUM NITRATE	201,443	114,506	41,046	56,284	242,489	170,790
43	CALCIUM NITRATE	24,258	15,932	9,725	8,946	33,983	24,878
58	NITROGEN SOLUTION 28%	4,515	1,791	1,505	9,413	6,020	11,204
60	NITROGEN SOLUTION 32%	421,528	312,531	166,771	147,387	588,299	459,918
62	SODIUM NITRATE	1,448	1,358	797	273	2,245	1,631
64	SULFUR COATED UREA	10	307	83	569	93	876
66	UREA	73,231	58,988	51,965	54,919	125,196	113,907
67	UREA SOLUTION	3,543	2,871	10,269	3,373	13,812	6,244
203	DIAMMONIUM PHOSPHATE	1,931	130	7,869	14	9,800	144
207	AMMONIUM PHOSPHATE SULFATE	20,297	13,539	4,133	3,157	24,430	16,696
209	MONOAMMONIUM PHOSPHATE	26,491	19,912	33,665	33,716	60,156	53,628
248	PHOSPHORIC ACID	10,476	6,369	8,859	6,223	19,335	12,592
249	LIQUID AMMONIUM POLYPHOSPHATE	41,844	32,239	25,342	17,488	67,186	49,727
263	SUPERPHOSPHATE, NORMAL	378	2,852	92	2,214	470	5,066
267	SUPERPHOSPHATE, TRIPLE	162	125	177	356	339	481
428	MURIATE OF POTASH	21,566	19,116	19,223	28,006	40,789	47,122
443	SULFATE OF POTASH MAGNESIA	19,464	4,876	8,544	14,303	28,008	19,179
453	POTASSIUM NITRATE	11,187	7,400	4,906	1,741	16,093	9,141
463	POTASSIUM SULFATE	69,498	41,755	93,294	56,601	162,792	98,356
601	BLOOD MEAL	640	168	107	101	747	269
667	SEWAGE SLUDGE	31,352	35,534	75,927	44,851	107,279	80,385
723	COPPER - ALL MATERIALS	743	584	20,699	516	21,442	1,100
731	IRON - ALL MATERIALS	2,917	2,064	1,336	1,517	4,253	3,581
732	GYPHUM - ALL MATERIALS	722,298	624,561	1,232,113	966,480	1,954,411	1,591,041
770	SULFUR	139,676	71,256	148,207	101,418	287,883	172,674
774	SULFURIC ACID	96,542	96,204	104,562	56,403	201,104	152,607
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	189,552	169,816	373,230	177,383	562,782	347,199
907	LIMING MATERIALS - ALL MATERIALS	136,428	79,150	292,419	155,940	428,847	235,090
0	TOTAL	3,427,183	2,873,487	3,567,634	2,622,748	6,994,817	5,496,235

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CODE	MATERIAL NAME	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE
		2015 N	2015 P2O5	2015 K2O	2016 N	2016 P2O5	2016 K2O
0	IDENTIFIED BY GRADE	195,555	72,508	105,513	216,628	65,203	89,174
2	ANHYDROUS AMMONIA	12,002	0	0	4,354	0	0
6	AQUA AMMONIA	26,985	0	0	28,904	0	0
10	AMMONIUM NITRATE	642	0	0	702	0	0
12	AMMONIUM NITRATE SOLUTION	5,414	0	0	5,219	0	0
20	AMMONIUM POLYSULFIDE	385	0	0	57	0	0
24	AMMONIUM SULFATE	16,646	0	0	12,750	0	0
31	AMMONIUM THIOSULFATE	6,292	0	0	5,860	0	0
35	CALCIUM AMMONIUM NITRATE	34,245	0	0	19,466	0	0
43	CALCIUM NITRATE	3,639	0	0	2,390	0	0
58	NITROGEN SOLUTION 28%	1,264	0	0	501	0	0
60	NITROGEN SOLUTION 32%	134,889	0	0	100,010	0	0
62	SODIUM NITRATE	232	0	0	217	0	0
64	SULFUR COATED UREA	4	0	0	111	0	0
66	UREA	33,686	0	0	27,134	0	0
67	UREA SOLUTION	709	0	0	574	0	0
203	DIAMMONIUM PHOSPHATE	348	888	0	23	60	0
207	AMMONIUM PHOSPHATE SOLUTION	3,248	4,059	0	2,166	2,708	0
209	MONOAMMONIUM PHOSPHATE	2,914	13,775	0	2,190	10,354	0
248	PHOSPHORIC ACID	0	5,657	0	0	3,439	0
249	LIQUID AMMONIUM POLYPHOSPHATE	4,184	14,227	0	3,224	10,961	0
263	SUPERPHOSPHATE, NORMAL	0	83	0	0	627	0
267	SUPERPHOSPHATE, TRIPLE	0	75	0	0	58	0
428	MURIATE OF POTASH	0	0	12,940	0	0	11,470
443	SULFATE OF POTASH MAGNESIA	0	0	4,282	0	0	1,073
453	POTASSIUM NITRATE	1,566	0	4,922	1,036	0	3,256
463	POTASSIUM SULFATE	0	0	34,749	0	0	20,878
601	BLOOD MEAL	77	0	0	20	0	0
667	SEWAGE SLUDGE	1,881	627	314	2,132	711	355
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPHOSUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	486,806	111,900	162,719	435,671	94,121	126,205

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CODE	MATERIAL NAME	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC
		2015 N	2015 P2O5	2015 K2O	2016 N	2016 P2O5	2016 K2O
0	IDENTIFIED BY GRADE	224,434	52,459	68,801	130,794	52,498	69,810
2	ANHYDROUS AMMONIA	5,648	0	0	5,023	0	0
6	AQUA AMMONIA	2,257	0	0	2,813	0	0
10	AMMONIUM NITRATE	845	0	0	904	0	0
12	AMMONIUM NITRATE SOLUTION	3,557	0	0	4,776	0	0
20	AMMONIUM POLYSULFIDE	132	0	0	327	0	0
24	AMMONIUM SULFATE	7,102	0	0	6,729	0	0
31	AMMONIUM THIOSULFATE	1,974	0	0	1,862	0	0
35	CALCIUM AMMONIUM NITRATE	6,978	0	0	9,568	0	0
43	CALCIUM NITRATE	1,459	0	0	1,342	0	0
58	NITROGEN SOLUTION 28%	421	0	0	2,636	0	0
60	NITROGEN SOLUTION 32%	53,367	0	0	47,164	0	0
62	SODIUM NITRATE	128	0	0	44	0	0
64	SULFUR COATED UREA	30	0	0	205	0	0
66	UREA	23,904	0	0	25,263	0	0
67	UREA SOLUTION	2,054	0	0	675	0	0
203	DIAMMONIUM PHOSPHATE	1,416	3,620	0	3	6	0
207	AMMONIUM PHOSPHATE SOLUTION	661	827	0	505	631	0
209	MONOAMMONIUM PHOSPHATE	3,703	17,506	0	3,709	17,532	0
248	PHOSPHORIC ACID	0	4,784	0	0	3,360	0
249	LIQUID AMMONIUM POLYPHOSPHATE	2,534	8,616	0	1,749	5,946	0
263	SUPERPHOSPHATE, NORMAL	0	20	0	0	487	0
267	SUPERPHOSPHATE, TRIPLE	0	81	0	0	164	0
428	MURIATE OF POTASH	0	0	11,534	0	0	16,804
443	SULFATE OF POTASH MAGNESIA	0	0	1,880	0	0	3,147
453	POTASSIUM NITRATE	687	0	2,159	244	0	766
463	POTASSIUM SULFATE	0	0	46,647	0	0	28,301
601	BLOOD MEAL	13	0	0	12	0	0
667	SEWAGE SLUDGE	4,556	1,519	759	2,691	897	449
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPHUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	347,858	89,431	131,779	249,037	81,522	119,275

