

# FERTILIZING MATERIALS TONNAGE REPORT

JANUARY – JUNE 2019



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, agricultural minerals, and compost 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, agricultural minerals, and/or compost sold/distributed in California, as defined in the Food and Agricultural Code, Sections 14512, 14522 and 14563, 14550.5, and 14525. 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 2017	JAN-JUNE 2018	JULY-DEC 2018	JAN-JUNE 2019	JULY-JUNE 2017-2018	JULY-JUNE 2018-2019
0	IDENTIFIED BY GRADE	322,235	0	0	0	322,235	0
0	N-P-K GRADES	213,690	0	0	0	213,690	0
2	ANHYDROUS AMMONIA	5,162	4,086	7,136	5,753	9,248	12,889
6	AQUA AMMONIA	10,882	133,186	11,710	132,223	144,068	143,933
10	AMMONIUM NITRATE	1,833	1,119	448	941	2,952	1,389
12	AMMONIUM NITRATE SOLUTION	25,674	20,711	19,070	22,348	46,385	41,418
20	AMMONIUM POLYSULFIDE	0	439	0	4,364	439	4,364
24	AMMONIUM SULFATE	34,962	67,285	26,755	52,470	102,247	79,225
31	AMMONIUM THIOSULFATE	16,267	39,882	13,145	38,609	56,149	51,754
35	CALCIUM AMMONIUM NITRATE SOLUTION	42,938	106,921	40,895	112,692	149,859	153,587
43	CALCIUM NITRATE	8,594	7,779	4,618	13,543	16,373	18,161
58	NITROGEN SOLUTION 28%	928	2,080	3,912	2,642	3,008	6,554
60	NITROGEN SOLUTION 32%	159,364	377,488	172,180	387,119	536,852	559,299
62	SODIUM NITRATE	2,086	1,994	157	102	4,080	259
64	SULFUR COATED UREA	19	44	10	10	63	20
66	UREA	4,550	56,029	35,782	77,885	60,579	113,667
67	UREA SOLUTION	5,778	6,876	1,560	5,120	12,654	6,680
0	NON-FARM USE NITROGEN	0	25,145	25,306	38,735	25,145	64,041
98	NITROGEN MATERIALS - COMPOST	0	8,179	2,938	3,381	8,179	6,319
203	DIAMMONIUM PHOSPHATE	10	407	18	37	417	55
207	AMMONIUM PHOSPHATE SULFATE	4,897	11,335	6,235	9,880	16,232	16,115
209	MONOAMMONIUM PHOSPHATE	38,530	30,545	29,456	27,672	69,075	57,128
248	PHOSPHORIC ACID	8,478	9,223	8,036	10,739	17,701	18,775
249	LIQUID AMMONIUM POLYPHOSPHATE	18,798	37,631	22,699	40,750	56,429	63,449
263	NORMAL SUPERPHOSPHATE	0	30	1	2	30	3
267	TRIPLE SUPERPHOSPHATE	662	473	1,229	307	1,135	1,536
0	NON-FARM USE PHOSPHORUS	0	13,105	16,354	12,133	13,105	28,487
298	PHOSPHORUS MATERIALS - COMPOST	0	2,305	2,169	3,729	2,305	5,898
428	MURIATE OF POTASH	21,626	25,001	26,170	21,366	46,627	47,536
443	SULFATE OF POTASH MAGNESIA	15,991	25,396	14,095	27,240	41,387	41,335
453	POTASSIUM NITRATE	10,171	3,063	2,849	4,208	13,234	7,057
463	POTASSIUM SULFATE	179,437	57,510	56,227	47,774	236,947	104,001
0	NON-FARM USE POTASH	0	6,157	6,118	7,150	6,157	13,268
498	POTASSIUM MATERIALS - COMPOST	0	2,915	3,104	1,949	2,915	5,053
601	BLOOD MEAL	10	29	10	49	39	59
667	SEWAGE SLUDGE	191,600	98,055	110,072	86,455	289,655	196,527
723	COPPER - ALL MATERIALS	482	517	390	866	999	1,256
731	IRON - ALL MATERIALS	1,764	2,185	1,508	1,232	3,949	2,740
732	GYPSSUM - ALL MATERIALS	1,121,845	611,234	816,493	528,625	1,733,079	1,345,118
770	SULFUR	57,203	68,776	63,012	44,534	125,979	107,546
774	SULFURIC ACID	75,789	81,633	80,613	77,659	157,422	158,272
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	181,841	230,432	163,063	244,735	412,273	407,798
907	LIMING MATERIALS - ALL MATERIALS	193,171	109,726	227,783	108,784	302,897	336,567
0	NON-FARM USE SECONDARY/MICRONUTRIENTS	0	12,790	9,109	13,170	12,790	22,279
613	OIM BULK COMPOST - NO NUTRIENTS	0	178,772	310,625	137,447	178,772	448,072
0	TOTAL	2,977,267	2,478,488	2,343,060	2,356,879	5,455,755	4,699,939

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

CODE	MATERIAL NAME	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC
		2017 N	2017 P2O5	2017 K2O	2018 N	2018 P2O5	2018 K2O
0	IDENTIFIED BY GRADE	116,145	42,161	57,186	0	0	0
0	NON-FARM USE NITROGEN	0	0	0	25,306	0	0
0	NON-FARM USE PHOSPHORUS	0	0	0	0	16,354	0
0	NON-FARM USE POTASH	0	0	0	0	0	6,118
2	ANHYDROUS AMMONIA	4,233	0	0	5,852	0	0
6	AQUA AMMONIA	2,176	0	0	2,342	0	0
10	AMMONIUM NITRATE	623	0	0	152	0	0
12	AMMONIUM NITRATE SOLUTION	5,135	0	0	3,814	0	0
20	AMMONIUM POLYSULFIDE	0	0	0	0	0	0
24	AMMONIUM SULFATE	7,342	0	0	5,619	0	0
31	AMMONIUM THIOSULFATE	1,952	0	0	1,577	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	7,299	0	0	6,952	0	0
43	CALCIUM NITRATE	1,290	0	0	693	0	0
58	NITROGEN SOLUTION 28%	260	0	0	1,095	0	0
60	NITROGEN SOLUTION 32%	50,955	0	0	55,098	0	0
62	SODIUM NITRATE	334	0	0	25	0	0
64	SULFUR COATED UREA	7	0	0	4	0	0
66	UREA	20,930	0	0	16,460	0	0
67	UREA SOLUTION	1,156	0	0	312	0	0
97	NITROGEN MATERIALS - ALL OTHER	0	0	0	91,496	0	0
98	NITROGEN MATERIALS - COMPOST	0	0	0	2,938	0	0
203	DIAMMONIUM PHOSPHATE	2	5	0	3	8	0
207	AMMONIUM PHOSPHATE SULFATE	789	987	0	998	1,247	0
209	MONOAMMONIUM PHOSPHATE	4,238	20,036	0	3,240	15,317	0
248	PHOSPHORIC ACID	0	4,578	0	0	4,339	0
249	LIQUID AMMONIUM POLYPHOSPHATE	1,881	6,394	0	2,270	7,718	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	310	0	0	565	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	0	0	0	41,187	0
298	PHOSPHORUS MATERIALS - COMPOST	0	0	0	0	2,169	0
428	MURIATE OF POTASH	0	0	12,976	0	0	15,702
443	SULFATE OF POTASH MAGNESIA	0	0	3,523	0	0	3,101
453	POTASSIUM NITRATE	1,424	0	4,477	399	0	1,254
463	POTASSIUM SULFATE	0	0	89,718	0	0	28,114
497	POTASSIUM MATERIALS - ALL OTHER	0	0	0	0	0	55,576
498	POTASSIUM MATERIALS - COMPOST	0	0	0	0	0	3,104
601	BLOOD MEAL	1	0	0	1	0	0
667	SEWAGE SLUDGE	11,496	3,832	1,916	6,604	2,201	1,101
0	TOTAL	239,668	78,302	169,795	233,249	91,107	114,069

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**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**TOTAL TONS OF NUTRIENTS REPORTED FOR THE PERIOD INDICATED**

CODE	MATERIAL NAME	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE
		2018 N	2018 P2O5	2018 K2O	2019 N	2019 P2O5	2019 K2O
0	IDENTIFIED BY GRADE	0	0	0	0	0	0
0	NON-FARM USE NITROGEN	25,145	0	0	38,735	0	0
0	NON-FARM USE PHOSPHORUS	0	13,105	0	0	12,133	0
0	NON-FARM USE POTASH	0	0	6,157	0	0	7,150
2	ANHYDROUS AMMONIA	3,351	0	0	4,717	0	0
6	AQUA AMMONIA	26,637	0	0	26,445	0	0
10	AMMONIUM NITRATE	380	0	0	320	0	0
12	AMMONIUM NITRATE SOLUTION	4,142	0	0	4,470	0	0
20	AMMONIUM POLYSULFIDE	88	0	0	873	0	0
24	AMMONIUM SULFATE	14,130	0	0	11,019	0	0
31	AMMONIUM THIOSULFATE	4,786	0	0	4,633	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	18,184	0	0	19,158	0	0
43	CALCIUM NITRATE	1,167	0	0	2,031	0	0
58	NITROGEN SOLUTION 28%	582	0	0	740	0	0
60	NITROGEN SOLUTION 32%	120,796	0	0	123,878	0	0
62	SODIUM NITRATE	319	0	0	16	0	0
64	SULFUR COATED UREA	16	0	0	4	0	0
66	UREA	25,773	0	0	35,827	0	0
67	UREA SOLUTION	1,375	0	0	1,024	0	0
97	NITROGEN MATERIALS - ALL OTHER	137,451	0	0	126,314	0	0
98	NITROGEN MATERIALS - COMPOST	8,179	0	0	3,381	0	0
203	DIAMMONIUM PHOSPHATE	73	187	0	7	17	0
207	AMMONIUM PHOSPHATE SULFATE	1,814	2,267	0	1,581	1,976	0
209	MONOAMMONIUM PHOSPHATE	3,360	15,883	0	3,044	14,389	0
248	PHOSPHORIC ACID	0	4,980	0	0	5,799	0
249	LIQUID AMMONIUM POLYPHOSPHATE	3,763	12,795	0	4,075	13,855	0
263	NORMAL SUPERPHOSPHATE	0	7	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	218	0	0	141	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	56,583	0	0	55,810	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,305	0	0	3,729	0
428	MURIATE OF POTASH	0	0	15,001	0	0	12,820
443	SULFATE OF POTASH MAGNESIA	0	0	5,588	0	0	5,993
453	POTASSIUM NITRATE	429	0	1,348	589	0	1,852
463	POTASSIUM SULFATE	0	0	28,755	0	0	23,887
497	POTASSIUM MATERIALS - ALL OTHER	0	0	88,044	0	0	73,714
498	POTASSIUM MATERIALS - COMPOST	0	0	2,915	0	0	1,949
601	BLOOD MEAL	3	0	0	6	0	0
667	SEWAGE SLUDGE	5,883	1,961	981	5,187	1,729	865
0	TOTAL	407,827	110,291	148,788	418,073	109,579	128,228

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**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**TOTAL TONS OF NUTRIENTS REPORTED FOR THE PERIOD INDICATED**

CODE	MATERIAL NAME	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE	JULY-JUNE
		17-18 N	17-18 P2O5	17-18 K2O	18-19 N	18-19 P2O5	18-19 K2O
0	IDENTIFIED BY GRADE	116,145	42,161	57,186	0	0	0
0	NON-FARM USE NITROGEN	25,145	0	0	64,041	0	0
0	NON-FARM USE PHOSPHORUS	0	13,105	0	0	28,487	0
0	NON-FARM USE POTASH	0	0	6,157	0	0	13,268
2	ANHYDROUS AMMONIA	7,583	0	0	10,569	0	0
6	AQUA AMMONIA	28,814	0	0	28,787	0	0
10	AMMONIUM NITRATE	1,004	0	0	472	0	0
12	AMMONIUM NITRATE SOLUTION	9,277	0	0	8,284	0	0
20	AMMONIUM POLYSULFIDE	88	0	0	873	0	0
24	AMMONIUM SULFATE	21,472	0	0	16,637	0	0
31	AMMONIUM THIOSULFATE	6,738	0	0	6,210	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	25,483	0	0	26,110	0	0
43	CALCIUM NITRATE	2,456	0	0	2,724	0	0
58	NITROGEN SOLUTION 28%	842	0	0	1,835	0	0
60	NITROGEN SOLUTION 32%	171,751	0	0	178,976	0	0
62	SODIUM NITRATE	653	0	0	41	0	0
64	SULFUR COATED UREA	23	0	0	7	0	0
66	UREA	46,703	0	0	52,287	0	0
67	UREA SOLUTION	2,531	0	0	1,336	0	0
97	NITROGEN MATERIALS - ALL OTHER	137,451	0	0	217,810	0	0
98	NITROGEN MATERIALS - COMPOST	8,179	0	0	6,319	0	0
203	DIAMMONIUM PHOSPHATE	75	192	0	10	25	0
207	AMMONIUM PHOSPHATE SULFATE	2,603	3,254	0	2,578	3,223	0
209	MONOAMMONIUM PHOSPHATE	7,598	35,919	0	6,284	29,707	0
248	PHOSPHORIC ACID	0	9,559	0	0	10,139	0
249	LIQUID AMMONIUM POLYPHOSPHATE	5,644	19,189	0	6,345	21,573	0
263	NORMAL SUPERPHOSPHATE	0	7	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	528	0	0	707	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	56,583	0	0	96,997	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,305	0	0	5,898	0
428	MURIATE OF POTASH	0	0	27,976	0	0	28,522
443	SULFATE OF POTASH MAGNESIA	0	0	9,111	0	0	9,094
453	POTASSIUM NITRATE	1,853	0	5,824	988	0	3,105
463	POTASSIUM SULFATE	0	0	118,473	0	0	52,001
497	POTASSIUM MATERIALS - ALL OTHER	0	0	88,044	0	0	129,290
498	POTASSIUM MATERIALS - COMPOST	0	0	2,915	0	0	5,053
601	BLOOD MEAL	5	0	0	7	0	0
667	SEWAGE SLUDGE	17,379	5,793	2,897	11,792	3,931	1,965
0	TOTAL	647,495	188,593	318,583	651,322	200,686	242,297

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST  
 JANUARY-JUNE 2019  
 TONS OF NITROGEN MATERIALS - FARM USE AND NON-FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLYSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE SOLUTION	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER	NITROGEN MATERIALS - COMPOST	NON-FARM USE NITROGEN
ALAMEDA	0	0	0	54	0	47	1	0	0	11	0	63	0	0	40	0	220	0	325
ALPINE	0	0	0	0	0	23	0	0	0	0	0	0	0	0	4	0	0	0	0
AMADOR	0	0	0	18	0	4	0	0	6	0	0	0	0	0	7	0	12	0	1
BUTTE	0	47,016	0	0	750	6,557	815	0	616	294	0	8,141	0	0	2,146	1,100	530	163	85
CALAVERAS	0	0	0	4	0	8	0	0	1	0	0	26	0	0	3	0	11	0	10
COLUSA	359	35,712	0	0	0	3,665	1,838	0	3,582	62	0	14,155	0	0	1,671	0	2,584	199	1
CONTRA COSTA	0	0	7	29	0	115	14	0	241	58	0	1,068	0	0	107	0	329	0	220
DEL NORTE	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	6	0	5
EL DORADO	0	0	0	0	0	32	0	0	2	0	0	1	0	0	0	0	11	0	37
FRESNO	350	133	0	21	0	2,764	15,041	0	14,341	2,843	67	70,357	9	0	4,420	269	16,245	266	337
GLENN	1	11,009	0	0	0	4,813	699	0	318	21	0	6,962	0	0	265	0	512	93	18
HUMBOLDT	0	0	4	0	0	10	0	22	0	65	0	0	0	0	0	0	178	76	584
IMPERIAL	1,115	0	129	2,146	261	2,471	90	5	2,258	3	611	33,490	25	0	35,815	12	6,248	290	18
INYO	0	0	0	0	0	36	0	0	20	7	0	107	0	0	4	0	24	0	0
KERN	436	0	0	63	0	1,181	6,142	0	7,583	219	4	58,892	0	0	3,381	58	9,234	165	132
KINGS	723	5	0	0	0	92	1,094	0	3,004	170	0	35,540	0	0	2,193	99	1,740	174	139
LAKE	0	0	0	0	0	57	0	0	233	1	0	16	0	0	80	0	118	22	15
LASSEN	0	0	0	214	0	58	0	0	0	0	0	80	0	0	395	0	0	0	0
LOS ANGELES	0	0	3	1	0	211	0	0	510	35	1	247	0	0	785	130	1,105	8	20,797
MADERA	0	17	307	532	0	255	2,034	0	11,138	87	15	25,879	0	0	594	94	4,067	131	13
MARIN	0	0	0	0	0	23	0	0	0	0	0	23	0	0	0	0	30	0	98
MARIPOSA	0	0	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	7	52	0	3	0	0	33	0	174	84	286
MERCED	11	2	107	693	0	1,050	2,781	0	8,272	273	190	21,562	0	0	788	14	3,767	1	77
MODOC	0	0	0	37	0	1,140	186	0	143	0	0	374	0	0	1,730	0	1,181	47	1
MONO	0	0	0	0	0	77	0	0	0	0	0	2	0	0	46	0	12	0	4
MONTEREY	4	0	9	9,815	79	1,398	1,435	9	7,894	290	657	4,465	0	0	2,913	406	19,762	13	131
NAPA	3	0	0	0	0	4	0	0	100	193	0	32	0	0	10	0	651	5	37
NEVADA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	31	0	96
ORANGE	0	0	1	25	0	200	0	0	106	396	5	121	0	0	425	0	1,103	0	1,238
PLACER	0	1,538	0	103	0	217	0	0	2	23	0	123	0	0	64	0	198	41	356
PLUMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0	5
RIVERSIDE	50	0	0	3,548	0	450	229	0	4,455	449	0	10,299	0	0	1,252	0	2,515	154	2,859
SACRAMENTO	615	951	6	0	0	243	4	3	496	483	0	1,546	0	0	581	0	1,446	39	1,454
SAN BENITO	0	0	0	0	0	14	0	0	829	30	9	138	0	0	27	0	863	313	3
SAN BERNARDINO	0	0	3	0	0	330	0	0	102	138	0	80	0	0	292	0	871	4	1,688
SAN DIEGO	0	0	352	108	0	222	0	0	205	2,692	24	191	0	0	333	0	2,387	0	1,137
SAN FRANCISCO	0	0	0	0	0	3	0	0	0	0	0	377	0	0	42	0	1,459	0	23
SAN JOAQUIN	97	0	2	25	0	2,137	2,118	0	8,698	1,091	406	18,557	0	0	2,426	25	5,609	0	1,048
SAN LUIS OBISPO	0	0	0	578	0	196	5	0	912	51	0	545	0	6	92	42	650	3	48
SAN MATEO	0	0	8	0	0	26	0	0	0	218	0	3	0	0	72	0	504	1	412
SANTA BARBARA	0	0	0	2,343	0	274	658	0	862	663	3	5,909	0	0	364	1,117	4,037	6	176
SANTA CLARA	0	0	0	0	0	110	0	0	6	52	0	166	0	0	118	0	1,097	45	855
SANTA CRUZ	0	0	0	13	0	240	0	4	1	210	0	65	0	0	148	0	799	129	94
SHASTA	0	143	0	164	0	585	3	0	31	36	0	6	0	0	1,727	0	32	0	105
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	0	1	0	0	1,461	211	0	470	1	0	419	0	0	2,443	0	803	91	305
SOLANO	653	52	0	0	2,423	2,169	8	0	710	62	0	4,036	0	0	343	0	799	75	175
SONOMA	0	51	2	10	0	528	42	6	580	316	0	695	0	0	132	0	1,240	58	252
STANISLAUS	265	10	0	639	0	6,526	146	0	22,931	185	0	27,947	0	0	2,174	26	8,997	1	265
SUTTER	0	22,713	0	161	0	4,333	7	0	1,559	218	328	5,635	1	0	900	0	310	112	6
TEHAMA	0	47	0	0	25	1,918	0	0	318	2	0	1,911	0	0	223	0	468	1	52
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	24
TULARE	979	4	0	1	0	1,257	2,916	0	4,918	1,103	2	19,929	0	0	2,947	282	11,538	483	787
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
VENTURA	0	0	0	490	24	162	1	0	1,599	480	0	657	0	4	382	1	3,879	36	371
YOLO	92	7,110	0	0	0	1,976	0	0	1,668	22	0	4,700	0	0	2,094	1,445	585	46	91
YUBA	0	5,133	0	0	0	600	0	0	653	5	320	989	67	0	620	0	6	39	30
** UNKNOWN **	0	577	0	40	0	190	91	0	312	78	0	590	0	0	247	0	5,246	0	1,411
TOTAL	5,753	132,223	941	22,348	4,364	52,470	38,609	49	112,692	13,543	2,642	387,119	102	10	77,885	5,120	126,314	3,381	38,735

