

# FERTILIZING MATERIALS TONNAGE REPORT

JANUARY – JUNE 2021



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 2019	JAN-JUNE 2020	JULY-DEC 2020	JAN-JUNE 2021	JULY-JUNE 2019-2020	JULY-JUNE 2020-2021
2	ANHYDROUS AMMONIA	3,402	5,980	4,420	5,272	9,382	9,692
6	AQUA AMMONIA	13,527	139,058	18,070	111,289	152,585	129,359
10	AMMONIUM NITRATE	946	1,938	5,004	682	2,884	5,686
12	AMMONIUM NITRATE SOLUTION	21,149	21,932	25,531	21,993	43,081	47,524
20	AMMONIUM POLYSULFIDE	352	2,680	79	65	3,032	144
24	AMMONIUM SULFATE	32,911	69,179	46,604	69,855	102,090	116,459
31	AMMONIUM THIOSULFATE	13,364	37,697	12,601	3,934	51,061	16,535
35	CALCIUM AMMONIUM NITRATE SOLUTION	42,485	132,568	56,922	146,366	175,053	203,288
43	CALCIUM NITRATE	6,510	16,445	12,924	21,884	22,955	34,808
58	NITROGEN SOLUTION 28%	986	2,044	7,767	3,965	3,030	11,732
60	NITROGEN SOLUTION 32%	146,836	403,806	188,238	387,766	550,642	576,004
62	SODIUM NITRATE	86	143	218	486	229	704
64	SULFUR COATED UREA	7	489	576	460	496	1,036
66	UREA	49,464	95,612	75,628	52,701	145,076	128,329
67	UREA SOLUTION	4,388	2,118	1,537	2,701	6,506	4,238
0	NON-FARM USE NITROGEN	16,273	26,908	29,246	39,096	43,181	68,342
98	NITROGEN MATERIALS - COMPOST	5,190	7,060	7,989	2,622	12,250	10,611
203	DIAMMONIUM PHOSPHATE	264	2,955	2	189	3,219	191
207	AMMONIUM PHOSPHATE SULFATE	4,649	14,403	4,766	10,023	19,052	14,789
209	MONOAMMONIUM PHOSPHATE	29,248	23,909	58,111	25,033	53,157	83,144
248	PHOSPHORIC ACID	4,663	10,312	17,881	9,838	14,975	27,719
249	LIQUID AMMONIUM POLYPHOSPHATE	16,327	35,191	44,990	31,545	51,518	76,535
263	NORMAL SUPERPHOSPHATE	0	0	2	49	0	51
267	TRIPLE SUPERPHOSPHATE	127	253	247	270	380	517
0	NON-FARM USE PHOSPHORUS	9,444	20,519	11,820	14,247	29,963	26,067
298	PHOSPHORUS MATERIALS - COMPOST	7,301	2,312	2,806	1,947	9,613	4,753
428	MURIATE OF POTASH	19,231	36,923	22,038	20,058	56,154	42,096
443	SULFATE OF POTASH MAGNESIA	13,308	17,787	19,082	20,653	31,095	39,735
453	POTASSIUM NITRATE	3,229	4,592	3,458	5,277	7,821	8,735
463	POTASSIUM SULFATE	55,936	69,939	80,952	65,675	125,875	146,627
0	NON-FARM USE POTASH	6,663	11,917	11,915	19,151	18,580	31,066
498	POTASSIUM MATERIALS - COMPOST	5,300	1,729	3,748	1,667	7,029	5,415
601	BLOOD MEAL	2,558	119	166	31	2,677	197
667	SEWAGE SLUDGE	146,295	107,253	94,807	100,910	253,548	195,717
723	COPPER - ALL MATERIALS	689	3,306	442	1,367	3,995	1,809
731	IRON - ALL MATERIALS	1,499	1,245	3,969	5,380	2,744	9,349
732	GYPSUM - ALL MATERIALS	955,726	820,461	1,048,540	527,583	1,776,187	1,576,123