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**TOTAL TONS OF NUTRIENTS REPORTED FOR THE PERIOD INDICATED**

CODE	MATERIAL NAME	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
		2015 N	2015 P2O5	2015 K2O	2016 N	2016 P2O5	2016 K2O
0	IDENTIFIED BY GRADE	419,989	124,967	174,314	347,422	117,701	158,984
2	ANHYDROUS AMMONIA	17,650	0	0	9,378	0	0
6	AQUA AMMONIA	29,242	0	0	31,717	0	0
10	AMMONIUM NITRATE	1,487	0	0	1,607	0	0
12	AMMONIUM NITRATE SOLUTION	8,971	0	0	9,995	0	0
20	AMMONIUM POLYSULFIDE	516	0	0	385	0	0
24	AMMONIUM SULFATE	23,748	0	0	19,480	0	0
31	AMMONIUM THIOSULFATE	8,266	0	0	7,722	0	0
35	CALCIUM AMMONIUM NITRATE	41,223	0	0	29,034	0	0
43	CALCIUM NITRATE	5,097	0	0	3,732	0	0
58	NITROGEN SOLUTION 28%	1,686	0	0	3,137	0	0
60	NITROGEN SOLUTION 32%	188,256	0	0	147,174	0	0
62	SODIUM NITRATE	359	0	0	261	0	0
64	SULFUR COATED UREA	33	0	0	315	0	0
66	UREA	57,590	0	0	52,397	0	0
67	UREA SOLUTION	2,762	0	0	1,249	0	0
203	DIAMMONIUM PHOSPHATE	1,764	4,508	0	26	66	0
207	AMMONIUM PHOSPHATE SOLUTION	3,909	4,886	0	2,671	3,339	0
209	MONOAMMONIUM PHOSPHATE	6,617	31,281	0	5,899	27,887	0
248	PHOSPHORIC ACID	0	10,441	0	0	6,800	0
249	LIQUID AMMONIUM POLYPHOSPHATE	6,719	22,843	0	4,973	16,907	0
263	SUPERPHOSPHATE, NORMAL	0	103	0	0	1,115	0
267	SUPERPHOSPHATE, TRIPLE	0	156	0	0	221	0
428	MURIATE OF POTASH	0	0	24,473	0	0	28,273
443	SULFATE OF POTASH MAGNESIA	0	0	6,162	0	0	4,219
453	POTASSIUM NITRATE	2,253	0	7,081	1,280	0	4,022
463	POTASSIUM SULFATE	0	0	81,396	0	0	49,178
601	BLOOD MEAL	90	0	0	32	0	0
667	SEWAGE SLUDGE	6,437	2,146	1,073	4,823	1,608	804
723	COPPER - ALL MATERIALS	0	0	0	0	0	0
731	IRON - ALL MATERIALS	0	0	0	0	0	0
732	GYPHOSUM -ALL MATERIALS	0	0	0	0	0	0
770	SULFUR	0	0	0	0	0	0
774	SULFURIC ACID	0	0	0	0	0	0
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	0	0	0	0	0	0
907	LIMING MATERIALS - ALL MATERIALS	0	0	0	0	0	0
0	TOTAL	834,664	201,331	294,499	684,708	175,643	245,480

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 TONS OF NITROGEN MATERIALS - FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER
ALAMEDA	0	0	0	0	0	64	3	0	0	0	8	56	0	479	14	0	432
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	6	0	0	3	0	0	4	0	0	2	0	9
BUTTE	0	30	0	18	0	3,334	16	0	160	13	0	3,207	0	0	143	0	2,075
CALAVERAS	0	0	0	0	0	27	1	0	5	0	0	0	0	0	0	0	3
COLUSA	150	3,568	0	0	0	6,067	9	0	647	14	0	3,392	0	0	1,069	0	656
CONTRA COSTA	0	0	0	0	1,098	91	186	0	771	14	54	551	0	0	58	0	370
DEL NORTE	0	27	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
EL DORADO	0	0	0	0	0	4	0	0	3	17	0	0	0	0	5	0	45
FRESNO	307	632	0	410	134	1,345	3,579	0	12,201	1,598	1,019	27,416	0	0	977	54	13,623
GLENN	0	736	0	0	0	1,663	2	0	122	5	1	1,508	0	0	84	0	923
HUMBOLDT	0	0	0	0	0	4	0	0	0	82	0	0	0	0	0	0	237
IMPERIAL	629	1,596	0	3,918	0	1,254	3	0	1,782	496	404	22,887	1	0	21,767	153	5,715
INYO	0	0	0	0	0	32	0	0	19	1	0	4	0	0	39	0	54
KERN	778	139	0	140	24	627	2,499	0	4,376	472	86	17,342	133	0	1,326	10	10,481
KINGS	1,555	7	0	0	111	91	315	0	447	217	0	7,367	0	0	552	3	2,087
LAKE	0	0	0	0	0	13	0	0	138	4	0	114	0	0	72	0	210
LASSEN	0	0	0	0	0	186	0	0	264	0	0	1	0	0	242	0	75
LOS ANGELES	0	26	0	76	0	201	10	0	0	86	765	88	0	0	119	14	1,040
MADERA	2	138	0	290	1	166	864	0	3,546	178	60	7,361	0	0	50	148	5,504
MARIN	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	4
MARIPOSA	0	0	0	0	0	0	0	0	0	182	0	0	0	0	0	0	0
MENDOCINO	0	0	0	0	0	2	0	0	54	0	0	48	0	0	34	0	141
MERCED	90	98	1	343	44	1,101	2,516	0	3,211	72	3,145	6,007	0	0	300	2	19,874
MODOC	0	0	0	0	0	591	137	0	24	0	0	338	0	0	310	0	61
MONO	0	0	0	0	0	15	0	0	0	0	0	2	0	0	7	0	2
MONTEREY	0	3,300	12	11,831	0	1,511	1,592	91	7,912	587	1,142	4,593	133	12	1,233	268	20,998
NAPA	4	0	0	0	0	28	0	0	79	154	0	4	0	0	5	0	908
NEVADA	0	0	0	0	0	2	0	0	0	0	0	4	0	0	7	0	46
ORANGE	0	4	0	26	0	171	11	0	315	367	338	70	1	1	191	2	2,186
PLACER	0	128	0	0	0	79	5	0	35	3	6	3	0	0	3	0	197
PLUMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
RIVERSIDE	103	23	81	2,147	0	453	63	0	2,943	892	1,289	4,392	0	57	664	73	2,694
SACRAMENTO	148	216	0	0	0	371	14	0	129	46	1	1,232	0	0	377	229	870
SAN BENITO	0	0	0	79	0	10	0	0	995	21	0	135	0	0	1	0	2,237
SAN BERNARDINO	0	0	0	0	0	66	0	0	16	136	89	15	0	0	308	0	597
SAN DIEGO	0	0	64	71	0	202	0	0	333	789	780	173	0	7	219	1	1,689
SAN FRANCISCO	0	0	0	0	0	64	1	0	0	0	0	3	0	0	9	0	24
SAN JOAQUIN	37	1	176	2	46	858	1,278	0	2,505	307	13	7,771	0	0	1,160	0	3,383
SAN LUIS OBISPO	0	25	472	420	0	201	107	0	544	77	29	804	0	6	24	87	283
SAN MATEO	0	0	6	0	0	29	0	0	0	218	0	27	0	0	1	0	458
SANTA BARBARA	0	0	1,216	2,526	0	272	688	0	714	716	88	5,617	0	0	18,392	1,028	5,299
SANTA CLARA	0	0	0	9	0	32	26	0	301	66	2	22	5	2	59	22	1,431
SANTA CRUZ	0	0	6	18	0	13	3	8	132	99	0	69	0	0	4	0	7,645
SHASTA	230	0	0	0	0	368	0	0	16	0	0	330	0	0	904	0	62
SIERRA	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	3
SISKIYOU	19	0	0	0	0	508	250	0	526	0	0	519	0	0	340	0	108
SOLANO	799	29	0	0	0	1,155	19	0	414	7	19	1,152	0	0	1,048	0	508
SONOMA	0	26	10	51	0	62	0	2	226	294	0	29	0	0	33	0	784
STANISLAUS	919	11	0	169	0	1,302	96	0	4,934	34	8	9,937	0	0	525	0	2,938
SUTTER	0	1,029	0	0	0	3,314	91	0	362	28	0	781	0	0	333	0	354
TEHAMA	0	48	0	0	0	120	2	0	27	0	0	439	0	0	72	0	102
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	278	0	0	0	179	1,238	787	0	1,084	269	39	8,343	0	0	887	1,269	4,634
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	0	616	1,304	0	32	84	0	1,773	376	28	366	0	5	48	10	3,171
YOLO	78	2,119	0	0	0	2,031	245	0	2,156	1	0	2,628	0	0	772	0	1,785
YUBA	0	108	0	0	0	664	0	0	17	4	0	121	0	0	121	0	66
** UNKNOWN **	0	0	0	33	0	0	16	0	23	2	0	109	0	0	9	0	1,728
<b>TOTAL</b>	<b>6,126</b>	<b>14,064</b>	<b>2,660</b>	<b>23,881</b>	<b>1,637</b>	<b>32,044</b>	<b>15,518</b>	<b>101</b>	<b>56,284</b>	<b>8,946</b>	<b>9,413</b>	<b>147,387</b>	<b>273</b>	<b>569</b>	<b>54,919</b>	<b>3,373</b>	<b>130,788</b>