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 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE AND NON-FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	PHOSPHORUS MATERIALS - COMPOST	NON-FARM USE PHOSPHORUS	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER	POTASSIUM MATERIALS - COMPOST	NON-FARM USE POTASH
ALAMEDA	0	2	4	0	3	0	6	31	117	0	4	54	1	3	43	0	160
ALPINE	0	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0
AMADOR	0	12	0	0	0	0	0	13	0	0	6	0	0	3	16	0	0
BUTTE	0	852	3,526	0	4,183	0	0	341	181	57	3,690	97	65	4,107	885	181	34
CALAVERAS	0	0	0	0	0	0	0	7	0	15	4	0	0	0	12	0	3
COLUSA	0	2,539	1,719	0	3,215	0	0	1,484	207	3	31	809	76	1,564	2,416	217	4
CONTRA COSTA	0	0	13	3	187	0	4	174	0	70	50	9	74	156	0	0	132
DEL NORTE	0	0	0	46	0	0	0	1	0	5	0	0	0	0	3	0	1
EL DORADO	0	1	2	0	0	0	1	11	0	6	0	0	0	3	21	0	9
FRESNO	0	109	1,789	879	3,211	0	6	6,794	187	2,524	558	8,283	342	4,427	8,369	184	111
GLENN	0	527	1,981	0	70	0	0	472	103	6	154	125	14	672	1,044	103	6
HUMBOLDT	0	0	0	1	0	0	0	47	36	679	0	5	0	2	14	7	501
IMPERIAL	0	5	5,016	2,437	2,411	0	0	4,229	1,960	0	293	576	141	1,192	557	239	1
INYO	0	0	0	0	0	0	0	7	0	0	0	0	2	10	12	0	0
KERN	0	256	1,346	1,090	5,697	0	1	5,387	65	1,512	1,989	6,745	457	6,618	16,692	66	95
KINGS	0	0	350	1,575	3,994	0	0	1,576	0	10	973	1,091	10	445	2,120	14	5
LAKE	0	5	0	0	39	0	7	22	10	5	0	0	0	24	35	20	1
LASSEN	0	70	285	0	2	0	0	0	0	0	247	0	0	2	0	0	0
LOS ANGELES	4	15	63	1	26	0	12	140	3	708	119	59	13	100	103	5	434
MADERA	0	0	179	275	775	0	0	951	126	2	882	901	119	1,452	2,991	83	3
MARIN	0	0	0	0	0	0	0	0	0	44	0	0	0	0	2	0	46
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	1	0	0	0	20	0	0	54	40	360	0	0	0	104	131	75	299
MERCED	0	0	812	6	1,519	0	0	1,712	1	13	804	1,213	403	2,358	2,357	0	11
MODOC	0	2,168	733	25	407	0	0	100	0	0	410	0	0	461	59	0	0
MONO	0	0	45	0	0	0	0	1	0	4	45	22	0	0	6	0	4
MONTEREY	0	191	359	562	318	0	0	4,939	8	84	4	117	154	1,748	4,252	10	98
NAPA	0	40	13	0	16	0	0	387	2	11	0	6	113	736	5	23	8
NEVADA	0	0	0	0	0	0	0	24	0	53	0	1	0	1	4	0	8
ORANGE	1	15	14	0	26	0	34	268	0	155	2	9	5	56	248	18	149
PLACER	0	134	129	0	0	0	1	21	16	46	140	0	0	28	51	32	85
PLUMAS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
RIVERSIDE	0	8	1,923	1,131	2,538	0	12	1,322	136	1,002	828	116	295	508	465	222	449
SACRAMENTO	2	156	80	0	24	0	7	693	0	163	75	27	1	80	1,108	0	215
SAN BENITO	0	0	0	0	8	0	0	377	0	1	0	88	1	31	227	0	1
SAN BERNARDINO	0	1	289	12	0	0	10	35	2	500	134	3	7	4	43	3	461
SAN DIEGO	29	16	63	5	1	0	119	222	0	214	30	436	246	1,162	189	0	229
SAN FRANCISCO	0	0	0	0	0	0	0	14	0	22	30	76	1	0	21	0	29
SAN JOAQUIN	0	15	180	1	357	0	24	2,581	241	240	1,015	222	66	3,427	4,574	0	375
SAN LUIS OBISPO	0	3	25	1	72	0	5	338	0	125	4	131	302	240	1,402	1	78
SAN MATEO	0	0	0	2	0	2	2	131	0	59	0	2	19	30	131	0	106
SANTA BARBARA	0	2	77	42	49	0	13	2,828	1	161	67	520	187	707	1,662	3	179
SANTA CLARA	0	5	0	0	8	0	15	373	17	132	0	76	3	32	535	1	191
SANTA CRUZ	0	0	17	3	0	0	0	282	0	25	1	9	97	236	150	0	31
SHASTA	0	121	295	0	0	0	0	24	0	10	237	0	6	60	6	0	15
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	712	1,138	0	290	0	0	284	0	72	1,199	100	2	653	96	0	131
SOLANO	0	124	117	0	444	0	10	293	40	306	0	57	8	301	504	46	104
SONOMA	0	6	29	0	65	0	1	727	29	46	1	4	13	360	1,119	52	72
STANISLAUS	0	39	2,914	1	1,029	0	0	6,615	0	115	4,708	933	473	7,303	9,570	0	176
SUTTER	0	989	338	0	1,137	0	0	169	125	6	451	121	156	2,213	133	126	6
TEHAMA	0	5	844	0	34	0	0	315	2	12	40	0	44	614	358	2	16
TRINITY	0	0	0	0	0	0	0	0	0	10	0	0	0	73	0	0	7
TULARE	0	0	346	1,536	818	0	0	3,841	4	29	1,084	2,908	342	1,071	4,724	144	46
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
VENTURA	0	39	105	179	26	0	15	1,192	136	37	58	1,190	30	611	870	34	58
YOLO	0	160	302	66	1,866	0	0	335	44	766	343	111	23	1,228	924	49	56
YUBA	0	517	177	0	165	0	0	33	7	1	636	3	64	234	59	7	1
** UNKNOWN **	0	21	26	860	5,696	0	2	3,463	0	1,590	9	0	0	998	1,519	0	1,896
TOTAL	37	9,880	27,672	10,739	40,750	2	307	55,810	3,729	12,133	21,366	27,240	4,208	47,774	73,714	1,949	7,150



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COUNTY	COPPER - ALL MATERIALS	IRON - ALL MATERIALS	GYPSUM - ALL MATERIALS	LIMING MATERIALS - ALL MATERIALS	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	SECONDARY/MICRONUTRIENTS - ALL OTHER	NON-FARM USE SECONDARY/MICRONUTRIENTS	OIM BULK COMPOST - NO NUTRIENTS	
ALAMEDA	0	4	14	10	0	4	0	0	408	89	0
ALPINE	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	19	0	0	3	0	0
BUTTE	4	9	968	377	0	853	28	670	8	342	0
CALAVERAS	0	0	2	129	0	55	0	2	881	0	0
COLUSA	294	4	7,856	436	0	145	3,542	9,685	0	0	0
CONTRA COSTA	0	2	127	67	0	154	0	711	2	0	0
DEL NORTE	0	0	0	1	0	2	0	4	0	0	0
EL DORADO	0	0	0	1	0	25	0	41	6	0	0
FRESNO	162	137	112,457	5,485	367	3,846	5,016	55,344	1,066	2,008	0
GLENN	17	0	3,711	339	0	515	1	4,534	0	0	0
HUMBOLDT	0	0	76	3,973	0	0	2	133	26	0	0
IMPERIAL	0	9	1,305	11,245	0	778	1,634	14,296	3	24,309	0
INYO	0	6	1	3	0	5	0	31	1	0	0
KERN	184	106	236,053	8,563	24,066	6,583	12,464	51,017	3,482	443	0
KINGS	5	380	22,222	1,841	30	1,982	32,890	6,143	2	0	0
LAKE	0	0	429	3	0	0	0	59	1	1,425	0
LASSEN	1	2	221	2	0	208	0	3	0	0	0
LOS ANGELES	0	15	310	57	67	0	329	1,864	255	0	0
MADERA	4	17	3,343	1,053	1,636	1,094	760	6,699	5	0	0
MARIN	0	2	1	0	0	0	0	58	1	0	0
MARIPOSA	0	0	0	0	0	0	0	0	1	0	0
MENDOCINO	0	0	83	10	0	0	0	33	29	0	0
MERCED	7	14	17,457	4,610	3,870	4,034	5,930	12,715	1	0	0
MODOC	0	0	290	29	0	278	0	563	0	859	0
MONO	0	0	13	0	0	0	0	0	1	0	0
MONTEREY	26	37	1,208	20,768	0	225	394	1,252	43	21,208	0
NAPA	0	0	2,277	565	0	0	0	42	0	16,705	0
NEVADA	0	1	2	4	0	5	0	8	0	0	0
ORANGE	0	14	157	50	16	0	0	1,759	339	8,404	0
PLACER	0	1	1,532	79	0	2	0	101	57	0	0
PLUMAS	0	0	0	0	0	0	0	12	0	0	0
RIVERSIDE	3	28	345	38	5,021	131	23	2,744	1,051	7,298	0
SACRAMENTO	0	16	637	378	2,228	405	0	5,301	2,213	0	0
SAN BENITO	0	0	494	152	0	0	27	51	0	0	0
SAN BERNARDINO	1	93	119	22	18,149	0	0	343	600	8,116	0
SAN DIEGO	4	54	1,049	95	0	0	0	1,723	120	3,629	0
SAN FRANCISCO	0	1	1,372	0	0	0	0	8	1	0	0
SAN JOAQUIN	13	34	5,892	9,250	1,583	6,204	3,196	14,211	51	8	0
SAN LUIS OBISPO	5	11	812	5	0	8	0	218	2	5	0
SAN MATEO	0	74	15	154	0	2	1	120	2	0	0
SANTA BARBARA	3	29	3,431	8,979	0	240	521	6,129	3	531	0
SANTA CLARA	0	5	144	121	0	0	10	376	8	35	0
SANTA CRUZ	0	6	847	255	0	0	17	201	14	0	0
SHASTA	6	1	367	7,763	0	45	7	338	63	0	0
SIERRA	0	0	0	0	0	0	0	80	0	0	0
SISKIYOU	0	1	339	24	0	1,562	77	469	185	4,105	0
SOLANO	0	4	8,752	1,143	28,777	1	3,566	150	2	3,500	0
SONOMA	4	14	4,824	1,691	0	11	0	326	476	0	0
STANISLAUS	75	14	47,578	13,922	0	11,972	484	3,183	178	9,657	0
SUTTER	6	1	1,130	8	0	145	0	953	1	0	0
TEHAMA	0	0	1,859	308	0	3	0	36	20	0	0
TRINITY	0	0	0	4	0	0	0	1	0	0	0
TULARE	35	51	29,058	3,530	333	2,628	5,880	17,465	444	2,532	0
TUOLUMNE	0	0	0	240	0	2	0	2	1	600	0
VENTURA	0	24	539	21	312	248	834	2,972	1,195	3,533	0
YOLO	7	0	6,318	0	0	108	13	18,647	8	18,195	0
YUBA	0	0	286	573	0	7	0	19	1	0	0
** UNKNOWN **	0	11	303	408	0	0	13	479	215	0	0
<b>TOTAL</b>	<b>866</b>	<b>1,232</b>	<b>528,625</b>	<b>108,784</b>	<b>86,455</b>	<b>44,534</b>	<b>77,659</b>	<b>244,735</b>	<b>13,170</b>	<b>137,447</b>	<b>0</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	NON-FARM USE DRY	NON-FARM USE LIQUID	NON-FARM USE TOTAL	TOTAL ALL
ALAMEDA	677	72	278	1,027	409	2	29	440	636	55	691	1,718
ALPINE	0	43	0	43	0	0	0	0	0	0	0	43
AMADOR	13	46	60	119	3	0	19	22	1	0	1	120
BUTTE	3,300	22,499	63,688	89,487	545	1,688	676	2,909	166	18	184	89,671
CALAVERAS	10	175	79	264	3	152	33	188	908	1	909	1,173
COLUSA	6,071	17,323	76,672	100,066	2,446	6,842	12,674	21,962	5	3	8	100,074
CONTRA COSTA	1,009	630	1,990	3,629	559	323	179	1,061	376	48	424	4,053
DEL NORTE	54	12	46	112	5	2	0	7	4	7	11	123
EL DORADO	77	30	49	156	37	0	30	67	51	7	58	214
FRESNO	36,236	132,760	177,890	346,886	10,172	123,470	49,172	182,814	1,607	2,431	4,038	350,924
GLENN	1,988	12,855	24,232	39,075	779	3,944	4,394	9,117	16	14	30	39,105
HUMBOLDT	347	4,290	14	4,651	216	3,966	2	4,184	1,652	138	1,790	6,441
IMPERIAL	10,570	86,654	60,377	157,601	625	22,613	6,029	29,267	20	2	22	157,623
INYO	114	34	131	279	44	0	2	46	1	0	1	280
KERN	23,174	302,367	147,705	473,246	10,617	287,486	40,933	339,036	3,736	1,485	5,221	478,467
KINGS	5,571	28,184	88,707	122,462	2,790	24,752	37,951	65,493	130	26	156	122,618
LAKE	334	1,875	396	2,605	95	359	37	491	18	4	22	2,627
LASSEN	4	1,281	505	1,790	4	224	209	437	0	0	0	1,790
LOS ANGELES	4,187	20,201	1,319	25,707	2,078	163	401	2,642	2,522	306	2,828	28,535
MADERA	4,194	8,453	55,863	68,510	1,601	5,820	7,185	14,606	11	12	23	68,533
MARIN	83	21	35	139	52	0	9	61	189	0	189	328
MARIPOSA	0	0	0	0	0	0	0	0	1	0	1	1
MENDOCINO	457	246	202	905	93	0	33	126	895	79	974	1,879
MERCED	11,800	27,451	60,080	99,331	6,693	21,868	20,076	48,637	92	6	98	99,429
MODOC	0	10,959	261	11,220	0	1,157	3	1,160	1	0	1	11,221
MONO	4	248	17	269	0	13	0	13	12	1	13	282
MONTEREY	7,647	50,049	49,233	106,929	3,973	18,859	1,078	23,910	295	61	356	107,285
NAPA	722	20,681	502	21,905	111	2,752	21	2,884	71	0	71	21,976
NEVADA	76	0	7	83	15	0	5	20	144	30	174	257
ORANGE	3,807	8,791	882	13,480	1,816	42	138	1,996	1,434	447	1,881	15,361
PLACER	532	2,134	1,910	4,576	200	1,512	3	1,715	522	22	544	5,120
PLUMAS	21	0	2	23	12	0	0	12	7	0	7	30
RIVERSIDE	6,280	18,154	24,102	48,536	1,882	5,534	917	8,333	4,664	697	5,361	53,897
SACRAMENTO	2,275	8,809	6,547	17,631	932	7,471	562	8,965	3,064	981	4,045	21,676
SAN BENITO	596	1,061	2,022	3,679	393	245	86	724	5	0	5	3,684
SAN BERNARDINO	1,918	27,120	168	29,206	550	18,173	4	18,727	3,134	115	3,249	32,455
SAN DIEGO	10,927	3,904	756	15,587	2,812	89	25	2,926	1,668	31	1,699	17,286
SAN FRANCISCO	1,579	1,413	458	3,450	3	1,371	7	1,381	58	14	72	3,522
SAN JOAQUIN	6,904	27,165	60,216	94,285	2,904	16,271	21,208	40,383	1,674	40	1,714	95,999
SAN LUIS OBISPO	1,232	963	4,473	6,668	229	701	129	1,059	247	6	253	6,921
SAN MATEO	1,462	38	17	1,517	364	0	2	366	557	22	579	2,096
SANTA BARBARA	5,614	13,763	22,880	42,257	2,188	12,429	4,715	19,332	510	9	519	42,776
SANTA CLARA	1,749	726	909	3,384	566	55	35	656	1,122	30	1,152	4,536
SANTA CRUZ	1,550	1,584	596	3,730	240	998	88	1,326	158	6	164	3,894
SHASTA	544	11,028	441	12,013	421	7,868	238	8,527	119	74	193	12,206
SIERRA	0	80	0	80	0	80	0	80	0	0	0	80
SISKIYOU	613	15,386	952	16,951	182	2,172	118	2,472	687	6	693	17,644
SOLANO	936	19,135	39,096	59,167	372	9,576	32,445	42,393	332	255	587	59,754
SONOMA	2,424	8,073	2,439	12,936	636	6,102	132	6,870	774	72	846	13,782
STANISLAUS	17,507	98,560	74,450	190,517	3,376	63,074	10,778	77,228	672	62	734	191,251
SUTTER	1,301	9,913	34,066	45,280	526	856	861	2,243	13	6	19	45,299
TEHAMA	166	6,763	2,448	9,377	12	2,178	16	2,206	99	1	100	9,477
TRINITY	12	73	1	86	4	0	1	5	36	5	41	127
TULARE	10,144	45,284	69,261	124,689	4,197	35,070	19,713	58,980	1,008	298	1,306	125,995
TUOLUMNE	240	600	4	844	240	0	4	244	4	0	4	848
VENTURA	6,222	6,214	8,247	20,683	1,741	616	2,593	4,950	1,632	29	1,661	22,344
YOLO	1,199	47,083	20,198	68,480	502	24,267	324	25,093	219	701	920	69,400
YUBA	305	3,529	7,859	11,693	133	735	17	885	33	0	33	11,726
** UNKNOWN **	952	10,174	9,432	20,558	205	975	34	1,214	4,994	738	5,732	26,290
<b>TOTAL</b>	<b>207,730</b>	<b>1,146,959</b>	<b>1,205,170</b>	<b>2,559,859</b>	<b>71,603</b>	<b>744,915</b>	<b>276,373</b>	<b>1,092,891</b>	<b>43,006</b>	<b>9,401</b>	<b>52,407</b>	<b>2,612,266</b>