770	SULFUR	66,605	66,376	100,571	107,621	132,981	208,192
774	SULFURIC ACID	76,526	72,608	76,195	89,190	149,134	165,385
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	173,732	266,496	213,871	292,516	440,228	506,387
907	LIMING MATERIALS - ALL MATERIALS	178,260	108,988	239,027	112,128	287,248	351,155
0	NON-FARM USE SECONDARY/MICRONUTRIENTS	27,394	18,829	13,886	14,684	46,211	28,570
613	OIM BULK COMPOST - NO NUTRIENTS	271,757	209,056	367,247	156,068	480,813	523,315
0	TOTAL	2,434,607	2,893,123	2,933,893	2,504,237	5,327,730	5,438,130

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 2019 N	JUL-DEC 2019 P2O5	JUL-DEC 2019 K2O	JUL-DEC 2020 N	JUL-DEC 2020 P2O5	JUL-DEC 2020 K2O
0	NON-FARM USE NITROGEN	16,273	0	0	29246	0	0
0	NON-FARM USE PHOSPHORUS	0	9,444	0	0	11820	0
0	NON-FARM USE POTASH	0	0	6,663	0	0	11915
2	ANHYDROUS AMMONIA	2,790	0	0	3624	0	0
6	AQUA AMMONIA	2,705	0	0	3614	0	0
10	AMMONIUM NITRATE	322	0	0	1701	0	0
12	AMMONIUM NITRATE SOLUTION	4,230	0	0	5106	0	0
20	AMMONIUM POLYSULFIDE	70	0	0	16	0	0
24	AMMONIUM SULFATE	6,911	0	0	9787	0	0
31	AMMONIUM THIOSULFATE	1,604	0	0	1512	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	7,222	0	0	9677	0	0
43	CALCIUM NITRATE	977	0	0	1939	0	0
58	NITROGEN SOLUTION 28%	276	0	0	2175	0	0
60	NITROGEN SOLUTION 32%	46,988	0	0	60236	0	0
62	SODIUM NITRATE	14	0	0	35	0	0
64	SULFUR COATED UREA	3	0	0	207	0	0
66	UREA	22,753	0	0	34789	0	0
67	UREA SOLUTION	878	0	0	307	0	0
97	NITROGEN MATERIALS - ALL OTHER	97,530	0	0	69659	0	0
98	NITROGEN MATERIALS - COMPOST	5,190	0	0	7989	0	0
203	DIAMMONIUM PHOSPHATE	48	121	0	0	1	0
207	AMMONIUM PHOSPHATE SULFATE	744	930	0	763	1049	0
209	MONOAMMONIUM PHOSPHATE	3,217	15,209	0	6392	30218	0
248	PHOSPHORIC ACID	0	2,518	0	0	9656	0
249	LIQUID AMMONIUM POLYPHOSPHATE	1,633	5,551	0	4499	15297	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	58	0	0	114	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	32,383	0	0	41998	0
298	PHOSPHORUS MATERIALS - COMPOST	0	7,301	0	0	2806	0
428	MURIATE OF POTASH	0	0	11,539	0	0	13223
443	SULFATE OF POTASH MAGNESIA	0	0	2,928	0	0	4198
453	POTASSIUM NITRATE	452	0	1,421	484	0	1522
463	POTASSIUM SULFATE	0	0	27,968	0	0	40476
497	POTASSIUM MATERIALS - ALL OTHER	0	0	38,966	0	0	45603
498	POTASSIUM MATERIALS - COMPOST	0	0	5,300	0	0	3748
601	BLOOD MEAL	307	0	0	20	0	0
667	SEWAGE SLUDGE	8,778	2,926	1,463	5688	1896	948
0	TOTAL	231,913	76,442	96,247	259466	114854	121632

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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
		2020 N	2020 P2O5	2020 K2O	2021 N	2021 P2O5	2021 K2O