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 TONS OF PHOSPHOROUS AND POTASSIUM MATERIALS - FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHOROUS MATERIALS - ALL OTHER	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER
ALAMEDA	0	6	0	0	2	0	6	90	3	0	0	25	42
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	0	0	4	0	0	7	0	14
BUTTE	0	83	100	0	98	0	0	100	3,368	1,122	36	2,266	548
CALAVERAS	0	0	0	0	0	0	0	5	26	0	0	0	6
COLUSA	0	409	160	202	1,409	0	0	470	0	1,178	21	1,573	794
CONTRA COSTA	0	0	37	87	342	0	0	218	41	0	12	165	215
DEL NORTE	0	0	0	46	0	0	0	106	0	0	1	0	82
EL DORADO	0	0	0	0	0	0	4	12	0	0	0	5	11
FRESNO	0	107	1,549	958	2,030	0	4	8,675	2,850	1,677	176	7,410	12,915
GLENN	0	55	76	0	2	0	0	24	67	0	1	1,606	285
HUMBOLDT	0	6	0	0	0	0	0	39	41	0	1	0	7
IMPERIAL	0	5	19,207	1,523	3,797	0	0	6,817	353	499	7	1,545	1,766
INYO	0	0	19	0	0	0	0	10	21	0	0	11	14
KERN	0	0	1,371	539	2,879	0	1	5,765	2,873	6,837	55	3,820	12,198
KINGS	12	0	1,309	540	1,471	0	0	1,865	793	129	33	1,778	1,043
LAKE	0	13	0	0	23	0	0	12	11	43	0	54	59
LASSEN	0	43	65	0	0	0	0	2	51	0	0	22	65
LOS ANGELES	0	10	97	0	24	0	2	237	27	44	8	369	18
MADERA	0	0	377	64	178	0	0	1,169	1,690	509	41	2,601	2,811
MARIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	1	64	0	154	0	0	58	45	2	0	117	95
MERCED	0	15	799	5	92	0	0	4,297	3,807	92	77	3,584	2,366
MODOC	0	475	373	0	80	0	0	0	31	0	0	71	81
MONO	0	0	38	0	0	0	0	26	15	0	0	0	0
MONTEREY	0	176	733	840	188	0	0	5,565	725	299	216	4,985	9,009
NAPA	0	31	40	0	6	0	22	624	0	0	18	124	1,031
NEVADA	0	1	0	0	0	0	0	22	0	0	1	25	2
ORANGE	0	32	0	47	0	0	45	530	3	20	16	428	509
PLACER	0	0	12	0	0	0	0	16	0	1	0	21	2
PLUMAS	0	2	13	0	0	0	1	0	0	0	0	0	0
RIVERSIDE	0	8	2,326	580	1,032	0	21	1,531	240	398	54	689	602
SACRAMENTO	0	203	79	0	5	0	5	381	903	0	45	65	856
SAN BENITO	0	0	7	0	0	0	0	653	0	0	1	95	473
SAN BERNARDINO	0	6	14	0	0	0	3	40	39	0	7	1	19
SAN DIEGO	0	13	0	22	0	0	113	297	59	185	51	1,261	109
SAN FRANCISCO	0	0	2	0	0	0	0	3	0	0	0	0	1
SAN JOAQUIN	0	0	128	9	1,677	0	0	1,852	1,266	82	48	3,902	5,530
SAN LUIS OBISPO	0	124	8	0	10	0	0	62	10	0	146	164	1,163
SAN MATEO	0	0	0	0	0	0	6	92	119	0	16	0	99
SANTA BARBARA	0	0	65	34	4	0	0	3,032	415	12	92	688	2,271
SANTA CLARA	0	0	0	0	0	0	12	326	13	3	7	68	560
SANTA CRUZ	0	0	7	2	4	0	0	218	6	0	22	57	154
SHASTA	0	162	125	13	2	0	0	3	342	0	18	48	0
SIERRA	0	5	0	14	0	0	0	0	0	0	0	0	2
SISKIYOU	0	103	268	0	67	0	0	144	71	0	0	253	330
SOLANO	0	452	399	0	230	2,214	4	1,513	437	0	1	724	533
SONOMA	0	37	60	0	64	0	66	739	25	0	47	390	1,065
STANISLAUS	0	17	1,430	0	883	0	0	1,640	5,097	719	161	8,186	4,177
SUTTER	0	129	201	0	29	0	9	42	125	0	7	735	67
TEHAMA	0	43	32	0	13	0	0	30	156	0	4	1,426	128
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	2	0	1,454	514	648	0	0	1,086	1,298	420	188	3,785	1,639
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	242	145	174	8	0	0	1,148	101	32	42	720	802
YOLO	0	123	519	10	37	0	32	746	443	0	15	489	1,268
YUBA	0	20	3	0	0	0	0	3	0	0	1	195	7
** UNKNOWN **	0	0	5	0	0	0	0	159	0	0	41	55	1,961
<b>TOTAL</b>	<b>14</b>	<b>3,157</b>	<b>33,716</b>	<b>6,223</b>	<b>17,488</b>	<b>2,214</b>	<b>356</b>	<b>52,498</b>	<b>28,006</b>	<b>14,303</b>	<b>1,741</b>	<b>56,601</b>	<b>69,804</b>



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 TONS OF AGRICULTURAL MINERALS - FARM USE

COUNTY	COPPER	IRON	GYPNUM	LIME	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	OTHER SECONDARY/MICROS	
ALAMEDA	1	11	378	21	0	1	25	116	
ALPINE	0	0	0	0	0	0	0	0	
AMADOR	0	0	0	48	0	3	0	1	
BUTTE	45	1	2,667	2,676	0	317	109	423	
CALAVERAS	0	0	690	0	0	39	0	3	
COLUSA	56	3	32,284	7,212	0	808	378	6,436	
CONTRA COSTA	0	14	502	0	0	434	0	233	
DEL NORTE	0	0	0	0	0	0	0	0	
EL DORADO	0	2	4	781	0	35	0	38	
FRESNO	40	112	249,361	5,596	17,956	9,347	3,431	29,547	
GLENN	0	0	10,626	2,784	0	252	0	463	
HUMBOLDT	0	3	9	557	0	26	0	46	
IMPERIAL	4	68	360	11,891	0	892	768	2,269	
INYO	0	1	13	10	0	1	4	12	
KERN	148	52	174,551	22,838	3,964	18,872	3,601	53,434	
KINGS	1	3	204,574	9,374	0	27,706	36,342	13,342	
LAKE	0	0	461	0	0	2,735	0	11	
LASSEN	0	0	532	25	0	90	48	26	
LOS ANGELES	0	59	484	35	50	16	1,003	707	
MADERA	5	6	6,310	1,079	563	4,191	218	2,080	
MARIN	0	0	0	0	0	0	0	0	
MARIPOSA	0	0	0	0	11,063	0	0	0	
MENDOCINO	0	5	475	631	0	1,447	0	51	
MERCED	0	3	29,649	7,838	0	6,319	270	9,469	
MODOC	0	0	422	25	6,235	376	27	1,677	
MONO	0	0	261	72	0	125	0	0	
MONTEREY	33	91	6,188	16,242	0	285	376	3,789	
NAPA	0	0	3,997	591	0	2	0	6,359	
NEVADA	0	1	0	0	0	4	0	1	
ORANGE	1	113	318	52	61	38	11	781	
PLACER	0	1	49	395	0	1	0	103	
PLUMAS	0	0	0	0	0	0	0	0	
RIVERSIDE	1	143	1,638	36	0	93	74	1,878	
SACRAMENTO	0	55	574	1,059	1,155	408	0	5,705	
SAN BENITO	0	0	3,612	186	0	0	0	102	
SAN BERNARDINO	0	26	1,348	14	0	27	0	452	
SAN DIEGO	5	122	1,421	162	0	7	25	1,411	
SAN FRANCISCO	0	0	0	3	0	0	0	68	
SAN JOAQUIN	2	22	28,593	14,115	0	6,364	809	3,700	
SAN LUIS OBISPO	2	8	410	3	0	33	2	281	
SAN MATEO	2	226	9	45	0	30	0	292	
SANTA BARBARA	2	17	13,295	6,817	0	116	147	3,537	
SANTA CLARA	1	10	2,758	66	0	11	3	505	
SANTA CRUZ	5	10	4,653	867	0	2	2	126	
SHASTA	1	3	1,772	9,516	0	146	34	319	
SIERRA	0	0	141	0	0	0	0	3	
SISKIYOU	0	0	2,521	49	0	403	237	466	
SOLANO	0	5	24,477	1,964	1,345	702	0	52	
SONOMA	4	34	3,581	1,675	0	66	0	740	
STANISLAUS	42	12	65,336	21,473	0	5,019	570	3,363	
SUTTER	42	0	7,014	1,688	0	229	0	617	
TEHAMA	0	2	2,226	1,361	0	27	0	145	
TRINITY	0	0	0	0	0	0	0	0	
TULARE	66	41	52,648	3,036	0	11,840	7,244	6,033	
TUOLUMNE	0	0	0	32	0	0	0	0	
VENTURA	5	232	3,025	3	2,459	55	518	1,221	
YOLO	1	0	18,540	385	0	1,478	127	14,780	
YUBA	1	0	1,664	610	0	0	0	29	
** UNKNOWN **	0	0	59	0	0	0	0	141	
<b>TOTAL</b>	<b>516</b>	<b>1,517</b>	<b>966,480</b>	<b>155,938</b>	<b>44,851</b>	<b>101,418</b>	<b>56,403</b>	<b>177,383</b>	

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**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NONFARM**