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**JANUARY-JUNE 2019**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NON-FARM**

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	607	154	219	981	481	127	175	783	126	27	44	197
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	24	15	21	60	14	11	13	38	10	4	8	22
BUTTE	16,719	4,005	5,417	26,141	3,679	2,495	4,896	11,071	13,040	1,510	521	15,071
CALAVERAS	33	22	17	73	19	17	11	47	14	5	6	25
COLUSA	18,055	4,189	3,649	25,893	3,153	2,018	1,617	6,788	14,902	2,171	2,032	19,105
CONTRA COSTA	1,045	248	359	1,652	517	134	210	861	528	114	149	791
DEL NORTE	18	31	4	53	15	2	4	21	3	29	0	32
EL DORADO	56	19	32	107	54	13	20	86	2	6	12	20
FRESNO	47,612	12,034	13,189	72,835	8,951	2,061	6,941	17,953	38,661	9,972	6,248	54,882
GLENN	6,638	1,740	1,615	9,994	1,857	1,358	1,419	4,634	4,781	383	196	5,360
HUMBOLDT	854	763	524	2,140	840	642	518	2,000	14	121	6	141
IMPERIAL	37,093	10,934	1,758	49,784	20,459	5,332	1,351	27,142	16,634	5,602	407	22,643
INYO	73	9	18	100	35	8	17	60	38	1	1	40
KERN	34,888	10,722	23,281	68,892	4,847	1,763	13,126	19,735	30,041	8,960	10,155	49,156
KINGS	16,170	3,977	3,190	23,337	2,124	263	1,225	3,612	14,046	3,714	1,965	19,726
LAKE	253	54	68	376	177	23	39	239	77	31	29	137
LASSEN	305	163	149	617	236	162	149	548	69	1	0	69
LOS ANGELES	22,532	905	683	24,120	22,216	848	604	23,668	317	57	78	452
MADERA	15,419	1,617	4,604	21,640	830	368	1,586	2,784	14,589	1,249	3,018	18,856
MARIN	140	44	48	232	132	44	46	222	8	0	2	10
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	572	461	557	1,590	517	421	424	1,363	54	40	133	227
MERCED	13,874	2,745	4,512	21,132	2,640	956	3,095	6,690	11,234	1,790	1,418	14,442
MODOC	2,906	1,067	536	4,508	2,841	1,046	536	4,422	65	21	0	86
MONO	59	28	42	129	49	27	37	114	10	1	5	16
MONTEREY	26,901	5,667	5,330	37,898	6,637	1,277	2,356	10,270	20,263	4,391	2,974	27,628
NAPA	767	420	823	2,011	685	356	603	1,644	82	64	220	367
NEVADA	128	77	13	217	105	72	10	186	23	5	3	31
ORANGE	2,710	459	449	3,617	2,042	277	285	2,604	668	182	163	1,013
PLACER	1,077	177	266	1,520	680	147	258	1,085	397	30	8	435
PLUMAS	15	1	1	17	13	1	1	15	2	0	0	2
RIVERSIDE	11,906	5,041	2,092	19,040	6,376	3,282	1,762	11,420	5,530	1,760	330	7,620
SACRAMENTO	4,777	986	1,437	7,199	1,852	352	451	2,654	2,924	634	986	4,544
SAN BENITO	1,387	381	263	2,031	607	167	114	888	780	214	149	1,143
SAN BERNARDINO	3,953	1,062	775	5,789	3,873	1,044	764	5,681	80	17	11	108
SAN DIEGO	4,421	543	1,221	6,185	4,143	499	1,184	5,826	277	45	37	359
SAN FRANCISCO	1,663	36	85	1,784	1,497	19	60	1,576	167	17	25	209
SAN JOAQUIN	16,422	3,323	7,365	27,111	4,755	1,503	4,172	10,430	11,667	1,820	3,194	16,681
SAN LUIS OBISPO	1,301	504	1,765	3,570	302	204	428	934	999	299	1,337	2,636
SAN MATEO	995	192	261	1,448	978	186	251	1,415	17	6	10	33
SANTA BARBARA	7,393	3,076	2,434	12,903	1,425	696	1,195	3,316	5,967	2,380	1,240	9,587
SANTA CLARA	2,138	533	761	3,432	1,744	411	498	2,653	394	122	263	779
SANTA CRUZ	1,211	317	344	1,873	909	211	301	1,420	303	107	44	453
SHASTA	1,183	212	196	1,591	1,142	204	189	1,535	41	8	7	56
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	3,138	1,189	1,296	5,622	2,963	1,154	1,295	5,412	175	35	1	211
SOLANO	5,920	1,456	1,108	8,484	1,779	401	642	2,823	4,141	1,055	466	5,661
SONOMA	2,121	841	1,430	4,392	1,598	657	841	3,096	523	184	589	1,296
STANISLAUS	25,368	8,803	16,636	50,807	8,152	5,832	12,420	26,405	17,216	2,971	4,216	24,403
SUTTER	9,012	1,060	1,737	11,809	2,059	568	1,018	3,645	6,953	492	720	8,165
TEHAMA	1,810	780	726	3,317	1,076	757	670	2,504	733	24	56	813
TRINITY	32	10	44	86	30	8	43	81	2	2	1	5
TULARE	23,205	5,168	6,893	35,266	4,302	1,086	3,045	8,433	18,902	4,082	3,849	26,833
TUOLUMNE	2	0	1	3	2	0	1	3	0	0	0	0
VENTURA	5,198	1,546	1,580	8,324	2,962	780	1,171	4,913	2,236	767	409	3,411
YOLO	5,926	2,004	1,883	9,814	973	385	1,334	2,692	4,953	1,619	549	7,121
YUBA	2,264	293	594	3,151	586	235	567	1,389	1,678	57	27	1,762
** UNKNOWN **	7,774	7,473	3,919	19,166	5,473	4,858	3,626	13,957	2,301	2,615	293	5,209
<b>TOTAL</b>	<b>418,073</b>	<b>109,579</b>	<b>128,228</b>	<b>655,881</b>	<b>148,414</b>	<b>47,769</b>	<b>79,619</b>	<b>275,802</b>	<b>269,659</b>	<b>61,811</b>	<b>48,610</b>	<b>380,079</b>

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 TONS OF NITROGEN MATERIALS - FARM USE AND NON-FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLYSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE SOLUTION	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER	NITROGEN MATERIALS - COMPOST	NON-FARM USE NITROGEN	
ALAMEDA	0	0	0	0	54	0	66	1	0	43	0	69	0	0	41	0	631	0	3,433
ALPINE	0	0	0	0	18	0	23	0	0	0	0	0	0	0	4	0	0	0	0
AMADOR	0	0	0	0	18	0	10	0	0	48	0	0	0	0	7	0	37	0	1
BUTTE	0	47,325	0	0	0	750	8,346	815	0	694	391	10,535	0	2,859	1,100	738	183	463	
CALAVERAS	0	0	0	0	4	0	30	0	0	3	0	26	0	0	3	32	0	13	
COLUSA	644	40,505	0	0	0	5,902	2,097	0	4,406	64	0	16,693	0	0	2,007	3,091	267	1	
CONTRA COSTA	0	0	12	29	0	197	24	0	866	77	0	1,509	0	0	385	0	648	505	
DEL NORTE	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	7	0	10	
EL DORADO	0	15	0	0	0	0	34	0	0	2	12	2	0	0	1	35	0	72	
FRESNO	817	149	22	204	0	4,096	20,437	0	20,219	3,422	212	102,324	9	5,671	353	30,701	547	571	
GLENN	2	11,992	0	0	0	6,464	760	0	481	25	0	8,162	0	0	371	0	651	31	
HUMBOLDT	0	0	4	0	0	10	0	22	0	124	0	0	0	0	0	201	79	1,494	
IMPERIAL	1,735	0	181	5,004	261	4,039	99	5	3,892	3	3,069	59,739	181	56,312	12	10,129	831	26	
INYO	0	0	0	0	0	59	0	0	40	14	0	110	0	5	0	51	0	0	
KERN	1,122	0	1	76	0	1,565	7,388	0	10,538	301	4	79,225	0	0	4,141	113	13,969	471	
KINGS	2,828	6	0	0	0	152	1,149	0	3,810	171	0	49,678	0	2,681	144	4,336	633	141	
LAKE	0	0	0	3	0	95	0	0	393	1	0	157	0	0	149	0	28	21	
LASSEN	0	0	0	337	0	65	0	0	0	13	0	157	0	851	0	4	0	0	
LOS ANGELES	0	123	7	1	0	352	2	0	512	68	1	1,274	0	1,031	130	4,306	17	23,328	
MADERA	0	28	307	706	0	397	3,236	0	13,439	87	30	31,329	0	643	167	5,140	275	20	
MARIN	0	0	0	0	0	23	0	2	0	0	0	23	0	0	0	83	0	224	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
MENDOCINO	0	0	0	0	0	1	0	0	13	58	0	16	0	45	5	227	119	570	
MERCED	166	3	119	856	0	2,520	4,209	0	10,324	329	191	31,885	0	1,072	43	6,536	75	102	
MODOC	0	0	0	90	0	1,248	238	0	150	0	0	1,022	0	2,348	1	1,338	47	1	
MONO	0	0	0	0	0	80	0	0	0	0	0	2	0	49	0	18	0	5	
MONTEREY	4	0	18	18,370	79	2,383	2,427	12	14,312	549	1,271	8,557	0	4,324	799	36,257	40	324	
NAPA	6	0	1	0	0	6	0	0	180	274	0	38	0	11	0	1,683	35	46	
NEVADA	0	0	0	0	0	14	0	0	0	7	0	0	0	0	1	38	0	128	
ORANGE	0	0	5	25	0	270	0	0	223	419	5	2,835	0	0	497	0	3,822	1,753	
PLACER	0	1,589	0	127	0	311	0	0	4	26	0	132	0	0	76	0	322	848	
PLUMAS	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	23	0	5	
RIVERSIDE	131	0	0	6,478	0	723	616	0	6,723	864	2	15,697	0	1,504	0	5,959	246	4,789	
SACRAMENTO	708	1,328	9	36	0	535	4	3	729	495	0	2,529	0	794	0	2,832	39	2,248	
SAN BENITO	0	0	0	29	0	33	0	0	1,456	60	9	245	0	71	0	1,805	314	5	
SAN BERNARDINO	0	0	3	0	0	391	0	0	108	184	0	125	0	502	0	1,418	11	5,935	
SAN DIEGO	0	0	666	219	0	298	0	0	482	2,882	97	522	0	514	0	4,635	0	1,842	
SAN FRANCISCO	0	0	0	0	0	3	0	0	0	0	0	377	0	0	43	1,501	0	60	
SAN JOAQUIN	113	1	2	25	0	2,789	2,557	2	10,478	1,292	820	27,365	0	3,593	25	7,990	0	1,522	
SAN LUIS OBISPO	0	77	0	1,084	0	547	9	0	1,308	92	13	1,083	10	131	55	1,514	12	96	
SAN MATEO	0	0	14	0	0	45	0	0	0	245	0	134	0	79	0	875	2	498	
SANTA BARBARA	0	0	0	4,531	0	541	1,610	0	1,782	923	10	12,347	0	531	1,976	8,794	23	341	
SANTA CLARA	0	0	0	0	0	124	3	0	8	81	0	196	0	183	0	1,910	111	1,269	
SANTA CRUZ	0	0	0	24	0	437	0	4	1	244	0	87	0	194	0	2,375	129	225	
SHASTA	428	143	7	406	0	776	5	0	55	39	0	99	0	3,634	0	120	0	167	
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	
SISKIYOU	0	0	1	0	0	1,649	344	0	874	1	0	647	0	0	0	1,045	91	378	
SOLANO	1,395	208	0	0	2,423	2,726	8	0	1,020	63	0	6,050	0	429	0	1,295	214	401	
SONOMA	0	102	10	10	0	553	43	9	825	484	0	723	0	160	0	1,888	105	610	
STANISLAUS	1,078	20	0	793	0	8,781	208	0	26,950	403	0	39,538	0	3,324	26	10,691	302	362	
SUTTER	0	24,841	0	176	0	802	2,820	16	2,116	924	474	7,287	2	1,244	0	444	170	3	
TEHAMA	0	94	0	0	0	2,004	5	0	406	4	0	2,474	0	257	0	528	1	60	
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	9	25	
TULARE	1,485	4	0	8	0	2,105	3,351	0	5,790	1,738	2	26,799	0	3,939	285	16,558	555	843	
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
VENTURA	0	0	0	1,033	24	188	1	0	3,279	487	0	912	0	10	453	1	7,512	2,115	
YOLO	227	9,179	0	0	0	6,044	0	0	3,205	26	0	7,579	0	2,502	1,445	1,477	131	173	
YUBA	0	5,442	0	473	0	942	0	0	1,071	16	344	1,205	67	651	0	132	20	32	
** UNKNOWN **	0	659	0	87	0	413	91	0	382	82	0	780	0	369	0	9,244	0	5,515	
TOTAL	12,889	143,933	1,389	41,418	4,364	79,225	51,754	59	153,587	18,161	6,554	559,299	259	20	113,667	6,680	217,810	6,319	64,041

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 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE AND NON-FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	PHOSPHORUS MATERIALS - COMPOST	NON-FARM USE PHOSPHORUS	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER	POTASSIUM MATERIALS - COMPOST	NON-FARM USE POTASH
ALAMEDA	0	2	4	0	10	0	8	97	0	149	5	54	1	11	60	0	233
ALPINE	0	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0
AMADOR	0	30	0	0	0	0	0	23	0	0	25	0	0	53	0	0	
BUTTE	0	871	3,807	0	4,251	0	0	388	203	593	4,062	437	78	8,190	1,108	203	559
CALAVERAS	0	0	1	0	0	0	0	17	0	17	4	0	0	0	16	0	4
COLUSA	0	3,072	1,853	304	3,713	0	0	1,806	280	3	63	2,061	119	3,212	2,807	291	4
CONTRA COSTA	0	0	156	6	601	0	5	318	0	179	98	40	18	230	840	0	298
DEL NORTE	0	0	0	191	0	0	0	107	0	8	0	0	0	0	77	0	3
EL DORADO	0	2	5	0	0	0	3	28	0	12	0	0	0	6	49	0	15
FRESNO	3	109	3,166	2,419	6,500	0	37	13,486	236	2,544	1,604	11,924	457	10,215	21,591	312	275
GLENN	0	943	2,238	0	112	0	0	587	106	10	281	132	17	3,325	1,258	106	18
HUMBOLDT	0	0	0	1	0	0	0	86	37	1,223	0	7	0	2	21	9	835
IMPERIAL	0	5	19,474	3,026	6,576	0	596	9,294	2,720	1,878	379	653	152	2,857	984	898	1
INYO	0	0	84	4	0	0	0	39	0	0	19	0	4	23	24	0	1
KERN	11	260	2,442	1,990	9,025	0	411	8,557	375	1,520	6,945	8,474	619	8,633	24,498	371	132
KINGS	2	2,676	764	2,959	6,361	0	0	2,747	144	2,100	1,564	1,550	137	2,049	3,738	510	6
LAKE	0	18	1	0	187	0	0	41	13	10	14	0	0	49	73	25	3
LASSEN	0	165	378	0	2	0	0	10	0	291	0	0	0	17	14	0	0
LOS ANGELES	4	25	241	1	84	0	35	826	8	1,327	314	847	25	138	706	12	699
MADERA	0	0	972	332	1,538	0	0	1,328	0	1,764	2	1,228	195	2,588	3,764	110	4
MARIN	0	0	0	0	0	0	0	3	0	574	0	0	0	0	2	0	578
MARIPOSA	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
MENDOCINO	1	0	0	0	20	0	1	129	57	717	47	11	13	203	207	106	583
MERCED	0	0	1,653	11	2,275	0	2	3,265	53	13	5,026	2,575	571	5,712	4,967	146	12
MODOC	0	2,787	1,054	43	423	0	0	100	0	497	0	0	0	599	82	0	0
MONO	0	0	358	0	0	0	0	5	0	4	47	0	0	0	7	0	4
MONTEREY	0	191	899	1,036	497	0	46	9,006	35	744	1,048	165	493	4,781	10,043	192	214
NAPA	0	80	26	0	30	0	0	774	16	12	0	4	12	222	1,764	31	28
NEVADA	0	0	3	0	3	0	0	145	0	70	0	1	0	9	18	0	16
ORANGE	1	18	14	0	27	0	40	666	0	343	2	62	15	94	606	18	277
PLACER	1	138	148	0	0	0	2	82	16	257	192	0	0	46	82	32	346
PLUMAS	0	11	0	0	0	0	0	0	0	2	0	0	0	2	1	0	2
RIVERSIDE	0	9	4,404	2,275	6,229	0	20	2,447	208	2,605	1,086	321	345	693	1,566	388	1,104
SACRAMENTO	2	329	163	0	33	0	10	1,079	0	455	239	27	9	181	1,893	0	331
SAN BENITO	0	0	18	0	8	0	0	843	1	3	0	277	1	40	515	3	3
SAN BERNARDINO	0	1	303	14	0	0	11	80	6	1,094	134	4	10	15	70	8	938
SAN DIEGO	29	24	352	182	4	0	135	819	0	454	105	705	615	1,828	423	0	456
SAN FRANCISCO	0	0	0	0	0	0	0	14	0	42	30	76	6	2	22	0	47
SAN JOAQUIN	0	18	446	24	533	0	46	3,780	241	432	2,494	640	132	7,749	7,550	0	558
SAN LUIS OBISPO	0	33	25	2	121	0	6	590	12	161	11	432	694	555	2,254	11	105
SAN MATEO	0	0	53	2	0	3	2	216	1	83	0	2	36	34	210	2	153
SANTA BARBARA	0	4	85	55	81	0	24	5,227	9	184	158	970	290	1,587	4,769	15	216
SANTA CLARA	0	5	2	0	8	0	18	620	42	237	8	77	11	130	1,000	54	319
SANTA CRUZ	0	0	19	3	1	0	1	564	67	58	15	13	208	564	344	180	91
SHASTA	0	308	493	0	0	0	0	36	0	83	370	0	15	165	11	0	121
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	766	1,532	0	308	0	0	409	0	85	1,450	100	2	931	159	0	150
SOLANO	0	720	266	0	809	0	10	661	138	931	370	61	9	674	1,054	151	153
SONOMA	0	9	86	0	125	0	27	1,365	52	174	1	97	45	707	2,112	94	203
STANISLAUS	0	48	5,949	1	1,961	0	0	8,247	131	150	11,858	1,907	826	20,914	12,122	188	230
SUTTER	0	1,270	522	0	1,162	0	0	250	189	9	666	162	202	3,146	310	190	10
TEHAMA	0	10	925	0	85	0	0	344	0	2	68	0	51	2,541	434	2	20
TRINITY	0	0	0	0	0	0	0	0	0	17	0	0	0	73	0	8	9
TULARE	1	0	502	2,597	1,425	0	0	4,873	11	3,605	2,472	3,858	399	2,124	7,147	169	56
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
VENTURA	0	142	250	337	39	0	31	1,920	155	43	132	1,225	74	1,448	1,498	53	64
YOLO	0	428	718	100	1,970	0	0	549	131	862	723	128	51	2,384	1,763	141	117
YUBA	0	553	192	0	166	0	0	81	23	1	794	6	100	655	117	23	2
** UNKNOWN **	0	35	77	860	5,746	0	2	8,017	0	2,391	48	0	0	1,595	2,487	0	2,661
TOTAL	55	16,115	57,128	18,715	63,449	3	1,536	96,997	5,698	28,497	47,536	41,335	7,957	104,001	129,290	5,053	13,288