0	NON-FARM USE NITROGEN	26,908	0	0	39,096	0	0
0	NON-FARM USE PHOSPHORUS	0	20,519	0	0	14,247	0
0	NON-FARM USE POTASH	0	0	11,917	0	0	19,151
2	ANHYDROUS AMMONIA	4,904	0	0	4,323	0	0
6	AQUA AMMONIA	27,812	0	0	22,258	0	0
10	AMMONIUM NITRATE	659	0	0	232	0	0
12	AMMONIUM NITRATE SOLUTION	4,386	0	0	4,399	0	0
20	AMMONIUM POLYSULFIDE	536	0	0	13	0	0
24	AMMONIUM SULFATE	14,528	0	0	14,670	0	0
31	AMMONIUM THIOSULFATE	4,524	0	0	472	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	22,537	0	0	24,882	0	0
43	CALCIUM NITRATE	2,467	0	0	3,283	0	0
58	NITROGEN SOLUTION 28%	572	0	0	1,110	0	0
60	NITROGEN SOLUTION 32%	129,218	0	0	124,085	0	0
62	SODIUM NITRATE	23	0	0	78	0	0
64	SULFUR COATED UREA	176	0	0	166	0	0
66	UREA	43,982	0	0	24,242	0	0
67	UREA SOLUTION	424	0	0	540	0	0
97	NITROGEN MATERIALS - ALL OTHER	147,393	0	0	237,799	0	0
98	NITROGEN MATERIALS - COMPOST	7,060	0	0	2,622	0	0
203	DIAMMONIUM PHOSPHATE	532	1,359	0	34	87	0
207	AMMONIUM PHOSPHATE SULFATE	2,304	2,881	0	1,604	2,005	0
209	MONOAMMONIUM PHOSPHATE	2,630	12,433	0	2,754	13,017	0
248	PHOSPHORIC ACID	0	5,568	0	0	5,313	0
249	LIQUID AMMONIUM POLYPHOSPHATE	3,519	11,965	0	3,155	10,725	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	11	0
267	TRIPLE SUPERPHOSPHATE	0	116	0	0	124	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	75,790	0	0	80,751	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,312	0	0	1,947	0
428	MURIATE OF POTASH	0	0	22,154	0	0	12,035
443	SULFATE OF POTASH MAGNESIA	0	0	3,913	0	0	4,544
453	POTASSIUM NITRATE	643	0	2,020	739	0	2,322
463	POTASSIUM SULFATE	0	0	34,970	0	0	32,838
497	POTASSIUM MATERIALS - ALL OTHER	0	0	104,132	0	0	87,381
498	POTASSIUM MATERIALS - COMPOST	0	0	1,729	0	0	1,667
601	BLOOD MEAL	14	0	0	4	0	0
667	SEWAGE SLUDGE	6,435	2,145	1,073	6,055	2,018	1,009
0	TOTAL	454,184	135,088	181,908	518,612	130,245	160,946

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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
		19-20 N	19-20 P2O5	19-20 K2O	20-21 N	20-21 P2O5	20-21 K2O
0	NON-FARM USE NITROGEN	43,181	0	0	68,342	0	0
0	NON-FARM USE PHOSPHORUS	0	29,963	0	0	26,067	0
0	NON-FARM USE POTASH	0	0	18,580	0	0	31,066
2	ANHYDROUS AMMONIA	7,693	0	0	7,947	0	0
6	AQUA AMMONIA	30,517	0	0	25,872	0	0
10	AMMONIUM NITRATE	981	0	0	1,933	0	0
12	AMMONIUM NITRATE SOLUTION	8,616	0	0	9,505	0	0
20	AMMONIUM POLYSULFIDE	606	0	0	29	0	0
24	AMMONIUM SULFATE	21,439	0	0	24,456	0	0
31	AMMONIUM THIOSULFATE	6,127	0	0	1,984	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	29,759	0	0	34,559	0	0
43	CALCIUM NITRATE	3,443	0	0	5,221	0	0