COUNTY	ALL NITROGEN	ALL P2O5	ALL K2O	ALL TOTAL	DRY NITROGEN	DRY P2O5	DRY K2O	DRY TOTAL	LIQUID NITROGEN	LIQUID P2O5	LIQUID K2O	LIQUID TOTAL
ALAMEDA	646	95	56	797	579	93	50	722	67	2	7	75
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	14	4	17	35	8	2	5	15	6	2	12	20
BUTTE	3,947	202	3,964	8,113	2,720	97	3,876	6,693	1,227	105	88	1,420
CALAVERAS	10	5	22	36	7	0	16	22	3	5	6	14
COLUSA	4,684	1,223	1,849	7,756	1,984	231	1,195	3,410	2,699	992	654	4,346
CONTRA COSTA	1,022	401	327	1,750	269	126	144	539	754	274	183	1,211
DEL NORTE	6	131	82	219	0	106	82	189	5	25	0	30
EL DORADO	51	14	14	79	49	10	10	68	3	4	4	11
FRESNO	28,147	11,070	18,956	58,173	9,909	5,511	11,960	27,379	18,238	5,560	6,996	30,794
GLENN	1,980	75	1,129	3,184	1,196	54	1,056	2,305	784	22	73	879
HUMBOLDT	251	40	32	323	251	40	32	323	0	0	0	0
IMPERIAL	27,949	18,919	2,863	49,732	17,444	15,212	2,610	35,266	10,506	3,707	254	14,466
INYO	85	20	32	137	56	20	32	108	29	0	0	29
KERN	19,317	7,828	17,400	44,544	5,397	3,706	12,573	21,676	13,919	4,122	4,827	22,868
KINGS	6,461	3,343	2,451	12,255	1,334	1,832	1,597	4,763	5,127	1,511	854	7,492
LAKE	311	22	102	435	247	15	62	323	64	8	40	112
LASSEN	285	44	107	436	165	42	107	314	119	2	0	121
LOS ANGELES	1,435	300	232	1,967	1,190	280	221	1,691	246	19	12	277
MADERA	8,883	1,471	5,261	15,616	4,584	1,151	4,303	10,038	4,299	320	958	5,577
MARIN	6	0	0	6	4	0	0	4	2	0	0	2
MARIPOSA	691	221	111	1,023	664	221	111	996	27	0	0	27
MENDOCINO	204	144	181	529	158	84	161	404	46	59	20	125
MERCED	24,186	4,749	6,496	35,432	18,634	3,001	5,044	26,680	5,552	1,748	1,452	8,752
MODOC	956	441	197	1,594	897	418	182	1,498	59	22	15	96
MONO	13	46	9	68	13	46	9	67	1	0	0	1
MONTEREY	28,574	6,499	12,097	47,171	19,897	4,114	8,270	32,281	8,677	2,385	3,828	14,890
NAPA	970	663	1,101	2,734	936	636	1,010	2,582	34	27	91	152
NEVADA	51	22	15	88	30	21	14	65	21	1	1	23
ORANGE	2,555	584	737	3,875	2,217	343	458	3,018	337	240	279	857
PLACER	252	22	13	286	218	19	12	249	34	3	1	38
PLUMAS	26	8	0	33	26	8	0	33	0	0	0	0
RIVERSIDE	6,458	3,416	1,208	11,081	3,555	2,128	1,003	6,687	2,902	1,287	205	4,394
SACRAMENTO	1,874	490	1,462	3,825	990	253	803	2,046	884	237	659	1,779
SAN BENITO	2,472	657	521	3,649	2,207	586	409	3,202	265	71	112	448
SAN BERNARDINO	809	50	46	905	689	48	45	782	120	2	1	122
SAN DIEGO	2,329	363	838	3,530	2,105	330	816	3,250	224	34	22	281
SAN FRANCISCO	43	4	1	48	41	4	1	46	2	0	0	2
SAN JOAQUIN	7,456	2,494	8,280	18,229	1,488	711	3,835	6,034	5,968	1,782	4,445	12,195
SAN LUIS OBISPO	1,030	94	1,315	2,439	314	49	210	573	715	45	1,105	1,866
SAN MATEO	510	95	177	782	423	94	153	670	88	1	24	113
SANTA BARBARA	17,095	3,086	2,907	23,087	10,822	892	1,358	13,072	6,273	2,194	1,549	10,015
SANTA CLARA	1,545	332	606	2,482	1,375	237	273	1,884	170	95	333	598
SANTA CRUZ	7,720	224	196	8,140	7,486	62	138	7,685	234	162	58	455
SHASTA	894	108	237	1,240	595	100	237	933	299	8	0	307
SIERRA	5	9	2	16	2	1	2	5	3	8	0	11
SISKIYOU	725	327	499	1,551	490	195	439	1,124	235	132	60	426
SOLANO	2,561	2,405	1,171	6,137	1,132	1,809	789	3,729	1,430	596	382	2,408
SONOMA	949	830	1,296	3,074	716	675	924	2,315	233	155	372	759
STANISLAUS	8,551	2,687	11,557	22,795	1,391	1,424	8,869	11,684	7,160	1,263	2,688	11,112
SUTTER	1,782	186	513	2,481	1,195	167	506	1,868	587	19	7	613
TEHAMA	327	60	936	1,324	102	53	866	1,022	225	6	70	302
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	9,071	2,341	4,485	15,897	2,370	1,304	3,280	6,954	6,701	1,037	1,206	8,943
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	4,376	1,418	1,273	7,066	2,345	543	496	3,384	2,031	875	776	3,682
YOLO	4,374	1,073	1,785	7,232	2,222	936	863	4,021	2,152	137	922	3,211
YUBA	329	9	105	442	239	8	105	351	90	1	0	91
** UNKNOWN **	1,786	162	2,007	3,954	1,690	110	261	2,060	96	52	1,746	1,894
<b>TOTAL</b>	<b>249,037</b>	<b>81,522</b>	<b>119,275</b>	<b>449,835</b>	<b>137,066</b>	<b>50,158</b>	<b>81,881</b>	<b>269,104</b>	<b>111,971</b>	<b>31,365</b>	<b>37,395</b>	<b>180,731</b>