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 TONS OF AGRICULTURAL MINERALS AND BULK COMPOST - FARM USE AND NON-FARM USE

COUNTY	COPPER - ALL MATERIALS	IRON - ALL MATERIALS	GYPSUM - ALL MATERIALS	LIMING MATERIALS - ALL MATERIALS	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	SECONDARY/MICRONUTRIENTS - ALL OTHER	NON-FARM USE SECONDARY/MICRONUTRIENTS	OIM BULK COMPOST - NO NUTRIENTS
ALAMEDA	0	7	47	17	0	8	0	423	99	3,502
ALPINE	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	73	0	59	0	3	0	0
BUTTE	4	9	6,344	2,298	0	1,407	44	4,683	30	7,157
CALAVERAS	0	0	8	258	0	73	0	2	1,946	0
COLUSA	297	5	36,644	3,195	0	432	3,922	12,705	0	0
CONTRA COSTA	0	5	591	190	0	1,234	0	943	3	0
DEL NORTE	0	0	0	1	0	2	0	5	0	0
EL DORADO	0	0	52	1,691	0	65	0	50	30	0
FRESNO	215	218	323,707	7,552	3,457	11,132	11,643	102,392	1,500	4,746
GLENN	17	0	13,189	3,321	0	1,564	1	6,138	0	5,600
HUMBOLDT	0	0	84	4,157	0	0	2	216	52	0
IMPERIAL	0	62	1,907	84,755	97	1,166	2,913	18,902	136	57,167
INYO	0	12	2	1,256	0	19	0	38	1	0
KERN	371	116	391,902	11,222	55,886	19,006	33,866	72,822	4,219	643
KINGS	7	984	158,328	5,289	205	7,820	63,893	12,885	2	1,000
LAKE	0	0	1,299	3	0	0	0	72	2	3,431
LASSEN	1	2	1,126	243	0	401	0	3	0	0
LOS ANGELES	0	41	636	158	83	0	806	2,686	492	0
MADERA	9	21	8,486	1,678	19,642	1,896	974	8,160	31	0
MARIN	0	2	3	1	0	0	0	61	1	500
MARIPOSA	0	0	0	0	0	0	2,305	0	1	0
MENDOCINO	0	0	108	14	0	0	0	41	101	0
MERCED	9	18	46,714	13,569	10,071	6,903	9,544	23,131	1	0
MODOC	0	0	1,893	568	0	638	9	576	0	1,503
MONO	0	0	13	0	0	6	0	0	1	0
MONTEREY	68	115	9,094	62,437	0	536	525	2,438	71	164,640
NAPA	0	0	4,137	1,132	0	1	0	86	753	24,201
NEVADA	0	1	2	4	0	74	0	13	19	0
ORANGE	0	28	352	79	16	10	0	2,322	763	8,410
PLACER	0	2	3,414	162	0	12	0	120	266	0
PLUMAS	0	0	0	0	0	0	0	12	0	0
RIVERSIDE	3	168	2,442	54	24,696	138	23	3,959	2,351	29,376
SACRAMENTO	0	41	1,176	612	4,430	1,369	0	8,590	2,426	0
SAN BENITO	0	0	4,648	273	0	0	40	72	0	253
SAN BERNARDINO	1	192	229	2,822	23,084	8	0	442	1,251	8,116
SAN DIEGO	6	111	1,825	140	0	37	0	2,117	828	6,041
SAN FRANCISCO	0	5	1,375	75	0	0	0	10	1	0
SAN JOAQUIN	13	70	26,759	26,621	1,583	13,306	3,526	24,634	208	8
SAN LUIS OBISPO	8	23	983	8	0	8	0	390	2	5
SAN MATEO	0	84	63	213	0	3	2	151	5	64
SANTA BARBARA	11	67	13,237	16,146	0	2,112	562	13,169	4	531
SANTA CLARA	0	12	3,338	587	0	18	13	468	30	35
SANTA CRUZ	0	34	5,681	1,090	0	337	27	303	21	0
SHASTA	21	7	1,707	16,565	0	313	45	344	118	165
SIERRA	0	0	0	0	0	0	0	80	0	0
SISKIYOU	2	1	1,319	245	0	2,412	146	523	185	5,406
SOLANO	0	4	20,277	2,802	52,322	314	3,566	2,467	104	7,000
SONOMA	5	44	8,489	9,039	0	26	0	475	1,190	10,206
STANISLAUS	85	25	129,727	42,293	0	22,683	1,099	4,500	203	12,375
SUTTER	6	1	5,169	416	0	808	0	1,568	1	0
TEHAMA	0	0	4,014	1,524	0	87	0	56	25	0
TRINITY	0	0	0	4	0	0	0	1	0	0
TULARE	83	115	73,412	7,296	333	8,163	17,748	28,361	784	2,568
TUOLUMNE	0	0	0	415	0	2	0	2	1	14,415
VENTURA	1	77	1,300	31	622	343	882	3,932	1,204	12,339
YOLO	13	0	24,206	170	0	513	133	38,501	13	56,659
YUBA	0	0	3,045	1,344	0	82	0	32	17	0
** UNKNOWN **	0	11	615	459	0	0	13	723	787	10
<b>TOTAL</b>	<b>1,256</b>	<b>2,740</b>	<b>1,345,118</b>	<b>336,567</b>	<b>196,527</b>	<b>107,546</b>	<b>158,272</b>	<b>407,798</b>	<b>22,279</b>	<b>448,072</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	NON-FARM USE DRY	NON-FARM USE LIQUID	NON-FARM USE TOTAL	TOTAL ALL
ALAMEDA	1,268	3,590	303	5,161	466	2	34	502	2,220	1,694	3,914	9,075
ALPINE	0	43	0	43	0	0	0	0	0	0	0	43
AMADOR	58	201	160	419	3	76	56	135	1	0	1	420
BUTTE	4,284	47,470	67,526	119,280	643	13,301	845	14,789	413	1,232	1,645	120,925
CALAVERAS	22	347	108	477	9	281	51	341	1,978	2	1,980	2,457
COLUSA	8,776	55,259	88,422	152,457	4,926	38,471	13,803	57,200	5	3	8	152,465
CONTRA COSTA	1,494	2,506	5,022	9,022	742	1,130	1,091	2,963	889	96	985	10,007
DEL NORTE	60	193	191	444	6	2	0	8	10	11	21	465
EL DORADO	134	1,771	142	2,047	42	1,741	75	1,858	117	12	129	2,176
FRESNO	46,303	405,839	274,109	726,251	13,624	377,647	69,045	460,316	2,320	2,570	4,890	731,141
GLENN	2,337	38,311	27,303	67,951	1,064	18,376	4,790	24,230	35	21	56	68,007
HUMBOLDT	546	4,502	14	5,062	328	4,129	2	4,459	2,801	803	3,604	8,666
IMPERIAL	12,685	237,942	109,448	360,075	1,111	98,803	9,888	109,802	161	1,880	2,041	362,116
INYO	204	1,434	165	1,803	71	1,252	4	1,327	3	0	3	1,806
KERN	31,874	528,945	215,530	776,349	15,082	503,146	66,963	585,191	4,756	1,516	6,272	782,621
KINGS	7,859	184,379	148,962	341,200	4,047	174,495	70,869	249,411	133	2,116	2,249	343,449
LAKE	454	4,847	899	6,200	130	1,207	37	1,374	26	10	36	6,236
LASSEN	32	2,380	1,668	4,080	4	493	1,279	1,776	0	0	0	4,080
LOS ANGELES	7,999	21,531	5,401	34,931	2,999	515	896	4,410	5,876	600	6,476	41,407
MADERA	5,062	36,720	69,263	111,045	1,812	30,569	8,485	40,866	42	15	57	111,102
MARIN	145	521	37	703	58	0	9	67	1,374	3	1,377	2,080
MARIPOSA	0	2	2,306	2,308	0	0	2,305	2,305	1	0	1	2,309
MENDOCINO	644	462	336	1,442	123	1	39	163	1,756	215	1,971	3,413
MERCED	14,467	91,831	88,244	194,542	7,175	75,525	27,259	109,959	120	8	128	194,670
MODOC	3	14,758	2,493	17,254	3	2,211	1,470	3,684	1	0	1	17,255
MONO	5	579	23	607	0	19	0	19	13	1	14	621
MONTEREY	16,567	256,122	85,006	357,695	6,847	66,748	1,626	75,221	665	680	1,345	359,040
NAPA	1,493	32,283	994	34,770	165	5,131	60	5,356	837	2	839	35,609
NEVADA	223	67	43	333	19	43	32	94	193	40	233	566
ORANGE	6,545	9,528	4,808	20,881	2,198	288	321	2,807	2,397	739	3,136	24,017
PLACER	817	4,279	1,981	7,077	261	3,443	6	3,710	1,637	80	1,717	8,794
PLUMAS	37	11	4	52	12	0	0	12	9	0	9	61
RIVERSIDE	10,878	66,944	41,873	119,695	2,770	27,390	1,323	31,483	9,923	904	10,827	130,522
SACRAMENTO	3,862	16,494	9,948	30,304	1,183	14,018	1,017	16,218	3,684	1,696	5,380	35,684
SAN BENITO	1,331	5,650	4,033	11,014	910	4,016	107	5,033	9	2	11	11,025
SAN BERNARDINO	2,954	35,050	288	38,292	867	25,901	10	26,778	7,466	1,752	9,218	47,510
SAN DIEGO	17,049	6,712	2,053	25,814	4,074	111	52	4,237	3,411	168	3,579	29,393
SAN FRANCISCO	1,666	1,413	460	3,539	87	1,371	7	1,465	120	30	150	3,689
SAN JOAQUIN	9,210	83,841	84,174	177,225	3,962	63,857	28,693	96,512	2,656	64	2,720	179,945
SAN LUIS OBISPO	2,723	1,551	7,832	12,106	299	847	274	1,420	355	9	364	12,470
SAN MATEO	2,212	145	178	2,535	459	30	27	516	698	41	739	3,274
SANTA BARBARA	8,315	37,995	45,967	92,277	2,543	35,168	7,593	45,304	731	14	745	93,022
SANTA CLARA	3,058	4,705	1,333	9,096	1,173	3,185	78	4,436	1,772	49	1,821	10,917
SANTA CRUZ	3,234	8,721	992	12,947	469	6,844	159	7,472	380	14	394	13,341
SHASTA	728	22,141	3,408	26,277	437	16,151	2,414	19,002	148	341	489	26,766
SIERRA	4	80	0	84	0	80	0	80	0	0	0	84
SISKIYOU	645	20,777	1,970	23,392	189	4,272	187	4,648	791	7	798	24,190
SOLANO	1,757	40,504	67,245	109,506	1,162	24,156	56,434	81,752	705	884	1,589	111,095
SONOMA	3,977	30,358	3,681	38,016	1,017	16,848	213	18,078	1,593	584	2,177	40,193
STANISLAUS	21,728	249,028	98,297	369,053	5,756	180,883	13,773	200,412	866	79	945	369,998
SUTTER	1,946	20,344	40,167	62,457	901	5,597	1,470	7,968	20	9	29	62,486
TEHAMA	242	12,323	3,376	15,941	23	5,629	29	5,681	118	4	122	16,063
TRINITY	12	94	6	112	4	0	1	5	41	10	51	163
TULARE	14,777	108,262	103,237	226,276	7,024	91,707	36,780	135,511	1,360	3,928	5,288	231,564
TUOLUMNE	415	14,415	4	14,834	415	0	4	419	4	0	4	14,838
VENTURA	9,818	17,432	13,531	40,781	2,712	1,222	3,254	7,188	3,370	56	3,426	44,207
YOLO	1,730	130,304	29,062	161,096	852	61,857	827	63,536	456	709	1,165	162,261
YUBA	421	8,287	8,868	17,576	182	4,298	23	4,503	52	0	52	17,628
** UNKNOWN **	1,038	21,003	10,143	32,184	215	1,551	55	1,821	7,787	4,187	11,974	44,158
<b>TOTAL</b>	<b>298,127</b>	<b>2,953,226</b>	<b>1,783,037</b>	<b>5,034,390</b>	<b>103,655</b>	<b>2,016,034</b>	<b>436,144</b>	<b>2,555,833</b>	<b>79,305</b>	<b>29,890</b>	<b>109,195</b>	<b>5,143,585</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
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**JULY 2018-JUNE 2019**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NON-FARM**

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	4,138	256	314	4,707	2,409	219	242	2,870	1,729	36	72	1,837
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	60	29	75	163	38	20	56	114	22	9	19	50
BUTTE	18,927	4,783	8,533	32,242	4,677	2,812	7,194	14,683	14,250	1,971	1,338	17,559
CALAVERAS	62	35	22	119	44	27	13	84	19	8	9	36
COLUSA	21,586	5,094	5,252	31,931	3,994	2,304	2,849	9,147	17,592	2,790	2,402	22,784
CONTRA COSTA	2,106	788	1,329	4,222	1,168	362	833	2,364	937	426	496	1,859
DEL NORTE	25	218	80	323	20	109	80	209	5	109	0	114
EL DORADO	121	39	67	228	109	24	35	169	12	15	32	59
FRESNO	76,577	21,538	31,107	129,222	17,554	4,369	13,759	35,682	59,023	17,169	17,348	93,540
GLENN	7,904	2,103	3,250	13,257	2,433	1,649	2,951	7,033	5,471	454	299	6,224
HUMBOLDT	1,799	1,347	868	4,013	1,367	1,010	850	3,226	432	337	18	787
IMPERIAL	63,784	28,165	3,750	95,700	33,798	16,747	3,033	53,578	29,987	11,418	718	42,123
INYO	121	85	50	255	76	81	48	204	45	4	2	51
KERN	50,442	17,229	36,180	103,851	8,998	3,937	20,200	33,134	41,444	13,292	15,980	70,717
KINGS	26,612	9,689	6,620	42,922	3,796	1,167	3,547	8,511	22,816	8,522	3,073	34,411
LAKE	418	135	134	687	241	39	75	355	177	96	59	332
LASSEN	597	240	197	1,034	501	232	192	924	96	9	5	110
LOS ANGELES	28,867	2,340	1,873	33,080	26,845	2,055	1,386	30,286	2,022	285	487	2,794
MADERA	20,325	3,242	6,783	30,350	2,779	1,314	3,031	7,124	17,545	1,929	3,752	23,226
MARIN	319	577	580	1,476	308	577	578	1,463	12	0	2	14
MARIPOSA	1	1	1	3	1	0	1	2	0	1	0	1
MENDOCINO	958	911	1,034	2,903	818	826	837	2,481	140	85	197	421
MERCED	21,752	5,172	11,915	38,839	4,497	2,148	8,644	15,288	17,255	3,024	3,272	23,551
MODOC	3,732	1,373	680	5,784	3,450	1,336	657	5,443	282	36	23	341
MONO	102	195	44	342	88	194	38	320	15	1	6	22
MONTEREY	49,120	11,040	13,722	73,882	16,035	3,774	8,040	27,850	33,084	7,266	5,681	46,032
NAPA	1,880	842	1,960	4,682	1,700	713	1,529	3,942	180	129	431	740
NEVADA	171	218	39	427	145	205	30	379	26	13	9	48
ORANGE	6,887	1,048	970	8,905	4,891	503	438	5,832	1,996	545	532	3,073
PLACER	1,740	461	598	2,799	1,279	428	581	2,288	461	33	17	511
PLUMAS	31	4	4	39	28	4	4	36	2	0	0	2
RIVERSIDE	22,130	11,401	4,525	38,056	12,800	7,261	3,931	23,992	9,330	4,140	595	14,065
SACRAMENTO	7,803	1,790	2,512	12,105	3,564	713	884	5,161	4,239	1,077	1,628	6,944
SAN BENITO	2,510	859	602	3,971	921	442	268	1,631	1,589	417	334	2,340
SAN BERNARDINO	9,184	1,812	1,340	12,336	7,446	1,789	1,319	10,553	1,738	24	21	1,783
SAN DIEGO	7,889	1,636	2,282	11,807	7,131	1,454	2,188	10,773	758	182	93	1,034
SAN FRANCISCO	1,703	56	107	1,866	1,525	37	77	1,640	178	19	30	227
SAN JOAQUIN	23,341	4,936	13,694	41,970	6,695	2,294	8,436	17,425	16,646	2,641	5,258	24,545
SAN LUIS OBISPO	2,749	828	3,055	6,631	943	367	915	2,225	1,806	461	2,140	4,406
SAN MATEO	1,516	330	398	2,245	1,448	320	377	2,146	68	10	21	99
SANTA BARBARA	15,484	5,533	6,229	27,247	3,369	1,019	2,095	6,483	12,116	4,514	4,134	20,764
SANTA CLARA	3,480	912	1,465	5,857	2,944	769	989	4,703	536	143	475	1,154
SANTA CRUZ	3,011	701	1,000	4,713	2,536	489	935	3,960	476	212	65	753
SHASTA	2,738	437	443	3,618	2,221	360	333	2,915	517	77	110	703
SIERRA	2	0	0	2	2	0	0	2	0	0	0	0
SISKIYOU	3,973	1,549	1,667	7,189	3,568	1,429	1,650	6,646	406	120	18	543
SOLANO	9,836	3,338	2,458	15,632	2,634	1,028	1,569	5,231	7,202	2,311	889	10,401
SONOMA	3,399	1,692	2,804	7,895	2,530	1,331	1,750	5,611	869	362	1,054	2,285
STANISLAUS	34,073	12,298	30,895	77,266	10,664	8,341	25,294	44,299	23,409	3,957	5,601	32,967
SUTTER	11,392	1,369	2,608	15,369	3,216	855	1,777	5,848	8,176	513	831	9,520
TEHAMA	2,133	875	1,790	4,797	1,130	805	1,660	3,595	1,003	70	130	1,203
TRINITY	47	21	54	122	40	16	51	107	7	5	3	15
TULARE	31,984	10,644	10,945	53,573	7,044	1,399	5,109	13,552	24,940	9,245	5,836	40,021
TUOLUMNE	2	0	1	3	2	0	1	3	0	0	0	0
VENTURA	11,164	2,498	2,726	16,389	7,318	1,324	1,841	10,483	3,846	1,175	885	5,906
YOLO	9,838	2,725	3,697	16,260	2,306	911	2,600	5,817	7,531	1,814	1,097	10,442
YUBA	2,682	372	991	4,045	762	312	963	2,038	1,919	59	28	2,007
** UNKNOWN **	16,091	12,874	5,974	34,939	10,842	10,013	5,369	26,224	5,249	2,861	605	8,715
<b>TOTAL</b>	<b>651,322</b>	<b>200,686</b>	<b>242,297</b>	<b>1,094,305</b>	<b>249,694</b>	<b>94,265</b>	<b>154,138</b>	<b>498,096</b>	<b>401,629</b>	<b>106,421</b>	<b>88,159</b>	<b>596,209</b>