58	NITROGEN SOLUTION 28%	848	0	0	3,285	0	0
60	NITROGEN SOLUTION 32%	176,205	0	0	184,321	0	0
62	SODIUM NITRATE	37	0	0	113	0	0
64	SULFUR COATED UREA	179	0	0	373	0	0
66	UREA	66,735	0	0	59,031	0	0
67	UREA SOLUTION	1,301	0	0	848	0	0
97	NITROGEN MATERIALS - ALL OTHER	244,923	0	0	307,458	0	0
98	NITROGEN MATERIALS - COMPOST	12,250	0	0	10,611	0	0
203	DIAMMONIUM PHOSPHATE	579	1,481	0	34	88	0
207	AMMONIUM PHOSPHATE SULFATE	3,048	3,810	0	2,366	3,053	0
209	MONOAMMONIUM PHOSPHATE	5,847	27,642	0	9,146	43,235	0
248	PHOSPHORIC ACID	0	8,087	0	0	14,968	0
249	LIQUID AMMONIUM POLYPHOSPHATE	5,152	17,516	0	7,654	26,022	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	11	0
267	TRIPLE SUPERPHOSPHATE	0	175	0	0	238	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	108,173	0	0	122,749	0
298	PHOSPHORUS MATERIALS - COMPOST	0	9,613	0	0	4,753	0
428	MURIATE OF POTASH	0	0	33,692	0	0	25,258
443	SULFATE OF POTASH MAGNESIA	0	0	6,841	0	0	8,742
453	POTASSIUM NITRATE	1,095	0	3,441	1,223	0	3,843
463	POTASSIUM SULFATE	0	0	62,938	0	0	73,314
497	POTASSIUM MATERIALS - ALL OTHER	0	0	143,098	0	0	132,984
498	POTASSIUM MATERIALS - COMPOST	0	0	7,029	0	0	5,415
601	BLOOD MEAL	321	0	0	24	0	0
667	SEWAGE SLUDGE	15,213	5,071	2,536	11,743	3,914	1,957
0	TOTAL	686,097	211,530	278,155	778,079	245,098	282,578

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 TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST  
 JANUARY-JUNE 2021  
 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	2	0	0	23	3	0	75	54	0	174	0	0	24	132	0	508	
ALPINE	0	0	0	0	0	23	0	0	0	0	0	0	0	0	4	0	0	0	
AMADOR	0	0	0	0	0	154	0	0	1	0	0	0	0	0	5	9	0	2	
BUTTE	0	25,734	0	26	6	9,574	740	0	627	177	0	7,430	0	1,441	0	938	3	119	
CALAVERAS	0	0	0	0	0	19	0	0	6	0	0	8	0	0	0	0	0	14	
COLUSA	132	25,747	0	0	0	3,429	1	0	8,915	9	0	11,035	0	624	0	5,298	13	0	
CONTRA COSTA	0	0	19	89	0	19	3	0	351	33	0	2,118	0	110	0	523	0	499	
DEL NORTE	0	0	0	0	0	6	0	0	0	0	0	0	0	14	0	0	0	6	
EL DORADO	0	0	0	0	0	24	0	0	20	9	0	8	0	0	0	15	0	50	
FRESNO	104	18	0	0	33	1,082	109	0	17,515	7,746	73	54,681	301	1,820	37	18,808	427	817	
GLENN	0	18,262	1	0	0	4,444	345	0	1,030	7	0	9,268	0	126	0	1,625	0	33	
HUMBOLDT	0	0	0	12	0	1	0	0	0	0	0	0	0	0	23	0	10	1,095	
IMPERIAL	1,788	0	38	2,118	0	5,132	181	23	1,877	445	286	31,438	23	25,649	0	5,069	215	3	
INYO	0	0	0	0	0	2	0	0	18	117	0	94	0	2	0	29	0	1	
KERN	123	0	0	117	0	521	482	0	10,442	480	5	37,969	0	1,488	77	8,857	517	1,385	
KINGS	1,143	38	0	0	0	870	69	0	3,204	187	233	20,198	0	505	48	1,310	18	100	
LAKE	0	24	0	0	0	56	0	0	194	28	0	118	0	2	0	56	18	0	