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 TONS OF MATERIALS BY USE

COUNTY	FARM USE DRY PACKAGED	FARM USE DRY BULK	FARM USE LIQUID	FARM USE TOTAL	AG MIN DRY PACKAGED	AG MIN DRY BULK	AG MIN LIQUID	AG MIN TOTAL	NONFARM USE DRY PACKAGED	NONFARM USE DRY BULK	NONFARM USE LIQUID	NONFARM USE TOTAL	TOTAL ALL
ALAMEDA	1,365	170	248	1,783	406	35	112	553	3,876	1	1,071	4,948	6,731
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	12	61	28	101	1	48	3	52	138	0	1	139	240
BUTTE	963	17,866	4,126	22,955	753	5,202	283	6,238	537	0	486	1,023	23,978
CALAVERAS	690	54	61	805	690	0	42	732	102	0	133	235	1,040
COLUSA	2,932	53,644	12,389	68,965	2,034	43,773	1,370	47,177	0	1,896	0	1,896	70,861
CONTRA COSTA	660	918	3,915	5,493	133	476	574	1,183	2,546	7	345	2,898	8,391
DEL NORTE	191	0	73	264	0	0	0	0	28	0	417	445	709
EL DORADO	146	776	44	966	55	774	31	860	185	48	75	308	1,274
FRESNO	16,303	325,313	75,420	417,036	11,315	290,747	13,328	315,390	2,187	1	259	2,447	419,483
GLENN	151	18,374	2,760	21,285	89	13,874	162	14,125	1	0	2	3	21,288
HUMBOLDT	510	275	22	807	117	251	22	390	2,838	325	616	3,779	4,586
IMPERIAL	1,787	68,774	41,815	112,376	445	12,368	3,439	16,252	264	13	84	361	112,737
INYO	124	100	41	265	10	22	9	41	0	0	0	0	265
KERN	5,703	294,031	52,497	352,231	3,690	264,105	9,665	277,460	1,717	71	38	1,826	354,057
KINGS	5,164	254,943	52,939	313,046	3,664	249,592	38,086	291,342	190	21	0	211	313,257
LAKE	2,909	737	327	3,973	2,803	394	10	3,207	43	0	23	66	4,039
LASSEN	6	1,341	390	1,737	2	670	49	721	47	0	2	49	1,786
LOS ANGELES	2,876	1,248	1,491	5,615	814	492	1,048	2,354	13,448	43,539	2,322	59,309	64,924
MADERA	5,167	20,541	16,450	42,158	2,529	10,427	1,496	14,452	122	42	10	174	42,332
MARIN	0	4	5	9	0	0	0	0	363	12,032	64	12,459	12,468
MARIPOSA	0	11,063	182	11,245	0	11,063	0	11,063	274	0	26	300	11,545
MENDOCINO	1,617	1,511	296	3,424	1,520	1,082	7	2,609	2,202	131	487	2,820	6,244
MERCED	5,401	74,297	25,788	105,486	4,101	44,628	4,819	53,548	235	0	12	247	105,733
MODOC	24	10,983	327	11,334	24	8,707	31	8,762	0	56	0	56	11,390
MONO	0	561	2	563	0	458	0	458	0	0	1	1	564
MONTEREY	4,630	64,983	35,342	104,955	1,209	23,826	1,969	27,004	927	15	83	1,025	105,980
NAPA	915	12,662	450	14,027	337	10,385	227	10,949	112	0	2	114	14,141
NEVADA	52	34	30	116	2	0	4	6	302	330	69	701	817
ORANGE	3,216	2,073	1,399	6,688	737	462	176	1,375	6,481	2,342	184	9,007	15,695
PLACER	163	719	178	1,060	60	484	5	549	2,366	0	163	2,529	3,589
PLUMAS	25	15	0	40	0	0	0	0	0	0	0	0	40
RIVERSIDE	6,327	7,684	13,210	27,221	1,006	2,081	776	3,863	10,895	26,912	1,550	39,357	66,578
SACRAMENTO	876	10,779	3,476	15,131	296	8,299	361	8,956	3,002	236	1,713	4,951	20,082
SAN BENITO	2,124	5,096	1,387	8,607	970	2,811	119	3,900	16	0	11	27	8,634
SAN BERNARDINO	1,433	1,636	154	3,223	266	1,580	21	1,867	13,832	14,080	1,095	29,007	32,230
SAN DIEGO	6,912	757	1,922	9,591	1,456	593	1,104	3,153	12,607	2,474	189	15,270	24,861
SAN FRANCISCO	22	147	9	178	3	64	4	71	580	0	173	753	931
SAN JOAQUIN	2,011	54,199	29,361	85,571	951	45,116	7,538	53,605	9,545	251	186	9,982	95,553
SAN LUIS OBISPO	879	764	3,881	5,524	296	266	177	739	676	12	30	718	6,242
SAN MATEO	1,208	328	139	1,675	564	33	7	604	2,168	601	94	2,863	4,538
SANTA BARBARA	1,733	45,304	20,063	67,100	436	22,441	1,054	23,931	1,269	12	88	1,369	68,469
SANTA CLARA	1,434	3,790	1,093	6,317	809	2,355	190	3,354	3,168	35	183	3,386	9,703
SANTA CRUZ	539	12,890	717	14,146	251	5,369	45	5,665	1,132	0	265	1,397	15,543
SHASTA	103	13,678	633	14,414	7	11,743	41	11,791	222	0	94	316	14,730
SIERRA	3	152	18	173	3	141	0	144	0	0	0	0	173
SISKIYOU	177	5,731	1,274	7,182	3	3,436	237	3,676	17	352	10	379	7,561
SOLANO	458	34,110	5,634	40,202	287	28,220	38	28,545	1,966	56	10	2,032	42,234
SONOMA	2,152	6,671	1,288	10,111	674	5,232	195	6,101	2,628	2,307	1,273	6,208	16,319
STANISLAUS	7,716	103,796	27,504	139,016	6,600	84,679	4,536	95,815	684	10	51	745	139,761
SUTTER	287	14,019	2,920	17,226	144	8,890	556	9,590	134	0	14	148	17,374
TEHAMA	91	5,626	686	6,403	15	3,730	16	3,761	438	141	16	595	6,998
TRINITY	0	0	0	0	0	0	0	0	65	0	43	108	108
TULARE	11,690	70,357	28,902	110,949	9,392	60,655	10,861	80,908	2,439	319	246	3,004	113,953
TUOLUMNE	32	0	0	32	32	0	0	32	145	0	2	147	179
VENTURA	3,601	6,558	8,565	18,724	1,725	4,296	1,497	7,518	4,272	150	156	4,578	23,302
YOLO	1,048	40,498	9,262	50,808	931	33,921	459	35,311	583	0	43	626	51,434
YUBA	36	3,320	278	3,634	27	2,275	2	2,304	11	21	6	38	3,672
** UNKNOWN **	199	2,080	2,062	4,341	4	59	137	200	84,640	267	1,013	85,920	90,261
<b>TOTAL</b>	<b>116,793</b>	<b>1,688,041</b>	<b>493,473</b>	<b>2,298,307</b>	<b>64,688</b>	<b>1,332,630</b>	<b>106,938</b>	<b>1,504,256</b>	<b>198,665</b>	<b>109,106</b>	<b>15,529</b>	<b>323,300</b>	<b>2,621,607</b>

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 JANUARY - DECEMBER 2016  
 TONS OF NITROGEN MATERIALS - FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER
ALAMEDA	0	0	0	0	0	118	11	0	7	0	8	346	0	479	70	0	824
ALPINE	0	0	0	0	0	12	0	0	0	0	12	0	0	0	2	0	0
AMADOR	0	0	0	0	0	35	12	0	4	0	0	7	0	0	3	0	27
BUTTE	0	33,666	0	64	0	16,733	1,167	0	1,540	184	0	12,813	0	0	991	0	3,415
CALAVERAS	0	0	0	0	0	52	15	0	26	0	0	0	0	0	0	0	10
COLUSA	630	45,992	0	0	0	9,599	1,371	0	9,131	20	49	14,090	1	0	3,793	0	4,211
CONTRA COSTA	6	111	16	0	1,098	183	463	0	1,321	78	54	2,425	0	0	281	1	754
DEL NORTE	0	134	0	0	0	0	0	0	81	0	0	0	0	0	0	20	4
EL DORADO	0	14	0	0	0	18	0	0	14	29	0	3	0	0	6	0	65
FRESNO	500	1,456	0	484	259	2,876	17,373	122	30,418	3,312	1,456	73,232	77	25	4,048	525	35,003
GLENN	0	21,060	0	0	0	5,871	47	0	1,357	37	1	6,880	0	0	399	0	2,309
HUMBOLDT	0	0	0	0	0	10	0	0	0	151	0	2	0	0	0	0	995
IMPERIAL	629	1,599	0	8,538	0	3,027	24	0	2,925	618	930	41,939	112	0	39,290	188	18,274
INYO	0	0	0	0	0	34	0	0	36	5	0	85	0	0	78	0	125
KERN	1,408	139	5	180	56	1,261	10,335	0	14,115	1,002	89	81,454	716	0	3,443	66	35,450
KINGS	2,165	12	0	0	111	339	2,178	0	1,981	1,331	0	22,947	0	0	2,241	7	7,048
LAKE	0	0	0	0	0	84	0	0	378	21	0	315	0	0	118	0	273
LASSEN	0	0	0	0	0	1,008	0	0	275	38	0	14	0	0	749	0	119
LOS ANGELES	4	26	0	809	0	388	79	0	0	162	765	313	0	0	1,092	89	3,935
MADERA	29	283	0	1,541	1	290	8,644	0	10,081	622	82	22,108	4	0	522	535	11,626
MARIN	0	0	0	0	0	4	4	0	0	0	0	11	0	0	0	0	38
MARIPOSA	0	0	0	0	0	0	0	0	182	0	0	0	0	0	0	0	0
MENDOCINO	0	0	0	0	0	3	0	0	121	56	0	70	0	0	46	0	436
MERCED	106	165	1	613	44	2,381	6,400	0	12,875	401	3,156	21,224	0	0	1,428	8	35,104
MODOC	2	0	0	1,631	0	1,631	300	0	27	0	0	615	0	0	3,227	0	68
MONO	0	0	0	0	0	78	0	0	0	0	0	2	0	0	39	0	9
MONTEREY	0	3,300	23	23,684	0	2,619	3,673	110	13,974	1,323	1,170	10,371	326	12	3,005	636	58,800
NAPA	4	0	0	0	0	30	0	0	113	317	0	6	0	0	13	0	1,081
NEVADA	0	0	0	0	0	2	0	0	0	0	0	10	0	0	7	0	70
ORANGE	0	4	0	103	0	356	65	0	605	611	338	169	29	1	513	4	4,620
PLACER	0	2,030	197	0	0	230	130	0	36	3	6	56	0	0	30	0	976
PLUMAS	0	0	0	0	0	0	0	0	0	0	0	6	0	0	14	0	72
RIVERSIDE	366	23	81	4,200	0	1,105	102	2	6,390	1,709	1,289	10,481	71	57	1,352	74	6,851
SACRAMENTO	655	1,118	0	9	0	633	66	0	467	1,011	1	3,710	0	0	1,488	229	2,141
SAN BENITO	0	0	0	88	0	79	5	0	1,797	22	0	220	1	0	13	0	5,805
SAN BERNARDINO	0	0	0	0	0	139	0	0	29	381	89	234	0	0	559	0	1,629
SAN DIEGO	0	0	153	112	0	372	0	0	749	2,047	853	271	0	9	559	1	7,026
SAN FRANCISCO	0	316	0	0	0	64	1	0	0	0	0	3	0	0	23	0	45
SAN JOAQUIN	87	52	345	39	46	3,025	3,037	0	11,873	1,516	36	25,565	0	0	4,534	18	8,724
SAN LUIS OBISPO	0	25	896	804	0	423	290	0	898	161	31	1,632	7	14	91	115	1,067
SAN MATEO	0	90	19	0	0	34	3	0	2	529	0	51	0	1	93	0	1,119
SANTA BARBARA	0	0	2,340	4,379	0	518	1,147	0	1,278	1,582	115	11,586	0	0	18,586	2,244	15,039
SANTA CLARA	0	0	0	9	0	70	33	0	593	90	24	397	17	2	188	22	3,248
SANTA CRUZ	0	0	12	19	0	44	3	18	496	396	0	127	0	0	77	0	19,849
SHASTA	613	136	0	28	0	2,718	8	0	27	39	0	776	0	0	3,621	0	866
SIERRA	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	3
SISKIYOU	33	0	1	0	0	2,373	551	0	930	82	0	1,053	0	48	2,645	0	330
SOLANO	1,351	137	0	0	0	2,839	21	0	1,054	17	19	4,061	224	0	2,867	0	1,287
SONOMA	0	91	19	152	0	106	0	17	298	669	0	60	0	0	63	0	1,508
STANISLAUS	1,307	11	0	529	0	5,430	1,306	0	25,194	362	60	34,992	1	0	2,111	3	10,413
SUTTER	0	28,850	0	515	0	8,889	656	0	1,777	561	320	6,439	15	0	3,367	0	1,324
TEHAMA	0	289	0	0	0	2,311	8	0	451	110	0	2,230	0	1	175	0	249
TRINITY	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1
TULARE	1,277	0	0	0	308	3,711	3,486	0	5,654	1,774	159	28,909	0	222	3,082	1,430	17,855
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	0	617	2,416	0	200	247	0	3,403	1,037	28	1,946	28	5	423	29	6,645
YOLO	264	11,615	0	0	0	5,922	945	0	5,707	34	0	12,610	1	0	1,669	0	5,558
YUBA	0	5,047	0	569	0	1,410	120	0	177	104	76	773	1	0	685	0	403
** UNKNOWN **	0	794	0	93	0	1,069	26	0	181	61	0	278	0	0	188	0	2,690
<b>TOTAL</b>	<b>11,436</b>	<b>158,585</b>	<b>4,725</b>	<b>49,977</b>	<b>1,923</b>	<b>92,760</b>	<b>64,352</b>	<b>269</b>	<b>170,790</b>	<b>24,878</b>	<b>11,204</b>	<b>459,918</b>	<b>1,631</b>	<b>876</b>	<b>113,907</b>	<b>6,244</b>	<b>347,416</b>