# FERTILIZING MATERIALS TONNAGE REPORT

JULY – DECEMBER 2019



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, agricultural minerals, and compost 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, agricultural minerals, and/or compost sold/distributed in California, as defined in the Food and Agricultural Code, Sections 14512, 14522 and 14563, 14550.5, and 14525. 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, AGRICULTURAL MINERALS, AND COMPOST  
 JANUARY 2018-DECEMBER 2019  
 TOTAL TONS OF MATERIALS REPORTED FOR THE PERIOD INDICATED

CODE	MATERIAL NAME	JAN-JUNE	JAN-JUNE	JULY-DEC	JULY-DEC	JAN-DEC	JAN-DEC
		2018	2019	2018	2019	2018	2019
0	IDENTIFIED BY GRADE	0	0	0	0	0	0
0	N-P-K GRADES	0	0	0	0	0	0
2	ANHYDROUS AMMONIA	4,086	5,753	7,136	3,402	11,222	9,155
6	AQUA AMMONIA	133,186	132,223	11,710	13,527	144,896	145,750
10	AMMONIUM NITRATE	1,119	941	448	946	1,567	1,887
12	AMMONIUM NITRATE SOLUTION	20,711	22,348	19,070	21,149	39,781	43,497
20	AMMONIUM POLYSULFIDE	439	4,364	0	352	439	4,716
24	AMMONIUM SULFATE	67,285	52,470	26,755	32,911	94,040	85,381
31	AMMONIUM THIOSULFATE	39,882	38,609	13,145	13,364	53,027	51,973
35	CALCIUM AMMONIUM NITRATE SOLUTION	106,921	112,692	40,895	42,485	147,816	155,177
43	CALCIUM NITRATE	7,779	13,543	4,618	6,510	12,397	20,053
58	NITROGEN SOLUTION 28%	2,080	2,642	3,912	986	5,992	3,628
60	NITROGEN SOLUTION 32%	377,488	387,119	172,180	146,836	549,668	533,955
62	SODIUM NITRATE	1,994	102	157	86	2,151	188
64	SULFUR COATED UREA	44	10	10	7	54	17
66	UREA	56,029	77,885	35,782	49,464	91,811	127,349
67	UREA SOLUTION	6,876	5,120	1,560	4,388	8,436	9,508
0	NON-FARM USE NITROGEN	25,145	38,735	25,306	16,273	50,451	54,008
98	NITROGEN MATERIALS - COMPOST	8,179	3,381	2,938	5,190	11,117	8,571
203	DIAMMONIUM PHOSPHATE	407	37	18	264	425	301
207	AMMONIUM PHOSPHATE SULFATE	11,335	9,880	6,235	4,649	17,570	14,529
209	MONOAMMONIUM PHOSPHATE	30,545	27,672	29,456	29,248	60,001	56,920
248	PHOSPHORIC ACID	9,223	10,739	8,036	4,663	17,259	15,402
249	LIQUID AMMONIUM POLYPHOSPHATE	37,631	40,750	22,699	16,327	60,330	57,077
263	NORMAL SUPERPHOSPHATE	30	2	1	0	31	2
267	TRIPLE SUPERPHOSPHATE	473	307	1,229	127	1,702	434
0	NON-FARM USE PHOSPHORUS	13,105	12,133	16,354	9,444	29,459	21,577
298	PHOSPHORUS MATERIALS - COMPOST	2,305	3,729	2,169	7,301	4,474	11,030
428	MURIATE OF POTASH	25,001	21,366	26,170	19,231	51,171	40,597
443	SULFATE OF POTASH MAGNESIA	25,396	27,240	14,095	13,308	39,491	40,548
453	POTASSIUM NITRATE	3,063	4,208	2,849	3,229	5,912	7,437
463	POTASSIUM SULFATE	57,510	47,774	56,227	55,936	113,737	103,710
0	NON-FARM USE POTASH	6,157	7,150	6,118	6,663	12,275	13,813
498	POTASSIUM MATERIALS - COMPOST	2,915	1,949	3,104	5,300	6,019	7,249
601	BLOOD MEAL	29	49	10	2,558	39	2,607
667	SEWAGE SLUDGE	98,055	86,455	110,072	146,295	208,127	232,750
723	COPPER - ALL MATERIALS	517	866	390	689	907	1,555
731	IRON - ALL MATERIALS	2,185	1,232	1,508	1,499	3,693	2,731
732	GYPHUM - ALL MATERIALS	611,234	528,625	816,493	955,726	1,427,727	1,484,351
770	SULFUR	68,776	44,534	63,012	66,605	131,788	111,139
774	SULFURIC ACID	81,633	77,659	80,613	76,526	162,246	154,185
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	230,432	244,735	163,063	173,732	393,495	418,467
907	LIMING MATERIALS - ALL MATERIALS	109,726	108,784	227,783	178,260	337,509	287,044
0	NON-FARM USE SECONDARY/MICRONUTRIENTS	12,790	13,170	9,109	27,394	21,899	40,564
613	OIM BULK COMPOST - NO NUTRIENTS	178,772	137,447	310,625	271,757	489,397	409,204
0	TOTAL	2,478,488	2,356,879	2,343,060	2,434,607	4,821,548	4,791,486

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

CODE	MATERIAL NAME	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE	JAN-JUNE
		2018 N	2018 P2O5	2018 K2O	2019 N	2019 P2O5	2019 K2O
0	IDENTIFIED BY GRADE	0	0	0	0	0	0
0	NON-FARM USE NITROGEN	25,145	0	0	38,735	0	0
0	NON-FARM USE PHOSPHORUS	0	13,105	0	0	12,133	0
0	NON-FARM USE POTASH	0	0	6,157	0	0	7,150
2	ANHYDROUS AMMONIA	3,351	0	0	4,717	0	0
6	AQUA AMMONIA	26,637	0	0	26,445	0	0
10	AMMONIUM NITRATE	380	0	0	320	0	0
12	AMMONIUM NITRATE SOLUTION	4,142	0	0	4,470	0	0
20	AMMONIUM POLYSULFIDE	88	0	0	873	0	0
24	AMMONIUM SULFATE	14,130	0	0	11,019	0	0
31	AMMONIUM THIOSULFATE	4,786	0	0	4,633	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	18,184	0	0	19,158	0	0
43	CALCIUM NITRATE	1,167	0	0	2,031	0	0
58	NITROGEN SOLUTION 28%	582	0	0	740	0	0
60	NITROGEN SOLUTION 32%	120,796	0	0	123,878	0	0
62	SODIUM NITRATE	319	0	0	16	0	0
64	SULFUR COATED UREA	16	0	0	4	0	0
66	UREA	25,773	0	0	35,827	0	0
67	UREA SOLUTION	1,375	0	0	1,024	0	0
97	NITROGEN MATERIALS - ALL OTHER	137,451	0	0	126,314	0	0
98	NITROGEN MATERIALS - COMPOST	8,179	0	0	3,381	0	0
203	DIAMMONIUM PHOSPHATE	73	187	0	7	17	0
207	AMMONIUM PHOSPHATE SULFATE	1,814	2,267	0	1,581	1,976	0
209	MONOAMMONIUM PHOSPHATE	3,360	15,883	0	3,044	14,389	0
248	PHOSPHORIC ACID	0	4,980	0	0	5,799	0
249	LIQUID AMMONIUM POLYPHOSPHATE	3,763	12,795	0	4,075	13,855	0
263	NORMAL SUPERPHOSPHATE	0	7	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	218	0	0	141	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	56,583	0	0	55,810	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,305	0	0	3,729	0
428	MURIATE OF POTASH	0	0	15,001	0	0	12,820
443	SULFATE OF POTASH MAGNESIA	0	0	5,588	0	0	5,993
453	POTASSIUM NITRATE	429	0	1,348	589	0	1,852
463	POTASSIUM SULFATE	0	0	28,755	0	0	23,887
497	POTASSIUM MATERIALS - ALL OTHER	0	0	88,044	0	0	73,714
498	POTASSIUM MATERIALS - COMPOST	0	0	2,915	0	0	1,949
601	BLOOD MEAL	3	0	0	6	0	0
667	SEWAGE SLUDGE	5,883	1,961	981	5,187	1,729	865
0	TOTAL	407,827	110,291	148,788	418,073	109,579	128,228

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

CODE	MATERIAL NAME	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC	JUL-DEC
		2018 N	2018 P2O5	2018 K2O	2019 N	2019 P2O5	2019 K2O
0	IDENTIFIED BY GRADE	0	0	0	0	0	0
0	NON-FARM USE NITROGEN	25,306	0	0	16,273	0	0
0	NON-FARM USE PHOSPHORUS	0	16,354	0	0	9,444	0
0	NON-FARM USE POTASH	0	0	6,118	0	0	6,663
2	ANHYDROUS AMMONIA	5,852	0	0	2,790	0	0
6	AQUA AMMONIA	2,342	0	0	2,705	0	0
10	AMMONIUM NITRATE	152	0	0	322	0	0
12	AMMONIUM NITRATE SOLUTION	3,814	0	0	4,230	0	0
20	AMMONIUM POLYSULFIDE	0	0	0	70	0	0
24	AMMONIUM SULFATE	5,619	0	0	6,911	0	0
31	AMMONIUM THIOSULFATE	1,577	0	0	1,604	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	6,952	0	0	7,222	0	0
43	CALCIUM NITRATE	693	0	0	977	0	0
58	NITROGEN SOLUTION 28%	1,095	0	0	276	0	0
60	NITROGEN SOLUTION 32%	55,098	0	0	46,988	0	0
62	SODIUM NITRATE	25	0	0	14	0	0
64	SULFUR COATED UREA	4	0	0	3	0	0
66	UREA	16,460	0	0	22,753	0	0
67	UREA SOLUTION	312	0	0	878	0	0
97	NITROGEN MATERIALS - ALL OTHER	91,496	0	0	97,530	0	0
98	NITROGEN MATERIALS - COMPOST	2,938	0	0	5,190	0	0
203	DIAMMONIUM PHOSPHATE	3	8	0	48	121	0
207	AMMONIUM PHOSPHATE SULFATE	998	1,247	0	744	930	0
209	MONOAMMONIUM PHOSPHATE	3,240	15,317	0	3,217	15,209	0
248	PHOSPHORIC ACID	0	4,339	0	0	2,518	0
249	LIQUID AMMONIUM POLYPHOSPHATE	2,270	7,718	0	1,633	5,551	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	565	0	0	58	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	41,187	0	0	32,383	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,169	0	0	7,301	0
428	MURIATE OF POTASH	0	0	15,702	0	0	11,539
443	SULFATE OF POTASH MAGNESIA	0	0	3,101	0	0	2,928
453	POTASSIUM NITRATE	399	0	1,254	452	0	1,421
463	POTASSIUM SULFATE	0	0	28,114	0	0	27,968
497	POTASSIUM MATERIALS - ALL OTHER	0	0	55,576	0	0	38,966
498	POTASSIUM MATERIALS - COMPOST	0	0	3,104	0	0	5,300
601	BLOOD MEAL	1	0	0	307	0	0
667	SEWAGE SLUDGE	6,604	2,201	1,101	8,778	2,926	1,463
0	TOTAL	233,249	91,107	114,069	231,913	76,442	96,247

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

CODE	MATERIAL NAME	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
		2018 N	2018 P2O5	2018 K2O	2019 N	2019 P2O5	2019 K2O
0	IDENTIFIED BY GRADE	0	0	0	0	0	0
0	NON-FARM USE NITROGEN	50,451	0	0	55,008	0	0
0	NON-FARM USE PHOSPHORUS	0	29,459	0	0	21,577	0
0	NON-FARM USE POTASH	0	0	12,275	0	0	13,813
2	ANHYDROUS AMMONIA	9,202	0	0	7,507	0	0
6	AQUA AMMONIA	28,979	0	0	29,150	0	0
10	AMMONIUM NITRATE	533	0	0	642	0	0
12	AMMONIUM NITRATE SOLUTION	7,956	0	0	8,699	0	0
20	AMMONIUM POLYSULFIDE	88	0	0	943	0	0
24	AMMONIUM SULFATE	19,748	0	0	17,930	0	0
31	AMMONIUM THIOSULFATE	6,363	0	0	6,237	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	25,136	0	0	26,380	0	0
43	CALCIUM NITRATE	1,860	0	0	3,008	0	0
58	NITROGEN SOLUTION 28%	1,678	0	0	1,016	0	0
60	NITROGEN SOLUTION 32%	175,894	0	0	170,866	0	0
62	SODIUM NITRATE	344	0	0	30	0	0
64	SULFUR COATED UREA	19	0	0	6	0	0
66	UREA	42,233	0	0	58,581	0	0
67	UREA SOLUTION	1,687	0	0	1,902	0	0
97	NITROGEN MATERIALS - ALL OTHER	228,947	0	0	223,844	0	0
98	NITROGEN MATERIALS - COMPOST	11,117	0	0	8,571	0	0
203	DIAMMONIUM PHOSPHATE	77	196	0	54	138	0
207	AMMONIUM PHOSPHATE SULFATE	2,811	3,514	0	2,325	2,906	0
209	MONOAMMONIUM PHOSPHATE	6,600	31,201	0	6,261	29,598	0
248	PHOSPHORIC ACID	0	9,320	0	0	8,317	0
249	LIQUID AMMONIUM POLYPHOSPHATE	6,033	20,512	0	5,708	19,406	0
263	NORMAL SUPERPHOSPHATE	0	7	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	783	0	0	200	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	97,770	0	0	88,193	0
298	PHOSPHORUS MATERIALS - COMPOST	0	4,474	0	0	11,030	0
428	MURIATE OF POTASH	0	0	30,703	0	0	24,358
443	SULFATE OF POTASH MAGNESIA	0	0	8,689	0	0	8,921
453	POTASSIUM NITRATE	828	0	2,601	1,041	0	3,272
463	POTASSIUM SULFATE	0	0	56,869	0	0	51,855
497	POTASSIUM MATERIALS - ALL OTHER	0	0	143,620	0	0	112,680
498	POTASSIUM MATERIALS - COMPOST	0	0	6,019	0	0	7,249
601	BLOOD MEAL	4	0	0	313	0	0
667	SEWAGE SLUDGE	12,488	4,163	2,081	13,965	4,655	2,328
0	TOTAL	641,076	201,397	262,856	649,986	186,021	224,476

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST  
 JULY-DECEMBER 2019  
 TONS OF NITROGEN MATERIALS - FARM USE AND NON-FARM USE