LASSEN	0	0	0	119	0	365	0	0	48	0	0	304	0	163	0	35	0	4	
LOS ANGELES	0	0	1	6	0	120	0	0	396	97	0	109	0	386	175	384	6	7,572	
MADERA	0	28	0	0	0	372	35	0	15,868	30	35	21,631	0	615	115	3,839	76	25	
MARIN	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	4	0	217	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
MENDOCINO	26	498	15	0	0	36	0	0	260	112	0	99	0	172	0	302	90	920	
MERCED	0	4	0	6	0	871	71	0	10,946	529	193	22,107	0	873	11	4,328	5	196	
MODOC	0	0	0	48	0	872	29	0	1	0	0	190	0	357	639	0	9	109	
MONO	0	0	0	0	0	68	0	0	0	0	0	11	0	53	0	3	0	1	
MONTEREY	0	50	27	9,759	0	1,099	1,020	0	5,820	723	736	8,993	0	760	282	20,182	0	177	
NAPA	0	0	0	0	0	0	2	0	227	98	0	103	0	4	0	331	3	86	
NEVADA	0	0	0	0	0	0	0	0	2	2	0	2	0	2	0	13	3	101	
ORANGE	0	0	25	25	0	51	0	0	103	197	0	326	0	171	0	732	0	1,292	
PLACER	0	1,358	16	48	0	372	0	0	52	34	0	300	0	42	0	181	145	640	
PLUMAS	0	0	0	0	0	13	0	0	0	0	0	0	0	5	0	8	0	7	
RIVERSIDE	38	0	7	2,560	0	302	37	0	2,562	497	0	7,195	0	621	0	5,588	58	4,469	
SACRAMENTO	273	1,199	11	0	0	275	1	0	1,304	993	262	1,891	0	408	0	5,509	0	2,230	
SAN BENTO	0	0	10	6	0	8	0	0	372	3	0	82	0	30	0	724	2	5	
SAN BERNARDINO	0	0	40	60	0	95	0	0	80	107	0	139	0	92	0	279	154	3,492	
SAN DIEGO	0	0	383	77	0	68	0	0	290	570	0	127	0	214	0	2,020	0	1,199	
SAN FRANCISCO	0	337	0	0	0	35	0	0	0	8	0	297	0	0	0	139	0	36	
SAN JOAQUIN	109	0	1	58	0	3,060	403	0	10,088	856	0	27,187	0	1,117	0	6,048	0	2,269	
SAN LUIS OBISPO	0	0	0	729	0	284	0	0	765	144	0	685	0	76	0	639	67	104	
SAN MATEO	0	59	8	0	0	147	0	0	0	723	0	0	0	1	138	0	256	764	
SANTA BARBARA	0	0	0	3,717	0	189	21	0	2,068	941	0	5,066	0	358	0	24,392	172	184	
SANTA CLARA	0	0	9	0	0	54	0	0	34	327	0	235	0	197	0	1,205	6	787	
SANTA CRUZ	0	0	0	5	0	132	0	4	0	128	0	63	0	2	164	13	962	35	87
SHASTA	0	0	4	140	0	1,262	100	0	132	5	0	37	0	589	0	53	0	63	
SIERRA	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	8	0	0	
SISKIYOU	0	0	0	0	0	1,224	114	0	475	0	0	241	0	99	1,541	14	285	120	341
SOLANO	673	128	0	240	0	1,816	0	0	1,058	360	608	5,168	0	967	1,618	8,231	11	448	
SONOMA	0	121	31	415	0	30	20	4	431	571	0	23	0	180	0	969	45	238	
STANISLAUS	394	0	0	52	26	7,419	112	0	25,987	623	0	35,446	0	2,464	0	15,272	57	415	
SUTTER	0	28,557	0	93	0	6,946	0	0	3,127	485	687	7,543	163	987	0	7,533	0	248	
TEHAMA	0	165	0	0	0	2,814	0	0	546	107	41	2,603	0	102	0	190	0	102	
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	44
TULARE	412	77	0	2	0	1,504	8	0	6,516	1,024	14	19,978	0	2,296	25	9,566	304	175	
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	16	0	3	
VENTURA	0	275	34	503	0	115	0	0	3,036	965	0	1,210	0	1	269	0	4,615	10	388