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 JANUARY - DECEMBER 2016  
 TONS OF PHOSPHOROUS AND POTASSIUM MATERIALS - FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHOROUS MATERIALS - ALL OTHER	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER	
ALAMEDA	0	6	0	0	35	0	0	8	119	3	0	0	25	95
ALPINE	0	0	3	0	0	0	0	0	0	6	0	0	0	0
AMADOR	0	0	0	0	0	0	0	0	27	0	0	8	48	39
BUTTE	0	1,115	3,041	2	3,202	0	0	0	937	7,319	3,035	264	6,928	2,402
CALAVERAS	0	1	0	0	0	0	0	0	9	53	0	0	117	41
COLUSA	55	3,536	752	277	5,381	0	26	2,230	36	1,486	162	1,967	2,911	2,911
CONTRA COSTA	0	35	64	87	554	0	0	462	200	0	45	185	424	424
DEL NORTE	0	64	0	111	0	0	0	113	0	0	1	0	83	83
EL DORADO	0	1	0	0	25	0	4	35	0	0	0	11	35	35
FRESNO	21	291	2,487	2,092	3,625	0	4	16,765	3,683	1,933	1,289	9,863	26,746	26,746
GLENN	0	821	953	0	72	0	0	1,354	1,647	0	109	2,229	2,491	2,491
HUMBOLDT	0	39	0	0	1	0	0	513	41	4	1	0	505	505
IMPERIAL	0	7	21,366	2,830	5,019	0	0	11,817	397	550	124	2,341	3,332	3,332
INYO	0	0	36	0	0	0	0	16	21	0	11	21	26	26
KERN	15	315	2,483	893	7,870	0	1	12,213	4,855	7,878	656	13,912	27,153	27,153
KINGS	51	0	1,486	1,449	3,217	0	0	2,676	937	129	126	4,485	2,726	2,726
LAKE	0	85	2	0	237	0	7	18	11	43	0	82	102	102
LASSEN	0	146	151	0	0	0	0	6	240	0	0	42	226	226
LOS ANGELES	0	12	215	0	63	0	2	449	27	48	533	391	203	203
MADERA	0	0	393	151	917	0	0	2,137	1,820	509	189	3,095	6,218	6,218
MARIN	0	0	0	0	0	0	0	41	0	0	0	0	0	0
MARIPOSA	0	19	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	1	67	0	222	0	0	252	45	18	0	180	311	311
MERCED	0	46	1,275	23	827	0	0	11,304	4,497	94	340	5,009	13,404	13,404
MODOC	0	2,432	812	0	419	0	0	0	207	0	0	613	103	103
MONO	0	0	297	0	0	0	0	26	36	0	0	0	801	801
MONTEREY	0	350	973	1,364	381	0	0	11,264	1,239	306	835	6,353	13,339	13,339
NAPA	0	39	65	0	10	0	30	728	0	0	27	191	1,230	1,230
NEVADA	0	1	3	0	0	0	0	29	0	0	1	26	7	7
ORANGE	0	54	12	47	0	0	60	960	3	35	209	477	833	833
PLACER	0	46	101	0	0	0	0	107	87	1	0	104	51	51
PLUMAS	0	2	116	0	0	0	1	0	52	0	0	0	1	1
RIVERSIDE	0	16	3,403	1,359	2,468	0	27	2,145	723	466	374	1,188	1,176	1,176
SACRAMENTO	0	414	132	88	14	0	5	859	922	0	74	549	1,918	1,918
SAN BENITO	0	0	27	0	3	0	0	898	0	1	2	110	692	692
SAN BERNARDINO	0	18	27	0	3	0	7	98	39	0	15	2	47	47
SAN DIEGO	0	47	0	44	0	0	142	585	66	397	382	2,640	301	301
SAN FRANCISCO	0	116	3	0	0	0	0	4	0	0	0	1	2	2
SAN JOAQUIN	0	55	187	23	4,481	0	3	7,232	2,000	222	201	6,176	11,735	11,735
SAN LUIS OBISPO	0	187	11	4	10	0	0	449	20	0	331	426	1,769	1,769
SAN MATEO	0	32	0	0	0	0	7	357	183	0	45	163	204	204
SANTA BARBARA	0	0	175	126	4	0	0	5,921	834	20	420	1,181	4,607	4,607
SANTA CLARA	0	9	1	0	12	1	16	617	13	3	13	89	956	956
SANTA CRUZ	0	0	29	3	4	0	1	580	7	37	66	195	330	330
SHASTA	0	510	782	51	11	0	0	79	1,606	0	28	72	66	66
SIERRA	0	5	0	14	0	0	0	0	0	0	0	0	2	2
SISKIYOU	0	860	957	22	344	0	0	526	1,798	0	2	816	444	444
SOLANO	0	1,685	3,491	27	741	5,065	4	1,798	437	0	60	767	886	886
SONOMA	0	77	71	0	190	0	74	1,167	25	2	107	555	1,427	1,427
STANISLAUS	0	62	2,033	0	1,766	0	0	5,485	6,672	1,099	627	12,033	12,152	12,152
SUTTER	0	1,994	827	0	632	0	9	1,155	934	47	329	2,959	557	557
TEHAMA	0	204	997	0	45	0	0	137	156	0	54	1,745	269	269
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	2	0	1,783	1,125	1,364	0	1	4,983	2,080	753	672	5,392	5,086	5,086
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	468	297	370	326	0	10	2,830	223	63	264	1,414	1,822	1,822
YOLO	0	175	593	10	2,485	0	32	2,152	493	0	35	871	3,781	3,781
YUBA	0	217	34	0	350	0	0	118	429	0	48	261	76	76
** UNKNOWN **	0	81	615	0	2,397	0	0	919	0	0	62	56	2,835	2,835
TOTAL	144	16,696	53,628	12,592	49,727	5,066	481	117,701	47,122	19,179	9,141	98,356	158,978	158,978

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**JANUARY - DECEMBER 2016**  
**TONS OF AGRICULTURAL MINERALS - FARM USE**