COUNTY	ANHYDROUS AMMONIA	AQUA AMMONIA	AMMONIUM NITRATE	AMMONIUM NITRATE SOLUTION	AMMONIUM POLYSULFIDE	AMMONIUM SULFATE	AMMONIUM THIOSULFATE	BLOOD MEAL	CALCIUM AMMONIUM NITRATE SOLUTION	CALCIUM NITRATE	NITROGEN SOLUTION 28%	NITROGEN SOLUTION 32%	SODIUM NITRATE	SULFUR COATED UREA	UREA SOLUTION	NITROGEN MATERIALS - ALL OTHER	NITROGEN MATERIALS - COMPOST	NON-FARM USE NITROGEN	
ALAMEDA	0	0	0	4	0	21	14	0	3	7	0	0	56	0	0	25	0	121	
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
AMADOR	0	0	0	0	0	2	0	0	24	0	0	0	0	0	0	9	0	0	
BUTTE	0	1,127	0	26	0	6,028	29	0	68	88	0	4,864	0	0	171	293	0	461	
CALAVERAS	0	0	0	0	0	14	0	0	1	0	0	0	0	0	0	2	0	3	
COLUSA	148	5,491	0	0	0	4,019	20	0	920	8	0	6,138	0	0	970	665	35	0	
CONTRA COSTA	0	0	4	7	0	16	208	0	134	12	0	859	0	0	42	310	0	150	
DEL NORTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	
EL DORADO	0	15	0	0	0	1	0	0	0	0	0	0	0	0	0	11	0	35	
FRESNO	184	14	21	17	15	1,349	4,958	0	6,094	516	26	24,130	16	0	2,196	189	10,173	102	96
GLENN	0	459	0	0	0	1,799	5	0	157	6	0	1,007	0	0	51	152	16	14	
HUMBOLDT	0	0	0	0	0	0	0	2,450	0	13	0	0	0	0	0	16,218	7	633	
IMPERIAL	0	0	47	3,940	0	2,000	49	102	2,096	0	316	20,799	55	0	30,394	5,336	986	2	
INYO	0	0	0	0	0	1	0	0	23	7	0	0	30	0	3	34	0	0	
KERN	32	0	0	22	0	444	1,046	0	1,075	552	0	10,030	0	0	1,621	62	4,210	374	52
KINGS	738	1	0	0	4	42	438	0	392	6	1	6,639	0	0	334	912	850	90	
LAKE	0	0	0	0	0	136	0	0	127	0	0	27	0	0	24	20	4	2	
LASSEN	0	0	0	148	0	2	0	0	0	0	0	68	0	0	601	1	0	0	
LOS ANGELES	0	149	5	4	0	216	17	0	31	29	0	538	0	0	237	3,737	5	2,845	
MADERA	0	13	59	347	0	234	241	0	796	697	0	6,256	0	0	116	1,965	246	6	
MARIN	0	0	0	0	0	11	0	0	0	0	0	0	0	0	2	3	0	96	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
MENDOCINO	0	0	0	0	0	0	0	0	9	5	0	11	0	0	0	31	73	283	
MERCED	26	2	11	492	0	1,550	1,114	0	2,490	60	0	8,831	0	0	949	415	1,566	31	
MODOC	0	0	0	54	0	466	59	0	4	0	0	835	0	0	789	493	0	32	
MONO	0	0	0	0	0	25	0	0	0	0	0	0	0	0	31	1	0	0	
MONTEREY	0	0	77	10,029	0	806	942	1	8,352	339	1	3,439	0	0	1,031	347	16,930	101	44
NAPA	5	0	0	0	0	1	0	0	68	52	0	2	0	0	0	89	24	11	
NEVADA	0	0	0	0	0	6	0	0	0	0	0	9	0	0	9	21	0	30	
ORANGE	0	0	6	26	0	22	0	0	151	14	0	25	0	0	85	1	911	0	799
PLACER	0	96	0	3	0	222	8	0	45	5	0	6	0	0	61	63	68	235	
PLUMAS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	14	0	4	
RIVERSIDE	44	0	3	1,065	2	389	223	0	2,821	537	1	5,454	0	0	579	1,744	134	1,827	
SACRAMENTO	121	133	9	48	0	356	9	0	261	368	0	1,130	0	0	247	1,270	0	1,001	
SAN BENITO	0	0	0	4	0	10	0	0	726	126	0	22	0	0	44	0	1,418	5	0
SAN BERNARDINO	0	0	12	0	221	70	8	0	6	38	0	29	0	0	118	0	254	1	791
SAN DIEGO	0	0	666	79	7	145	0	0	279	302	114	82	0	0	161	1,428	0	754	
SAN FRANCISCO	0	0	0	0	0	79	0	0	0	0	0	258	0	0	1	0	2	0	
SAN JOAQUIN	27	0	0	28	94	614	677	0	2,966	628	19	9,185	0	0	957	7	2,679	0	587
SAN LUIS OBISPO	0	0	3	519	1	347	84	0	242	183	20	260	0	1	644	162	2,695	0	32
SAN MATEO	0	0	4	0	0	26	0	0	0	18	0	28	0	0	9	0	374	2	208
SANTA BARBARA	0	0	0	3,338	8	225	1,041	0	1,192	308	397	5,075	15	0	68	642	2,827	8	123
SANTA CLARA	0	0	0	13	0	19	3	0	25	29	0	161	0	0	108	0	389	51	323
SANTA CRUZ	0	0	0	1	0	15	0	0	0	32	0	5	0	0	4	8	1,430	92	114
SHASTA	0	0	4	316	0	169	0	0	70	2	0	114	0	0	1,679	0	27	0	563
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	38	0	0	0	0	315	173	0	490	84	0	247	0	0	506	0	350	0	94
SOLANO	659	193	1	6	0	791	11	0	402	50	0	1,396	0	0	151	0	475	102	57
SONOMA	0	26	6	0	0	37	0	5	178	202	0	31	0	0	54	0	791	66	484
STANISLAUS	1,145	0	8	6	0	2,349	1,030	0	4,316	83	0	12,427	0	0	1,180	0	2,136	931	73
SUTTER	0	3,551	0	0	0	3,545	284	0	529	566	52	1,632	0	0	543	0	1,698	27	2
TEHAMA	0	56	0	0	0	72	0	0	10	1	0	404	0	0	80	0	92	5	16
TRINITY	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
TULARE	140	0	0	0	0	951	478	0	661	192	0	8,232	0	0	887	441	3,150	727	19
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	124	0	605	0	33	26	0	1,794	136	0	313	0	6	54	0	3,053	31	1,654
YOLO	95	1,535	0	0	0	2,038	78	0	1,620	201	0	5,308	0	0	1,477	0	1,538	100	85
YUBA	0	371	0	0	0	756	51	0	620	4	0	39	0	0	51	0	49	17	5
** UNKNOWN **	0	171	0	0	0	128	40	0	217	3	0	168	0	0	122	127	3,462	0	1,352
<b>TOTAL</b>	<b>3,402</b>	<b>13,527</b>	<b>946</b>	<b>21,149</b>	<b>352</b>	<b>32,911</b>	<b>13,364</b>	<b>2,558</b>	<b>42,485</b>	<b>6,510</b>	<b>986</b>	<b>146,836</b>	<b>86</b>	<b>7</b>	<b>49,464</b>	<b>4,388</b>	<b>97,530</b>	<b>5,190</b>	<b>16,273</b>

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 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE AND NON-FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	PHOSPHORUS MATERIALS - COMPOST	NON-FARM USE PHOSPHORUS	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER	POTASSIUM MATERIALS - COMPOST	NON-FARM USE POTASH
ALAMEDA	0	0	0	0	10	0	0	4	0	57	0	0	1	99	15	0	62
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	9	7	0	0	0	0	10	0	47	0	0	0	19	0	0	0
BUTTE	0	39	152	0	119	0	0	152	0	623	733	1,825	48	3,403	344	0	540
CALaveras	0	0	0	0	0	0	0	2	0	2	0	0	0	3	0	0	0
COLUSA	0	422	556	1	899	0	1	429	17	0	37	5,764	39	1,348	816	31	0
CONTRA COSTA	0	0	12	4	374	0	1	143	0	63	0	1	12	17	120	0	98
DEL NORTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EL DORADO	0	1	5	0	0	0	0	10	0	11	0	7	0	17	0	14	0
FRESNO	7	0	1,247	732	2,533	0	6	3,966	28	16	507	934	109	7,414	7,565	49	33
GLENN	0	297	160	0	133	0	0	163	18	0	62	13	6	829	295	18	0
HUMBOLDT	0	0	1	0	1	0	0	455	3,659	807	130	0	0	22	0	7	632
IMPERIAL	0	8	13,199	560	2,698	0	0	4,603	1,986	1	291	1,010	12	1,587	199	1,294	8
INYO	0	1	126	0	0	0	0	7	0	0	0	0	3	14	13	0	0
KERN	67	75	1,024	769	1,492	0	0	1,414	336	16	739	975	53	2,238	3,130	579	19
KINGS	0	0	88	506	1,766	0	0	451	916	0	9	242	36	1,835	1,104	1,537	0
LAKE	0	15	34	0	66	0	0	4	2	0	0	0	0	26	4	0	0
LASSEN	0	144	154	0	0	0	0	0	0	70	0	21	0	0	0	0	0
LOS ANGELES	0	2	171	95	8	0	0	212	2	3,960	43	8	1	13	97	3	2,387
MADERA	0	0	781	68	803	0	0	444	44	3	841	414	247	2,653	1,164	73	3
MARIN	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	50
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	0	0	0	8	0	0	14	32	521	7	3	0	55	44	60	352
MERCED	10	0	897	3	620	0	0	1,089	0	1	1,724	99	194	5,145	1,881	0	3
MODOC	0	443	428	0	7	0	0	25	0	13	245	22	0	31	0	0	2
MONO	0	0	300	0	0	0	0	0	0	0	16	0	0	526	0	0	0
MONTREY	0	1	867	344	291	0	3	2,931	57	22	5	0	51	3,163	3,751	63	18
NAPA	0	40	28	0	28	0	0	141	19	4	0	2	13	90	300	23	8
NEVADA	0	0	10	0	0	0	0	22	0	12	0	69	0	15	7	0	6
ORANGE	0	28	34	0	1	0	0	394	0	90	12	3	1	44	401	0	66
PLACER	0	3	25	0	0	0	0	10	0	26	69	4	0	264	30	54	115
PLUMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
RIVERSIDE	0	12	2,091	474	1,102	0	0	1,011	203	1,268	540	306	78	248	815	325	257
SACRAMENTO	25	190	75	0	1	0	0	438	0	149	178	3	1	252	1,263	0	167
SAN BENITO	0	0	0	0	2	0	0	233	1	0	0	5	0	281	1	0	0
SAN BERNARDINO	0	0	127	2	0	0	0	16	0	257	34	0	5	70	17	0	145
SAN DIEGO	16	1	90	21	7	0	2	348	0	184	20	38	75	616	164	0	78
SAN FRANCISCO	0	0	1	0	0	0	0	0	0	33	0	0	0	1	0	0	46
SAN JOAQUIN	48	1,058	300	0	1,074	0	0	1,564	15	156	1,659	25	57	4,692	3,491	27	172
SAN LUIS OBISPO	0	53	0	2	51	0	1	143	0	11	228	0	170	182	231	0	8
SAN MATEO	0	0	0	0	0	0	0	248	0	40	0	0	8	8	102	0	64
SANTA BARBARA	0	0	971	149	64	0	0	1,829	0	13	304	7	157	898	1,210	0	12
SANTA CLARA	0	0	0	0	0	0	0	271	0	79	41	0	4	58	575	38	144
SANTA CRUZ	0	0	5	1	7	0	0	369	19	14	0	3	26	157	177	21	16
SHASTA	0	403	236	0	0	0	0	18	0	23	174	0	9	155	19	0	21
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	125	333	0	20	0	0	132	0	21	315	188	0	196	28	0	30
SOLANO	0	147	1,453	0	456	0	1	318	72	14	325	0	5	576	759	77	41
SONOMA	1	8	63	0	58	0	26	555	34	35	0	23	740	596	59	42	0
STANISLAUS	0	69	1,808	73	615	0	0	1,640	380	30	7,381	284	1,639	10,786	2,814	548	109
SUTTER	0	538	331	0	83	0	2	82	30	1	150	10	48	1,461	316	30	1
TEHAMA	0	89	1	0	3	0	0	30	5	5	27	0	5	246	92	5	6
TRINITY	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
TULARE	100	0	262	577	615	0	0	1,448	7	5	1,427	571	16	1,217	1,483	218	5
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	136	201	218	52	0	0	1,148	15	11	149	28	28	784	968	29	49
YOLO	0	254	493	10	275	0	0	276	100	83	710	26	27	1,378	980	107	58
YUBA	0	23	40	0	0	0	0	40	19	1	6	3	22	297	66	19	1
** UNKNOWN **	0	15	62	0	4	0	0	3,726	0	644	106	0	0	52	1,352	0	771
TOTAL	264	4,649	29,248	4,683	16,327	0	127	32,983	7,361	9,384	19,231	13,308	3,229	55,936	38,966	5,300	6,663



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TONS OF AGRICULTURAL MINERALS AND BULK COMPOST - FARM USE AND NON-FARM USE

COUNTY	COPPER - ALL MATERIALS	IRON - ALL MATERIALS	GYPSUM - ALL MATERIALS	LIMING MATERIALS - ALL MATERIALS	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	SECONDARY/MICRONUTRIENTS - ALL OTHER	NON-FARM USE SECONDARY/MICRONUTRIENTS	OIM BULK COMPOST - NO NUTRIENTS
ALAMEDA	1	7	301	88	0	6	0	300	19	3,500
ALPINE	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	73	0	26	0	5	0	0
BUTTE	0	232	2,533	1,764	0	185	0	505	5	1,962
CALAVERAS	0	0	21	41	0	18	0	1	362	0
COLUSA	150	0	39,434	1,522	0	6	322	1,300	0	9,201
CONTRA COSTA	0	8	1,488	10	0	196	0	504	2	0
DEL NORTE	0	0	0	0	0	0	0	0	0	0
EL DORADO	0	2	1	1,092	0	57	0	56	5,594	0
FRESNO	41	52	294,373	4,029	8,436	4,679	5,703	44,036	374	25,945
GLENN	0	0	5,022	1,127	0	62	1	431	740	475
HUMBOLDT	0	0	3,334	3,285	19	0	0	4,958	16	0
IMPERIAL	1	132	5,320	4,852	1	375	1,498	1,351	0	25,062
INYO	0	9	0	1,621	0	3	0	6	1	0
KERN	77	11	202,328	5,939	16,053	8,666	9,360	24,343	1,044	2,929
KINGS	4	5	98,789	10,974	1,956	11,396	41,775	5,863	0	5,000
LAKE	0	0	1,285	116	0	11	0	6	333	35
LASSEN	0	1	885	241	0	81	0	3	24	0
LOS ANGELES	1	42	384	50	0	1	123	2,533	3,520	27,514
MADERA	9	3	2,694	2,419	13,768	2,397	204	6,561	25	5,200
MARIN	0	0	0	0	0	0	0	14	7	0
MARIPOSA	0	0	0	0	0	0	0	1	0	0
MENDOCINO	0	0	122	657	0	0	0	11	17	0
MERCED	6	7	24,220	13,714	2,467	4,116	286	9,808	246	2,355
MODOC	0	0	2,207	248	0	549	12	21	24	931
MONO	0	0	71	0	0	2	0	0	0	0
MONTEREY	3	48	12,665	32,805	0	587	33	1,018	12	100,410
NAPA	0	0	2,052	488	0	3	0	9	484	4,143
NEVADA	0	1	72	0	0	13	0	65	4	150
ORANGE	0	8	216	73	31	0	0	1,481	251	110
PLACER	1	0	538	24	73	3	0	63	37	0
PLUMAS	0	0	0	0	0	0	0	0	0	0
RIVERSIDE	0	108	1,548	2	15,867	174	649	2,511	1,063	13,414
SACRAMENTO	1	26	397	991	2,211	993	0	986	1,084	0
SAN BENITO	0	0	877	97	0	34	0	62	0	0
SAN BERNARDINO	0	78	100	4	29,398	111	0	608	287	5,956
SAN DIEGO	3	64	597	172	0	2	0	1,319	2,911	5,219
SAN FRANCISCO	0	1	21	48	0	0	0	1	3	0
SAN JOAQUIN	0	394	31,487	35,909	0	8,829	2,241	6,578	1,452	0
SAN LUIS OBISPO	2	5	121	0	0	13	0	872	3	5
SAN MATEO	0	64	17	141	0	1	0	205	5	0
SANTA BARBARA	6	38	11,177	7,898	194	721	894	4,149	6	4,256
SANTA CLARA	0	1	2,678	426	0	22	4	256	27	0
SANTA CRUZ	2	3	4,282	814	0	290	5	377	4	0
SHASTA	13	3	2,274	10,318	0	343	16	75	173	95
SIERRA	0	0	0	0	0	0	0	0	1	0
SISKIYOU	0	2	1,644	572	0	1,111	106	588	3	1,578
SOLANO	0	0	22,842	1,140	51,247	81	0	1,375	1	5,000
SONOMA	0	17	2,083	1,900	0	9	0	235	288	4,169
STANISLAUS	43	8	76,816	21,553	4,212	10,103	568	6,152	1,050	8,509
SUTTER	0	0	5,487	1,200	0	613	23	381	340	0
TEHAMA	0	0	1,750	3,143	0	199	0	292	0	0
TRINITY	0	2	0	0	0	0	0	36	1	0
TULARE	320	64	67,123	2,588	0	8,592	11,022	12,612	462	758
TUOLUMNE	0	0	1	186	0	0	0	0	1	449
VENTURA	5	28	375	3	362	287	1,513	3,193	4,460	1,729
YOLO	0	1	20,502	1,689	0	477	168	24,067	52	5,698
YUBA	0	0	401	75	0	24	0	351	6	0
** UNKNOWN **	0	24	771	139	0	138	0	1,198	570	0
<b>TOTAL</b>	<b>689</b>	<b>1,499</b>	<b>955,726</b>	<b>178,260</b>	<b>146,295</b>	<b>66,605</b>	<b>76,526</b>	<b>173,732</b>	<b>27,394</b>	<b>271,757</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	NON-FARM USE DRY	NONFARM USE LIQUID	NON-FARM USE TOTAL	TOTAL ALL
ALAMEDA	360	3,992	136	4,488	294	375	34	703	214	45	259	4,747
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	40	137	77	254	5	73	26	104	0	0	0	254
BUTTE	1,049	18,088	7,553	26,690	638	4,451	130	5,219	261	1,368	1,629	28,319
CALAVERAS	23	55	25	103	22	41	18	81	369	0	369	472
COLUSA	3,622	60,711	16,376	80,709	2,449	39,061	1,224	42,734	0	0	0	80,709
CONTRA COSTA	713	1,649	2,131	4,493	350	1,580	276	2,206	269	44	313	4,806
DEL NORTE	0	0	56	56	0	0	0	0	4	0	4	60
EL DORADO	69	1,101	106	1,276	46	1,090	72	1,208	5,623	31	5,654	6,930
FRESNO	22,666	356,281	82,844	461,791	18,014	316,756	26,579	361,349	504	15	519	462,310
GLENN	517	10,145	2,102	12,764	451	6,123	69	6,643	754	0	754	13,518
HUMBOLDT	82	34,916	1	34,999	16	11,580	0	11,596	1,946	142	2,088	37,087
IMPERIAL	8,536	83,319	39,504	131,359	726	9,117	3,687	13,530	11	0	11	131,370
INYO	100	1,748	53	1,901	23	1,616	0	1,639	1	0	1	1,902
KERN	16,474	250,373	35,218	302,065	14,506	239,174	13,097	266,777	1,126	5	1,131	303,196
KINGS	4,151	134,941	55,526	194,618	4,069	123,682	43,011	170,762	0	90	90	194,708
LAKE	140	1,560	256	1,956	93	1,325	0	1,418	337	4	341	2,297
LASSEN	3	1,103	1,341	2,447	3	83	1,125	1,211	24	0	24	2,471
LOS ANGELES	3,847	30,245	2,179	36,271	2,063	858	213	3,134	12,530	182	12,712	48,983
MADERA	5,554	32,021	16,148	53,723	3,179	21,987	2,889	28,055	31	6	37	53,760
MARIN	15	15	0	30	12	2	0	14	193	6	199	229
MARIPOSA	0	1	2	3	0	1	0	1	0	0	0	3
MENDOCINO	152	897	93	1,142	53	727	10	790	1,088	82	1,170	2,312
MERCED	7,038	57,351	21,548	85,937	5,682	43,809	5,133	54,624	281	0	281	86,218
MODOC	3	4,631	3,235	7,869	3	785	2,249	3,037	71	0	71	7,940
MONO	0	972	0	972	0	73	0	73	0	0	0	972
MONTEREY	5,554	156,611	39,326	201,491	3,013	43,686	460	47,159	56	40	96	201,587
NAPA	399	6,781	440	7,620	61	2,489	2	2,552	507	0	507	8,127
NEVADA	101	343	25	469	63	76	12	151	48	4	52	521
ORANGE	1,925	1,122	1,059	4,106	1,449	309	51	1,809	889	317	1,206	5,312
PLACER	168	1,343	184	1,695	68	631	3	702	399	57	456	2,151
PLUMAS	0	18	2	20	0	0	0	0	0	4	4	24
RIVERSIDE	2,540	37,527	14,407	54,474	690	18,568	1,601	20,859	4,330	85	4,415	58,889
SACRAMENTO	1,400	5,702	4,883	11,985	687	4,019	899	5,605	1,721	678	2,399	14,384
SAN BENITO	930	787	2,231	3,948	803	219	48	1,070	0	0	0	3,948
SAN BERNARDINO	949	36,378	66	37,393	614	29,681	4	30,299	1,266	104	1,370	38,763
SAN DIEGO	4,385	6,853	799	12,037	1,665	443	49	2,157	3,894	33	3,927	15,964
SAN FRANCISCO	13	141	260	414	10	61	0	71	75	42	117	531
SAN JOAQUIN	6,059	73,962	37,308	117,329	2,645	63,983	18,810	85,438	2,346	21	2,367	119,696
SAN LUIS OBISPO	2,732	779	3,729	7,240	534	68	411	1,013	45	9	54	7,294
SAN MATEO	827	153	275	1,255	323	103	2	428	296	21	317	1,572
SANTA BARBARA	5,767	15,164	19,692	40,623	3,583	14,635	1,650	19,868	151	3	154	40,777
SANTA CLARA	1,164	3,356	638	5,158	589	2,725	73	3,387	578	17	595	5,753
SANTA CRUZ	1,122	6,659	364	8,145	205	5,547	21	5,773	136	12	148	8,293
SHASTA	258	12,498	3,776	16,532	121	9,646	3,275	13,042	740	40	780	17,312
SIERRA	0	0	0	0	0	0	0	0	1	0	1	1
SISKIYOU	146	7,772	1,223	9,141	144	3,773	106	4,023	144	4	148	9,289
SOLANO	1,251	33,309	4,726	39,286	1,053	23,527	52,105	76,685	113	0	113	39,399
SONOMA	2,021	8,628	1,329	11,978	445	3,691	108	4,244	741	102	843	12,821
STANISLAUS	7,917	144,244	29,451	181,612	4,873	108,784	5,798	119,455	1,186	76	1,262	182,874
SUTTER	887	14,979	7,326	23,192	554	7,055	95	7,704	344	0	344	23,536
TEHAMA	151	5,623	833	6,607	126	5,049	209	5,384	25	2	27	6,634
TRINITY	41	0	0	41	38	0	0	38	1	2	3	44
TULARE	7,182	87,418	32,279	126,879	6,212	79,703	16,406	102,321	429	62	491	127,370
TUOLUMNE	187	449	0	636	187	0	0	187	1	0	1	637
VENTURA	3,830	5,180	8,416	17,426	1,330	1,351	3,085	5,766	6,130	44	6,174	23,600
YOLO	2,453	56,636	12,140	71,229	1,075	43,941	1,888	46,904	271	7	278	71,507
YUBA	156	2,028	1,434	3,618	84	736	31	851	11	2	13	3,631
** UNKNOWN **	996	9,589	1,459	12,044	907	1,301	62	2,270	2,699	638	3,337	15,381
<b>TOTAL</b>	<b>138,665</b>	<b>1,828,284</b>	<b>516,590</b>	<b>2,483,539</b>	<b>86,848</b>	<b>1,300,169</b>	<b>207,106</b>	<b>1,594,123</b>	<b>54,199</b>	<b>4,446</b>	<b>59,656</b>	<b>2,543,195</b>

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**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**JULY-DECEMBER 2019**  
**TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NON-FARM**

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	184	64	130	378	141	51	104	296	43	13	26	82
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	16	15	56	87	9	8	39	56	7	7	17	31
BUTTE	3,955	902	3,448	8,306	1,530	267	2,481	4,277	2,426	635	967	4,028
CALAVERAS	8	4	5	17	7	2	2	11	1	2	3	6
COLUSA	5,558	1,126	2,828	9,513	1,636	467	2,136	4,239	3,922	659	692	5,274
CONTRA COSTA	852	342	232	1,426	429	92	110	631	424	250	122	796
DEL NORTE	5	30	1	36	2	1	1	4	3	29	0	32
EL DORADO	50	24	33	106	45	12	18	74	5	12	15	32
FRESNO	22,222	5,490	11,996	39,708	4,969	1,088	5,306	11,363	17,254	4,401	6,690	28,345
GLENN	1,105	369	770	2,244	581	270	626	1,477	524	99	144	767
HUMBOLDT	17,155	4,962	827	22,944	17,143	4,853	811	22,808	12	109	16	137
IMPERIAL	30,381	13,875	2,697	46,953	18,450	10,985	2,600	32,035	11,931	2,890	97	14,918
INYO	65	73	21	159	51	73	21	145	14	0	0	14
KERN	10,375	3,588	5,689	19,652	3,115	1,637	2,919	7,671	7,260	1,951	2,770	11,981
KINGS	5,176	2,326	3,653	11,154	1,487	1,057	2,596	5,139	3,689	1,269	1,057	6,015
LAKE	109	62	32	202	59	33	13	104	50	29	19	98
LASSEN	369	109	60	538	318	109	60	487	51	0	0	51
LOS ANGELES	6,978	4,317	2,522	13,816	5,651	4,218	2,425	12,294	1,326	100	97	1,523
MADERA	6,103	1,482	3,409	10,994	1,999	890	2,331	5,220	4,104	592	1,078	5,774
MARIN	102	46	50	198	102	46	50	198	0	0	0	0
MARIPOSA	1	0	0	1	0	0	0	0	1	0	0	1
MENDOCINO	391	570	488	1,449	364	517	428	1,309	27	53	60	140
MERCED	6,294	1,818	5,423	13,535	1,662	1,045	4,622	7,329	4,632	773	801	6,206
MODOC	1,390	352	169	1,911	1,102	324	169	1,595	288	27	0	316
MONO	54	156	273	482	54	156	273	482	0	0	0	0
MONTEREY	22,636	3,747	5,439	31,822	7,424	1,326	2,819	11,569	15,212	2,421	2,620	20,254
NAPA	162	196	382	741	97	119	161	377	65	78	221	364
NEVADA	60	39	36	135	57	36	32	124	4	3	4	11
ORANGE	1,807	521	498	2,826	1,147	279	247	1,672	660	242	251	1,154
PLACER	479	120	334	934	432	102	303	837	47	18	31	96
PLUMAS	18	0	2	20	14	0	2	16	4	0	0	4
RIVERSIDE	7,941	4,520	2,105	14,566	4,723	3,285	1,644	9,652	3,218	1,235	461	4,914
SACRAMENTO	3,236	720	1,686	5,642	1,343	297	475	2,115	1,893	423	1,211	3,528
SAN BENITO	1,596	235	285	2,115	538	1	15	554	1,057	234	270	1,561
SAN BERNARDINO	2,959	928	514	4,400	2,877	911	495	4,282	82	17	19	118
SAN DIEGO	2,705	601	603	3,910	2,418	580	583	3,581	287	21	21	329
SAN FRANCISCO	137	34	48	218	43	24	27	93	94	10	21	125
SAN JOAQUIN	7,834	2,490	7,062	17,385	2,464	1,372	5,037	8,872	5,370	1,118	2,025	8,513
SAN LUIS OBISPO	3,439	183	542	4,164	1,507	56	319	1,882	1,931	127	223	2,282
SAN MATEO	608	288	174	1,069	349	283	164	795	259	5	10	274
SANTA BARBARA	6,092	2,463	1,926	10,481	687	269	782	1,738	5,405	2,195	1,144	8,744
SANTA CLARA	880	394	789	2,063	768	376	483	1,627	113	18	306	437
SANTA CRUZ	1,654	408	305	2,366	1,489	283	256	2,027	165	125	49	339
SHASTA	1,603	244	226	2,073	1,483	229	212	1,924	120	15	14	149
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	1,028	358	386	1,773	757	257	379	1,393	272	101	7	379
SOLANO	5,278	2,369	1,875	9,523	938	1,208	1,151	3,297	4,340	1,162	723	6,225
SONOMA	1,469	691	1,077	3,237	1,112	527	770	2,409	357	164	307	828
STANISLAUS	10,719	3,337	14,118	28,174	3,930	1,902	12,109	17,941	6,789	1,435	2,009	10,233
SUTTER	4,313	415	1,191	5,919	2,829	371	829	4,029	1,484	44	362	1,890
TEHAMA	323	59	244	626	89	28	212	330	233	31	32	297
TRINITY	1	2	0	3	1	0	0	1	0	2	0	2
TULARE	7,650	2,163	3,303	13,116	2,212	343	2,092	4,647	5,439	1,820	1,211	8,469
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	5,421	1,448	1,550	8,419	3,951	790	737	5,478	1,470	658	813	2,941
YOLO	5,355	866	2,278	8,499	2,527	606	1,554	4,686	2,828	261	724	3,812
YUBA	549	85	248	883	249	79	226	554	300	7	22	329
** UNKNOWN **	5,062	4,416	2,213	11,690	4,354	4,235	1,948	10,537	708	180	265	1,154
<b>TOTAL</b>	<b>231,913</b>	<b>76,442</b>	<b>96,247</b>	<b>404,602</b>	<b>113,711</b>	<b>48,372</b>	<b>66,202</b>	<b>228,285</b>	<b>118,201</b>	<b>28,070</b>	<b>30,045</b>	<b>176,317</b>



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 JANUARY-DECEMBER 2019  
 TONS OF PHOSPHORUS AND POTASSIUM MATERIALS - FARM USE AND NON-FARM USE

COUNTY	DIAMMONIUM PHOSPHATE	AMMONIUM PHOSPHATE SULFATE	MONOAMMONIUM PHOSPHATE	PHOSPHORIC ACID	LIQUID AMMONIUM POLYPHOSPHATE	NORMAL SUPERPHOSPHATE	TRIPLE SUPERPHOSPHATE	PHOSPHORUS MATERIALS - ALL OTHER	PHOSPHORUS MATERIALS - COMPOST	NON-FARM USE PHOSPHORUS	MURIATE OF POTASH	SULFATE OF POTASH MAGNESIA	POTASSIUM NITRATE	POTASSIUM SULFATE	POTASSIUM MATERIALS - ALL OTHER	POTASSIUM MATERIALS - COMPOST	NON-FARM USE POTASH	
ALAMEDA	0	2	4	0	13	0	6	35	0	174	4	54	2	102	61	0	222	
ALPINE	0	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0	
AMADOR	0	21	7	0	0	0	0	23	0	29	0	0	0	50	35	0	0	
BUTTE	0	891	3,678	0	4,302	0	0	493	181	690	4,423	1,922	113	7,510	1,229	181	574	
CALaveras	0	0	0	0	0	0	0	0	0	17	4	0	0	0	15	0	51	
COLUSA	0	2,961	2,275	1	4,114	0	1	1,913	224	3	68	6,573	115	2,912	3,232	248	4	
CONTRA COSTA	0	0	25	7	561	0	5	247	0	133	50	1	21	91	276	0	230	
DEL NORTE	0	0	0	99	0	0	0	1	0	6	0	0	0	0	3	0	2	
EL DORADO	0	2	7	0	0	0	1	21	0	17	0	7	0	3	38	0	23	
FRESNO	7	109	3,036	1,611	5,744	0	12	10,160	215	2,540	1,065	9,217	451	11,841	15,934	233	144	
GLENN	0	824	2,141	0	203	0	0	635	121	6	210	138	20	1,501	1,339	121	6	
HUMBOLDT	0	0	0	2	0	0	0	502	3,735	1,486	136	406	0	2	36	14	1,133	
IMPERIAL	0	13	18,215	2,907	5,109	0	0	8,932	3,146	1	584	1,566	153	2,779	756	1,533	9	
INYO	0	1	130	0	0	0	0	14	0	0	0	0	5	24	25	0	0	
KERN	67	331	2,370	1,859	7,189	0	1	6,801	401	1,528	2,728	7,720	510	8,856	19,822	645	114	
KINGS	0	0	438	2,081	5,750	0	0	2,027	916	10	962	1,333	46	2,280	3,224	1,551	5	
LAKE	0	20	34	0	107	0	11	31	0	12	0	12	0	24	61	0	24	
LASSEN	0	214	439	0	0	0	0	2	0	0	317	0	21	0	29	0	0	
LOS ANGELES	4	17	234	96	34	0	12	352	5	4,668	162	67	14	113	200	8	2,821	
MADERA	0	0	960	343	1,578	0	0	1,395	170	5	1,723	1,315	366	4,135	4,145	156	6	
MARIN	0	0	0	0	0	0	0	0	0	90	0	0	0	0	2	0	96	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MENDOCINO	1	0	0	0	28	0	0	68	72	881	7	3	0	159	175	135	651	
MERCED	0	0	1,709	9	2,139	0	0	2,801	1	14	2,528	1,312	597	7,503	4,038	0	14	
MODOC	0	2,611	1,161	25	414	0	0	125	0	13	655	22	0	492	59	0	2	
MONO	0	0	345	0	0	0	0	1	0	4	61	22	0	526	6	0	4	
MONTEREY	0	192	1,226	906	609	0	3	7,870	65	106	9	117	205	4,911	8,003	73	116	
NAPA	0	80	41	0	44	0	0	528	21	15	0	2	19	203	1,036	28	31	
NEVADA	0	0	10	0	0	0	0	46	0	65	0	0	0	16	11	0	14	
ORANGE	1	43	48	0	27	0	62	662	0	245	14	12	6	100	649	18	215	
PLACER	0	137	154	0	0	0	0	31	42	115	144	0	0	292	81	86	200	
PLUMAS	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	1	
RIVERSIDE	0	20	4,014	1,605	3,640	0	12	2,333	339	2,270	1,368	422	373	756	1,280	547	706	
SACRAMENTO	27	346	155	0	25	0	7	1,131	0	312	253	30	2	332	2,371	0	382	
SAN BENITO	0	0	0	0	10	0	0	610	1	1	0	88	1	36	508	1	1	
SAN BERNARDINO	0	1	416	14	0	0	10	51	2	757	168	3	12	74	60	3	606	
SAN DIEGO	45	17	153	26	8	0	121	570	0	398	50	474	321	1,778	353	0	307	
SAN FRANCISCO	0	0	1	0	0	0	0	14	0	55	30	76	6	2	22	0	72	
SAN JOAQUIN	48	1,073	480	1	1,431	0	24	4,145	256	396	2,674	247	123	8,119	8,065	27	847	
SAN LUIS OBISPO	0	56	25	3	123	0	6	481	0	196	422	131	472	422	1,633	1	86	
SAN MATEO	0	0	0	2	0	2	0	379	0	99	0	2	27	38	233	0	170	
SANTA BARBARA	0	2	1,048	191	113	0	35	4,657	1	174	371	527	344	1,605	2,872	3	191	
SANTA CLARA	0	5	0	0	8	0	22	644	0	96	173	0	76	90	1,110	40	335	
SANTA CRUZ	0	0	22	4	7	0	0	651	0	19	99	1	12	123	393	327	21	47
SHASTA	0	524	531	0	0	0	0	42	0	33	411	0	15	215	25	0	36	
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SISKIYOU	0	837	1,471	0	310	0	0	416	0	93	1,514	286	2	849	124	0	161	
SOLANO	0	271	1,570	0	900	0	11	611	112	320	325	57	13	877	1,263	123	145	
SONOMA	1	14	92	0	123	0	27	1,282	63	81	1	4	36	1,100	1,715	111	114	
STANISLAUS	0	108	4,722	74	1,644	0	0	8,455	380	145	12,089	1,217	2,112	18,089	12,384	548	285	
SUTTER	0	1,527	669	0	1,200	0	2	251	155	7	601	131	204	3,674	449	156	71	
TEHAMA	0	94	845	0	37	0	0	345	0	7	67	0	49	860	450	7	22	
TRINITY	0	0	0	0	0	0	0	0	0	12	0	0	0	73	0	0	0	
TULARE	100	0	608	2,113	1,433	0	0	5,289	11	34	2,511	3,479	358	2,288	6,207	362	51	
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
VENTURA	0	175	306	397	78	0	15	2,340	151	48	207	1,218	58	1,395	1,838	63	107	
YOLO	0	414	795	76	2,144	0	3	611	144	848	1,053	137	50	2,606	1,904	156	114	
YUBA	0	540	217	0	166	0	0	73	0	26	642	2	86	531	125	26	2	
** UNKNOWN **	0	387	88	860	5,700	0	22	7,188	0	2,234	115	0	0	1,050	2,871	0	2,667	
TOTAL	301	14,529	56,920	15,402	57,077	2	434	88,193	11,090	21,517	40,597	40,548	7,437	103,710	112,680	7,249	13,813	

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TONS OF AGRICULTURAL MINERALS AND BULK COMPOST - FARM USE AND NON-FARM USE