COUNTY	COPPER	IRON	GYPSUM	LIME	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	OTHER SECONDARY/MICROS
ALAMEDA	1	31	703	229	0	464	112	369
ALPINE	0	0	0	0	0	0	0	0
AMADOR	0	0	0	97	0	13	0	5
BUTTE	71	68	4,882	3,004	0	1,469	163	2,638
CALAVERAS	0	0	695	100	0	53	0	30
COLUSA	58	8	37,979	7,547	0	2,153	915	15,137
CONTRA COSTA	0	27	502	25	0	682	0	403
DEL NORTE	2	2	4	7	0	1	0	1
EL DORADO	0	2	4	1,466	0	48	0	53
FRESNO	134	344	294,897	10,006	29,254	14,187	8,927	59,433
GLENN	6	3	13,553	4,832	0	1,089	0	852
HUMBOLDT	0	3	24	588	0	302	0	96
IMPERIAL	5	78	835	22,813	0	1,618	825	4,205
INYO	0	4	13	25	0	2	4	18
KERN	280	199	406,157	40,413	18,309	29,094	25,102	103,194
KINGS	12	10	348,345	15,244	546	31,708	82,526	17,749
LAKE	0	2	538	1	0	8,921	0	44
LASSEN	0	0	532	25	0	122	48	78
LOS ANGELES	0	142	1,209	67	253	480	1,218	1,602
MADERA	86	14	9,438	1,332	1,736	6,854	4,182	5,520
MARIN	0	2	0	25	0	0	0	14
MARIPOSA	0	0	0	0	11,211	8,752	0	0
MENDOCINO	0	13	710	675	0	2,143	0	60
MERCED	82	8	34,903	11,885	3,691	11,871	1,802	15,880
MODOC	0	0	570	25	6,235	1,060	27	4,528
MONO	0	0	261	72	0	215	0	0
MONTEREY	37	122	6,636	17,321	0	480	497	5,881
NAPA	0	5	4,662	1,191	0	111	0	9,313
NEVADA	0	2	2	4	0	4	0	9
ORANGE	3	268	675	67	111	120	11	1,288
PLACER	4	7	76	1,478	0	15	0	137
PLUMAS	0	0	0	0	0	0	0	2
RIVERSIDE	1	331	2,732	56	0	194	74	4,783
SACRAMENTO	2	97	1,230	1,159	3,355	808	2	12,356
SAN BENITO	2	0	5,162	310	0	49	10	210
SAN BERNARDINO	0	166	1,427	143	0	81	42	770
SAN DIEGO	8	240	3,261	216	0	41	25	2,406
SAN FRANCISCO	0	1	346	4	0	0	0	88
SAN JOAQUIN	4	133	33,756	19,768	0	11,596	1,624	9,638
SAN LUIS OBISPO	11	23	2,239	19	0	40	4	636
SAN MATEO	3	416	560	204	0	328	2	401
SANTA BARBARA	6	50	21,612	14,133	0	568	246	5,209
SANTA CLARA	1	19	3,112	73	0	36	367	705
SANTA CRUZ	6	21	6,247	3,213	0	26	5	273
SHASTA	1	10	2,366	16,093	0	340	106	1,419
SIERRA	0	0	165	0	0	0	0	3
SISKIYOU	0	0	3,229	97	0	1,691	285	2,645
SOLANO	0	6	32,780	2,340	2,502	890	0	156
SONOMA	10	51	5,513	2,500	0	613	0	1,462
STANISLAUS	55	90	74,456	23,778	0	12,879	6,049	8,059
SUTTER	46	2	10,237	2,920	0	1,111	0	1,679
TEHAMA	0	32	3,696	1,663	0	241	2	251
TRINITY	0	0	2	6	0	0	0	0
TULARE	111	175	163,186	4,599	0	13,962	16,491	15,458
TUOLUMNE	0	0	0	139	0	0	0	0
VENTURA	8	353	16,678	10	3,182	219	738	2,338
YOLO	1	1	25,624	389	0	2,241	176	27,192
YUBA	1	0	2,195	661	0	186	0	98
** UNKNOWN **	42	0	425	31	0	503	0	425
<b>TOTAL</b>	<b>1,100</b>	<b>3,581</b>	<b>1,591,041</b>	<b>235,088</b>	<b>80,385</b>	<b>172,674</b>	<b>152,607</b>	<b>347,199</b>

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS  
 JANUARY - DECEMBER 2016  
 TONS OF MATERIALS BY USE

COUNTY	FARM USE DRY PACKAGED	FARM USE DRY BULK	FARM USE LIQUID	FARM USE TOTAL	AG MIN DRY PACKAGED	AG MIN DRY BULK	AG MIN LIQUID	AG MIN TOTAL	NONFARM USE DRY PACKAGED	NONFARM USE DRY BULK	NONFARM USE LIQUID	NONFARM USE TOTAL	TOTAL ALL
ALAMEDA	2,672	475	916	4,063	1,256	271	382	1,909	9,042	36	2,158	11,236	15,299
ALPINE	0	23	0	23	0	0	0	0	0	0	0	0	23
AMADOR	82	189	54	325	10	97	8	115	317	0	1	318	643
BUTTE	3,123	49,163	58,828	111,114	1,520	9,080	1,695	12,295	2,504	0	764	3,268	114,382
CALAVERAS	814	260	128	1,202	696	126	56	878	1,014	0	139	1,153	2,355
COLUSA	10,230	74,618	86,655	171,503	6,199	53,354	4,244	63,797	17	5,045	0	5,062	176,565
CONTRA COSTA	1,144	1,579	7,763	10,486	206	507	926	1,639	6,764	7	712	7,483	17,969
DEL NORTE	382	0	1,033	1,415	16	0	1	17	208	0	1,206	1,414	2,829
EL DORADO	878	837	118	1,833	729	799	45	1,573	915	654	148	1,717	3,550
FRESNO	36,976	403,869	216,302	657,147	19,683	358,257	39,242	417,182	5,195	109	380	5,684	662,831
GLENN	727	35,481	31,764	67,972	222	19,640	473	20,335	47	151	2	200	68,172
HUMBOLDT	2,609	366	49	3,024	462	256	44	762	7,919	707	1,849	10,475	13,499
IMPERIAL	4,844	109,463	81,948	196,255	926	23,572	5,881	30,379	628	38	174	840	197,095
INYO	307	129	124	560	30	25	11	66	43	0	0	43	603
KERN	27,718	617,592	205,403	850,713	14,416	565,444	42,888	622,748	4,294	298	124	4,716	855,429
KINGS	9,429	414,990	129,309	553,728	5,636	403,599	86,872	496,107	551	21	35	607	554,335
LAKE	9,291	918	1,073	11,282	9,024	442	40	9,506	264	0	37	301	11,583
LASSEN	104	3,263	452	3,819	29	727	49	805	250	0	3	253	4,072
LOS ANGELES	7,834	2,807	3,935	14,576	1,616	1,527	1,828	4,971	31,997	92,421	3,976	128,394	142,970
MADERA	7,637	31,371	61,909	100,917	3,880	16,691	8,591	29,162	422	42	18	482	101,399
MARIN	85	35	19	139	12	25	4	41	1,154	20,478	196	21,828	21,967
MARIPOSA	8,771	11,211	182	20,164	8,752	11,211	0	19,963	287	0	26	313	20,477
MENDOCINO	3,128	1,826	475	5,429	2,338	1,248	15	3,601	8,010	231	855	9,096	14,525
MERCED	14,407	105,769	81,265	201,441	8,774	55,606	15,742	80,122	901	20	28	949	202,390
MODOC	96	22,146	659	22,901	96	12,255	94	12,445	2	69	0	71	22,972
MONO	22	1,026	788	1,836	0	548	0	548	37	0	1	38	1,874
MONTEREY	13,424	88,436	88,544	190,404	2,700	25,555	2,719	30,974	1,982	77	201	2,260	192,664
NAPA	1,735	16,302	1,129	19,166	729	13,887	666	15,282	449	7	6	462	19,628
NEVADA	82	52	43	177	12	0	9	21	1,249	940	135	2,324	2,501
ORANGE	7,105	2,655	2,911	12,671	1,400	755	388	2,543	15,986	4,753	955	21,694	34,365
PLACER	438	3,005	2,465	5,908	102	1,606	9	1,717	7,547	0	424	7,971	13,879
PLUMAS	74	186	6	266	0	2	0	2	23	0	0	23	289
RIVERSIDE	12,172	15,172	28,328	55,672	1,847	4,659	1,665	8,171	53,464	41,135	1,841	96,440	152,112
SACRAMENTO	2,909	22,653	9,950	35,512	730	17,557	722	19,009	10,524	636	3,335	14,495	50,007
SAN BENITO	4,571	7,438	3,496	15,505	2,089	3,416	238	5,743	94	0	11	105	15,610
SAN BERNARDINO	3,561	1,904	480	5,945	846	1,745	38	2,629	25,748	23,831	2,260	51,839	57,784
SAN DIEGO	18,151	1,985	2,829	22,965	3,345	1,649	1,203	6,197	25,015	10,092	304	35,411	58,376
SAN FRANCISCO	525	159	333	1,017	354	76	9	439	982	0	359	1,341	2,358
SAN JOAQUIN	5,850	77,323	84,539	167,712	2,402	57,953	16,164	76,519	30,018	332	455	30,805	198,517
SAN LUIS OBISPO	1,970	3,006	7,676	12,652	409	2,029	534	2,972	1,637	12	131	1,780	14,432
SAN MATEO	2,954	1,307	585	4,846	1,201	657	56	1,914	5,423	955	214	6,592	11,438
SANTA BARBARA	5,153	68,720	40,043	113,916	1,257	38,640	1,917	41,814	2,721	13	148	2,882	116,798
SANTA CLARA	3,230	5,386	2,098	10,714	1,485	2,587	241	4,313	9,459	92	335	9,886	20,600
SANTA CRUZ	3,698	26,196	2,204	32,098	330	9,301	160	9,791	8,695	0	504	9,199	41,297
SHASTA	493	29,897	1,982	32,372	106	20,024	205	20,335	1,218	12	170	1,400	33,772
SIERRA	27	152	18	197	27	141	0	168	0	0	0	0	197
SISKIYOU	932	18,492	2,338	21,762	83	7,582	282	7,947	244	2,431	12	2,687	24,449
SOLANO	1,228	51,953	14,331	67,512	668	37,906	100	38,674	6,784	171	86	7,041	74,553
SONOMA	5,286	9,451	2,091	16,828	1,827	7,905	418	10,150	5,929	5,650	2,595	14,174	31,002
STANISLAUS	16,185	130,028	102,819	249,032	10,425	95,221	19,720	125,366	2,857	14	264	3,135	252,167
SUTTER	2,111	33,154	42,886	78,151	624	14,067	1,304	15,995	769	0	60	829	78,980
TEHAMA	225	11,628	3,463	15,316	25	5,743	117	5,885	3,600	141	61	3,802	19,118
TRINITY	8	0	6	14	8	0	0	8	566	0	72	638	652
TULARE	22,217	191,709	91,164	305,090	13,661	174,490	25,831	213,982	8,784	379	599	9,762	314,852
TUOLUMNE	139	0	0	139	139	0	0	139	384	0	3	387	526
VENTURA	8,367	22,505	17,744	48,616	3,644	17,491	2,391	23,526	7,110	2,105	220	9,435	58,051
YOLO	3,223	66,206	41,160	110,589	2,137	52,215	1,272	55,624	2,460	55	79	2,594	113,183
YUBA	474	6,678	6,887	14,039	100	3,020	21	3,141	279	21	9	309	14,348
** UNKNOWN **	846	5,639	7,286	13,771	570	525	331	1,426	90,313	140,155	1,838	232,306	246,077
<b>TOTAL</b>	<b>302,673</b>	<b>2,808,783</b>	<b>1,582,985</b>	<b>4,694,441</b>	<b>141,810</b>	<b>2,153,711</b>	<b>287,861</b>	<b>2,583,382</b>	<b>415,095</b>	<b>354,336</b>	<b>30,518</b>	<b>799,949</b>	<b>5,494,390</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS AND AGRICULTURAL MINERALS**  
**JANUARY - DECEMBER 2016**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NONFARM**

COUNTY	ALL NITROGEN	ALL P2O5	ALL K2O	ALL TOTAL	DRY NITROGEN	DRY P2O5	DRY K2O	DRY TOTAL	LIQUID NITROGEN	LIQUID P2O5	LIQUID K2O	LIQUID TOTAL
ALAMEDA	1,173	136	109	1,418	990	112	72	1,174	183	24	38	245
ALPINE	4	2	4	9	4	2	4	9	0	0	0	0
AMADOR	41	27	67	135	32	24	52	107	9	3	15	27
BUTTE	19,530	3,831	11,041	34,403	7,356	2,504	8,775	18,636	12,174	1,327	2,266	15,767
CALAVERAS	27	9	131	168	18	3	109	131	9	6	22	37
COLUSA	25,148	5,345	4,314	34,807	6,826	1,933	2,180	10,939	18,322	3,412	2,134	23,869
CONTRA COSTA	2,331	738	656	3,725	678	222	323	1,223	1,653	515	333	2,502
DEL NORTE	57	186	83	327	31	126	83	240	27	60	0	87
EL DORADO	85	46	41	171	73	30	34	137	12	16	7	34
FRESNO	72,676	21,075	35,172	128,924	21,782	7,551	14,951	44,283	50,895	13,525	20,221	84,641
GLENN	10,640	2,038	4,642	17,320	3,260	1,634	3,901	8,794	7,380	404	741	8,526
HUMBOLDT	1,027	521	531	2,079	1,026	521	531	2,077	1	0	0	2
IMPERIAL	56,726	26,163	4,916	87,806	33,235	17,703	4,047	54,985	23,491	8,461	869	32,821
INYO	208	35	54	296	152	35	54	241	55	0	0	55
KERN	70,841	17,099	39,227	127,167	18,269	5,630	22,924	46,822	52,572	11,469	16,303	80,345
KINGS	18,637	5,359	5,620	29,616	5,736	2,115	2,901	10,753	12,901	3,244	2,719	18,864
LAKE	551	120	159	830	336	38	83	457	215	82	76	372
LASSEN	772	114	391	1,277	625	112	366	1,102	147	2	25	174
LOS ANGELES	5,177	591	662	6,430	4,321	437	554	5,312	856	153	109	1,118
MADERA	22,631	2,769	9,070	34,470	8,822	1,536	4,902	15,260	13,808	1,234	4,168	19,210
MARIN	43	41	0	84	39	41	0	80	4	0	0	4
MARIPOSA	703	228	112	1,043	676	228	112	1,016	27	0	0	27
MENDOCINO	539	363	432	1,333	459	278	409	1,146	80	84	23	188
MERCED	47,706	12,344	18,814	78,863	28,865	7,315	11,317	47,497	18,841	5,029	7,497	31,366
MODOC	3,028	1,176	596	4,800	2,914	1,113	581	4,609	114	63	15	191
MONO	77	180	823	1,080	76	180	37	293	1	0	786	787
MONTEREY	73,313	12,706	17,694	103,713	40,949	4,755	11,262	56,966	32,364	7,951	6,431	46,747
NAPA	1,183	787	1,337	3,308	1,103	732	1,126	2,962	81	54	211	346
NEVADA	77	31	20	129	53	29	19	101	24	2	1	27
ORANGE	5,355	1,032	1,174	7,561	4,571	585	661	5,816	784	447	513	1,745
PLACER	1,571	169	155	1,895	1,112	98	89	1,300	459	70	67	596
PLUMAS	93	61	32	187	92	61	32	185	2	0	0	2
RIVERSIDE	14,676	5,503	2,477	22,656	8,343	3,111	1,918	13,372	6,333	2,392	559	9,284
SACRAMENTO	5,487	1,132	2,812	9,431	2,642	523	1,265	4,430	2,845	609	1,547	5,001
SAN BENITO	6,229	913	748	7,890	5,096	597	497	6,190	1,133	316	251	1,700
SAN BERNARDINO	2,085	120	78	2,283	1,843	93	74	2,010	243	27	4	273
SAN DIEGO	8,260	683	1,916	10,860	7,796	614	1,875	10,284	464	70	41	576
SAN FRANCISCO	152	29	3	183	84	29	3	115	68	0	0	68
SAN JOAQUIN	22,971	8,878	16,160	48,009	5,073	1,263	6,355	12,692	17,898	7,614	9,805	35,317
SAN LUIS OBISPO	2,518	498	2,140	5,156	825	113	531	1,469	1,693	385	1,609	3,687
SAN MATEO	1,302	367	415	2,083	1,107	183	375	1,664	195	184	40	419
SANTA BARBARA	30,228	6,081	5,887	42,196	17,321	1,583	2,588	21,492	12,907	4,498	3,299	20,705
SANTA CLARA	3,615	631	1,015	5,261	3,173	491	549	4,212	443	140	466	1,049
SANTA CRUZ	20,101	599	469	21,169	19,383	190	351	19,924	718	409	118	1,245
SHASTA	4,070	619	1,078	5,767	3,198	561	1,050	4,808	872	58	28	959
SIERRA	5	9	2	16	2	1	2	5	3	8	0	11
SISKIYOU	2,941	1,324	1,932	6,197	2,449	1,080	1,863	5,392	492	245	69	805
SOLANO	6,748	5,383	1,583	13,715	3,116	3,822	953	7,891	3,633	1,561	630	5,824
SONOMA	1,841	1,318	1,767	4,926	1,513	1,101	1,257	3,871	328	217	510	1,054
STANISLAUS	29,911	7,155	22,689	59,755	6,335	2,835	14,426	23,595	23,576	4,320	8,264	36,160
SUTTER	13,749	2,203	2,752	18,704	5,157	1,310	1,727	8,194	8,592	893	1,025	10,510
TEHAMA	1,835	712	1,259	3,805	852	607	1,155	2,614	984	104	104	1,192
TRINITY	2	0	0	2	0	0	0	0	2	0	0	2
TULARE	32,895	6,983	9,491	49,369	6,731	3,295	5,227	15,253	26,164	3,687	4,264	34,115
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	9,349	3,457	2,825	15,630	4,757	1,256	1,093	7,106	4,592	2,201	1,732	8,525
YOLO	15,580	3,360	4,528	23,468	5,553	1,230	1,525	8,308	10,026	2,130	3,003	15,159
YUBA	2,546	298	485	3,330	971	167	425	1,564	1,575	131	60	1,766
** UNKNOWN **	3,639	2,070	2,890	8,600	2,483	1,119	344	3,947	1,156	951	2,546	4,653
<b>TOTAL</b>	<b>684,708</b>	<b>175,643</b>	<b>245,480</b>	<b>1,105,832</b>	<b>310,281</b>	<b>84,856</b>	<b>139,917</b>	<b>535,054</b>	<b>374,428</b>	<b>90,787</b>	<b>105,564</b>	<b>570,778</b>