COUNTY	COPPER - ALL MATERIALS	IRON - ALL MATERIALS	GYPSUM - ALL MATERIALS	LIMING MATERIALS - ALL MATERIALS	SEWAGE SLUDGE	SULFUR	SULFURIC ACID	SECONDARY/MICRONUTRIENTS - ALL OTHER	NON-FARM USE SECONDARY/MICRONUTRIENTS	OIM BULK COMPOST - NO NUTRIENTS
ALAMEDA	1	11	315	98	0	10	0	708	108	3,500
ALPINE	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	73	0	45	0	8	0	0
BUTTE	4	241	3,501	2,141	0	1,038	28	1,175	13	2,304
CALAVERAS	0	0	23	170	0	73	0	3	1,243	0
COLUSA	444	4	47,290	1,958	0	151	3,864	10,985	0	9,201
CONTRA COSTA	0	10	1,615	77	0	350	0	1,215	4	0
DEL NORTE	0	0	0	1	0	2	0	4	0	0
EL DORADO	0	2	1	1,093	0	82	0	97	5,600	0
FRESNO	203	189	406,830	9,514	8,803	8,525	10,719	99,380	1,440	27,953
GLENN	17	0	8,733	1,466	0	577	2	4,965	740	475
HUMBOLDT	0	0	3,410	7,258	19	0	2	5,091	42	0
IMPERIAL	1	141	6,625	16,097	1	1,153	3,132	15,647	3	49,371
INYO	0	15	1	1,624	0	8	0	37	2	0
KERN	261	117	438,381	14,502	40,119	15,249	21,824	75,360	4,526	3,372
KINGS	9	385	121,011	12,815	1,986	13,378	74,665	12,006	2	5,000
LAKE	0	0	1,714	119	0	11	0	65	334	1,460
LASSEN	1	3	1,106	243	0	289	0	6	24	0
LOS ANGELES	1	57	694	107	67	1	452	4,397	3,775	27,514
MADERA	13	20	6,037	3,472	15,404	3,491	964	13,260	30	5,200
MARIN	0	2	1	0	0	0	0	72	8	0
MARIPOSA	0	0	0	0	0	0	0	1	1	0
MENDOCINO	0	0	205	667	0	0	0	44	46	0
MERCED	13	21	41,677	18,324	6,337	8,150	6,216	22,523	247	2,355
MODOC	0	0	2,497	277	0	827	12	584	24	1,790
MONO	0	0	84	0	0	2	0	0	1	0
MONTEREY	29	85	13,873	53,573	0	812	427	2,270	55	121,618
NAPA	0	0	4,329	1,053	0	3	0	51	484	20,848
NEVADA	0	2	74	4	0	18	0	73	21	150
ORANGE	0	22	373	123	47	0	0	3,240	590	8,514
PLACER	1	1	2,070	103	73	5	0	164	94	0
PLUMAS	0	0	0	0	0	0	0	12	0	0
RIVERSIDE	3	136	1,893	40	20,888	305	672	5,255	2,114	20,712
SACRAMENTO	1	42	1,034	1,369	4,439	1,398	0	6,287	3,297	0
SAN BENITO	0	0	1,371	249	0	34	27	113	0	0
SAN BERNARDINO	1	171	219	26	47,547	111	0	951	887	14,072
SAN DIEGO	7	118	1,646	267	0	2	0	3,042	3,031	8,848
SAN FRANCISCO	0	2	1,393	48	0	0	0	9	4	0
SAN JOAQUIN	13	428	37,379	45,159	1,583	15,033	5,437	20,789	1,503	8
SAN LUIS OBISPO	7	16	933	5	0	21	0	1,090	5	10
SAN MATEO	0	138	32	295	0	3	1	325	7	0
SANTA BARBARA	9	67	14,608	16,877	194	961	1,415	10,278	9	4,787
SANTA CLARA	0	6	2,822	547	0	22	14	632	35	35
SANTA CRUZ	2	9	5,129	1,069	0	290	22	578	18	0
SHASTA	19	4	2,641	18,081	0	388	23	413	236	95
SIERRA	0	0	0	0	0	0	0	80	1	0
SISKIYOU	0	3	1,983	596	0	2,673	183	1,057	188	5,683
SOLANO	0	4	31,594	2,283	80,024	82	3,566	1,525	3	8,500
SONOMA	4	31	6,907	3,591	0	20	0	561	764	4,169
STANISLAUS	118	22	124,394	35,475	4,212	22,075	1,052	9,335	1,228	18,166
SUTTER	6	1	6,617	1,208	0	758	23	1,334	341	0
TEHAMA	0	0	3,609	3,451	0	202	0	328	20	0
TRINITY	0	2	0	4	0	0	0	37	1	0
TULARE	355	115	96,181	6,118	333	11,220	16,902	30,077	906	3,290
TUOLUMNE	0	0	1	426	0	2	0	2	2	1,049
VENTURA	5	52	914	24	674	535	2,347	6,165	5,655	5,262
YOLO	7	1	26,820	1,689	0	585	181	42,714	60	23,893
YUBA	0	0	687	648	0	31	0	370	7	0
** UNKNOWN **	0	35	1,074	547	0	138	13	1,677	785	0
<b>TOTAL</b>	<b>1,555</b>	<b>2,731</b>	<b>1,484,351</b>	<b>287,044</b>	<b>232,750</b>	<b>111,139</b>	<b>154,185</b>	<b>418,467</b>	<b>40,564</b>	<b>409,204</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	NON-FARM USE DRY	NONFARM USE LIQUID	NON-FARM USE TOTAL	TOTAL ALL
ALAMEDA	1,037	4,064	414	5,515	703	377	63	1,143	850	100	950	6,465
ALPINE	0	43	0	43	0	0	0	0	0	0	0	43
AMADOR	53	183	137	373	8	73	45	126	1	0	1	374
BUTTE	4,349	40,587	71,241	116,177	1,183	6,139	806	8,128	427	1,386	1,813	117,990
CALAVERAS	33	230	104	367	25	193	51	269	1,277	1	1,278	1,645
COLUSA	9,693	78,034	93,048	180,775	4,895	45,903	13,898	64,696	5	3	8	180,783
CONTRA COSTA	1,722	2,279	4,121	8,122	909	1,903	455	3,267	645	92	737	8,859
DEL NORTE	54	12	102	168	5	2	0	7	8	7	15	183
EL DORADO	146	1,131	155	1,432	83	1,090	102	1,275	5,674	38	5,712	7,144
FRESNO	58,902	489,041	260,734	808,677	28,186	440,226	75,751	544,163	2,111	2,446	4,557	813,234
GLENN	2,505	23,000	26,334	51,839	1,230	10,067	4,463	15,760	770	14	784	52,623
HUMBOLDT	429	39,206	15	39,650	232	15,546	2	15,780	3,598	280	3,878	43,528
IMPERIAL	19,106	169,973	99,881	288,960	1,351	31,730	9,716	42,797	31	2	33	288,993
INYO	214	1,782	184	2,180	67	1,616	2	1,685	2	0	2	2,182
KERN	39,648	552,740	182,923	775,311	25,123	526,660	54,030	605,813	4,862	1,490	6,352	781,663
KINGS	9,722	163,125	144,233	317,080	6,859	148,434	80,962	236,255	130	116	246	317,326
LAKE	474	3,435	652	4,561	188	1,684	37	1,909	355	8	363	4,924
LASSEN	7	2,384	1,846	4,237	7	307	1,334	1,648	24	0	24	4,261
LOS ANGELES	8,034	50,446	3,498	61,978	4,141	1,021	614	5,776	15,052	488	15,540	77,518
MADERA	9,748	40,474	72,011	122,233	4,780	27,807	10,074	42,661	42	18	60	122,293
MARIN	98	36	35	169	64	2	9	75	382	6	388	557
MARIPOSA	0	1	2	3	0	1	0	1	1	0	1	4
MENDOCINO	609	1,143	295	2,047	146	727	43	916	1,983	161	2,144	4,191
MERCED	18,838	84,802	81,628	185,268	12,375	65,677	25,209	103,261	373	6	379	185,647
MODOC	3	15,590	3,496	19,089	3	1,942	2,252	4,197	72	0	72	19,161
MONO	4	1,220	17	1,241	0	86	0	86	12	1	13	1,254
MONTEREY	13,201	206,660	88,559	308,420	6,986	62,545	1,538	71,069	351	101	452	308,872
NAPA	1,121	27,462	942	29,525	172	5,241	23	5,436	578	0	578	30,103
NEVADA	177	343	32	552	78	76	17	171	192	34	226	778
ORANGE	5,732	9,913	1,941	17,586	3,265	351	189	3,805	2,323	764	3,087	20,673
PLACER	700	3,477	2,094	6,271	268	2,143	6	2,417	921	79	1,000	7,271
PLUMAS	21	18	4	43	12	0	0	12	7	4	11	54
RIVERSIDE	8,820	55,681	38,509	103,010	2,572	24,102	2,518	29,192	8,994	782	9,776	112,786
SACRAMENTO	3,675	14,511	11,430	29,616	1,619	11,490	1,461	14,570	4,785	1,659	6,444	36,060
SAN BENITO	1,526	1,848	4,253	7,627	1,196	464	134	1,794	5	0	5	7,632
SAN BERNARDINO	2,867	63,498	234	66,599	1,164	47,854	8	49,026	4,400	219	4,619	71,218
SAN DIEGO	15,312	10,757	1,555	27,624	4,477	532	74	5,083	5,562	64	5,626	33,250
SAN FRANCISCO	1,592	1,554	718	3,864	13	1,432	7	1,452	133	56	189	4,053
SAN JOAQUIN	12,963	101,127	97,524	211,614	5,549	80,254	40,018	125,821	4,020	61	4,081	215,695
SAN LUIS OBISPO	3,964	1,742	8,202	13,908	763	769	540	2,072	292	15	307	14,215
SAN MATEO	2,289	191	292	2,772	687	103	4	794	853	43	896	3,668
SANTA BARBARA	11,381	28,927	42,572	82,880	5,771	27,064	6,365	39,200	661	12	673	83,553
SANTA CLARA	2,913	4,082	1,547	8,542	1,155	2,780	108	4,043	1,700	47	1,747	10,289
SANTA CRUZ	2,672	8,243	960	11,875	445	6,545	109	7,099	294	18	312	12,187
SHASTA	802	23,526	4,217	28,545	542	17,514	3,513	21,569	859	114	973	29,518
SIERRA	0	80	0	80	0	80	0	80	1	0	1	81
SISKIYOU	759	23,158	2,175	26,092	326	5,945	224	6,495	831	10	841	26,933
SOLANO	2,187	52,444	43,822	98,453	1,425	33,103	84,550	119,078	445	255	700	99,153
SONOMA	4,445	16,701	3,768	24,914	1,081	9,793	240	11,114	1,515	174	1,689	26,603
STANISLAUS	25,424	242,804	103,901	372,129	8,249	171,858	16,576	196,683	1,858	138	1,996	374,125
SUTTER	2,188	24,892	41,392	68,472	1,080	7,911	956	9,947	357	6	363	68,835
TEHAMA	317	12,386	3,281	15,984	138	7,227	225	7,590	124	3	127	16,111
TRINITY	53	73	1	127	42	0	1	43	37	7	44	171
TULARE	17,326	132,702	101,540	251,568	10,409	114,773	36,119	161,301	1,437	360	1,797	253,365
TUOLUMNE	427	1,049	4	1,480	427	0	4	431	5	0	5	1,485
VENTURA	10,052	11,394	16,663	38,109	3,071	1,967	5,678	10,716	7,762	73	7,835	45,944
YOLO	3,652	103,719	32,338	139,709	1,577	68,208	2,212	71,997	490	708	1,198	140,907
YUBA	461	5,557	9,293	15,311	217	1,471	48	1,736	44	2	46	15,357
** UNKNOWN **	1,948	19,763	10,891	32,602	1,112	2,276	96	3,484	7,693	1,376	9,069	41,671
<b>TOTAL</b>	<b>346,395</b>	<b>2,975,243</b>	<b>1,721,760</b>	<b>5,043,398</b>	<b>158,451</b>	<b>2,045,084</b>	<b>483,479</b>	<b>2,687,014</b>	<b>97,205</b>	<b>13,847</b>	<b>112,063</b>	<b>5,155,461</b>

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 TONS OF NUTRIENTS BY FORM - INCLUDES FARM AND NON-FARM

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	791	219	349	1,359	622	178	279	1,079	169	40	70	280
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	39	31	77	148	23	20	52	95	17	11	25	53
BUTTE	20,674	4,907	8,865	34,447	5,209	2,762	7,377	15,348	15,465	2,146	1,488	19,099
CALAVERAS	41	26	22	90	26	19	13	58	15	7	9	31
COLUSA	23,613	5,315	6,477	35,405	4,789	2,485	3,753	11,027	18,824	2,830	2,724	24,379
CONTRA COSTA	1,898	590	591	3,078	946	225	320	1,491	952	364	271	1,587
DEL NORTE	23	60	5	89	17	3	5	25	6	57	0	63
EL DORADO	106	43	64	213	99	25	37	161	7	18	27	52
FRESNO	69,835	17,523	25,185	112,543	13,920	3,149	12,247	29,316	55,915	14,374	12,938	83,227
GLENN	7,743	2,109	2,385	12,238	2,439	1,627	2,045	6,111	5,305	482	340	6,127
HUMBOLDT	18,009	5,724	1,352	25,085	17,983	5,495	1,330	24,808	26	229	22	277
IMPERIAL	67,474	24,809	4,454	96,737	38,909	16,317	3,950	59,176	28,565	8,492	504	37,561
INYO	137	82	39	258	86	81	38	205	51	1	1	53
KERN	45,263	14,310	28,970	88,543	7,962	3,400	16,044	27,406	37,301	10,910	12,925	61,137
KINGS	21,346	6,303	6,843	34,491	3,611	1,319	3,821	8,751	17,735	4,983	3,022	25,740
LAKE	362	116	100	578	235	56	52	343	127	60	48	235
LASSEN	674	272	209	1,155	554	271	209	1,035	120	1	0	121
LOS ANGELES	29,510	5,222	3,204	37,936	27,867	5,066	3,029	35,962	1,643	157	175	1,975
MADERA	21,522	3,099	8,013	32,634	2,829	1,258	3,917	8,003	18,693	1,841	4,096	24,630
MARIN	242	90	98	430	234	90	96	420	8	0	2	10
MARIPOSA	1	0	0	1	0	0	0	0	1	0	0	1
MENDOCINO	962	1,031	1,045	3,038	881	938	852	2,672	81	93	193	367
MERCED	20,168	4,564	9,935	34,666	4,301	2,000	7,717	14,019	15,866	2,563	2,218	20,648
MODOC	4,296	1,418	705	6,419	3,943	1,370	705	6,018	353	48	0	402
MONO	112	184	314	611	103	183	309	596	10	1	5	16
MONTEREY	49,537	9,415	10,769	69,721	14,061	2,603	5,174	21,839	35,476	6,811	5,594	47,881
NAPA	930	616	1,205	2,751	782	474	764	2,021	147	142	441	730
NEVADA	188	116	48	353	161	108	41	311	27	8	7	42
ORANGE	4,517	980	946	6,443	3,189	555	532	4,276	1,328	424	414	2,167
PLACER	1,556	297	600	2,454	1,112	249	561	1,922	444	48	39	532
PLUMAS	34	1	3	38	27	1	3	31	6	0	0	6
RIVERSIDE	19,847	9,561	4,198	33,606	11,099	6,566	3,407	21,072	8,748	2,995	791	12,534
SACRAMENTO	8,013	1,706	3,123	12,841	3,195	648	926	4,769	4,818	1,058	2,197	8,072
SAN BENITO	2,983	615	548	4,146	1,145	168	129	1,442	1,838	447	419	2,704
SAN BERNARDINO	6,912	1,990	1,288	10,190	6,750	1,955	1,259	9,963	162	35	30	226
SAN DIEGO	7,126	1,144	1,825	10,095	6,562	1,078	1,767	9,407	564	66	58	688
SAN FRANCISCO	1,800	70	132	2,002	1,540	43	86	1,669	260	27	46	333
SAN JOAQUIN	24,256	5,813	14,427	44,496	7,219	2,875	9,208	19,302	17,037	2,938	5,219	25,194
SAN LUIS OBISPO	4,740	687	2,307	7,734	1,809	261	747	2,816	2,931	427	1,560	4,917
SAN MATEO	1,602	480	434	2,517	1,326	469	414	2,210	276	11	20	307
SANTA BARBARA	13,485	5,539	4,360	23,384	2,112	965	1,977	5,054	11,372	4,574	2,384	18,330
SANTA CLARA	3,019	927	1,550	5,495	2,512	787	981	4,280	507	140	569	1,215
SANTA CRUZ	2,866	725	649	4,239	2,398	493	556	3,448	468	232	93	792
SHASTA	2,786	456	422	3,664	2,625	433	401	3,459	161	23	21	204
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	4,166	1,547	1,682	7,395	3,719	1,411	1,674	6,805	447	136	8	590
SOLANO	11,199	3,825	2,983	18,007	2,718	1,609	1,794	6,120	8,481	2,216	1,189	11,887
SONOMA	3,590	1,531	2,507	7,629	2,711	1,184	1,611	5,505	880	348	896	2,124
STANISLAUS	36,087	12,140	30,754	78,981	12,082	7,734	24,529	44,345	24,005	4,406	6,225	34,636
SUTTER	13,325	1,475	2,928	17,728	4,887	939	1,847	7,673	8,437	536	1,081	10,055
TEHAMA	2,132	840	971	3,943	1,166	785	883	2,834	967	55	88	1,109
TRINITY	33	12	44	88	31	8	43	81	2	4	1	7
TULARE	30,855	7,331	10,197	48,383	6,514	1,429	5,137	13,080	24,341	5,902	5,060	35,303
TUOLUMNE	2	0	1	3	2	0	1	3	0	0	0	0
VENTURA	10,619	2,994	3,130	16,743	6,913	1,570	1,908	10,391	3,706	1,425	1,222	6,352
YOLO	11,281	2,871	4,161	18,312	3,500	991	2,888	7,379	7,781	1,880	1,273	10,934
YUBA	2,813	378	843	4,034	835	314	794	1,943	1,978	64	49	2,091
** UNKNOWN **	12,836	11,888	6,132	30,857	9,827	9,093	5,574	24,494	3,009	2,795	558	6,363
<b>TOTAL</b>	<b>649,986</b>	<b>186,021</b>	<b>224,476</b>	<b>1,060,482</b>	<b>262,125</b>	<b>96,140</b>	<b>145,821</b>	<b>504,087</b>	<b>387,860</b>	<b>89,881</b>	<b>78,655</b>	<b>556,396</b>