YOLO	57	4,492	0	0	0	1,516	0	0	7,695	672	560	14,722	0	773	0	3,559	23	239	
YUBA	0	4,118	0	931	0	1,454	6	0	980	31	232	1,107	16	0	148	0	5,453	0	26
** UNKNOWN **	0	0	0	30	0	9,394	22	0	832	628	0	28,002	43	0	3,272	286	60,847	4	4,735
TOTAL	5,272	111,289	682	21,993	65	69,855	3,934	31	146,366	21,884	3,965	387,766	486	460	52,701	2,701	237,799	2,622	39,096

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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	15	0	0	2	0	0	16	0	0	0	10	1	12	23	0	159
ALPINE	0	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0
AMADOR	0	4	0	0	0	0	0	20	0	0	11	0	0	0	17	0	0
BUTTE	0	510	2,072	0	2,333	0	0	763	2	466	3,097	98	216	5,428	1,435	3	82
CALAVERAS	0	0	0	0	0	0	0	6	0	51	2	0	0	0	6	0	8
COLUSA	108	1,632	1,349	279	1,797	0	0	1,331	6	0	115	717	55	1,340	2,954	12	1
CONTRA COSTA	0	0	29	8	155	0	2	122	0	728	15	13	31	5	328	0	169
DEL NORTE	0	0	2	0	0	0	0	0	0	7	6	0	0	0	0	0	1
EL DORADO	1	0	0	0	1	0	0	17	0	6	0	0	0	10	19	0	10
FRESNO	0	13	370	176	1,160	44	1	7,643	237	103	323	4,159	355	4,150	12,136	171	325
GLENN	0	710	1,457	0	149	0	0	1,272	0	92	118	114	118	4,273	3,086	0	1
HUMBOLDT	0	0	1	0	0	0	0	48	5	1,519	1	0	1	0	13	9	775
IMPERIAL	0	3	3,962	2,626	2,166	0	0	3,658	320	0	84	62	127	1,166	1,036	427	43
INYO	0	0	0	3	0	0	0	10	0	0	0	0	4	5	18	0	0
KERN	0	274	771	699	3,909	1	2	3,982	592	29	1,658	3,787	964	6,543	9,074	193	61
KINGS	1	19	1,299	1,994	2,325	0	0	831	214	31	618	718	46	1,055	1,244	51	70
LAKE	0	0	27	0	70	0	0	20	4	33	2	1	2	53	52	8	4
LASSEN	0	0	38	0	7	0	0	9	0	1	0	0	0	5	1	0	2
LOS ANGELES	0	7	75	0	41	0	5	881	3	3,749	7	50	42	59	189	4	7,247
MADERA	0	0	259	437	1,089	0	0	1,494	68	3	417	1,175	290	1,822	4,004	23	9
MARIN	0	0	0	0	0	0	0	1	0	65	0	0	0	2	82	0	0
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	0	4	0	488	0	0	106	43	983	0	11	1	95	142	98	1,224
MERCED	0	0	659	31	866	0	0	2,312	5	18	900	1,225	90	1,744	3,291	5	56
MODOC	0	1,100	774	0	5	0	0	0	5	43	688	0	0	347	0	4	1
MONO	0	0	13	2	25	0	0	1	0	0	21	0	1	0	1	0	0
MONTEREY	0	0	219	725	259	0	3	4,016	0	78	3	284	238	1,504	3,477	0	159
NAPA	0	6	36	1	25	0	0	190	1	15	0	0	25	52	276	2	37
NEVADA	0	0	19	0	0	0	0	23	2	54	0	0	0	0	10	1	25
ORANGE	0	18	1	2	29	0	6	414	0	299	1	59	7	26	332	0	336
PLACER	0	118	102	0	0	0	0	15	56	90	133	0	0	9	43	114	247
PLUMAS	0	0	8	0	0	0	0	1	0	1	4	0	0	0	2	0	3
RIVERSIDE	0	1	697	219	2,241	0	21	1,992	35	1,005	668	30	162	335	827	52	819
SACRAMENTO	0	261	198	0	124	0	0	2,422	0	309	37	2	18	91	1,482	0	623
SAN BENITO	0	0	0	0	11	0	0	271	0	0	0	91	0	22	127	0	0
SAN BERNARDINO	0	0	98	31	2	0	4	19	71	571	0	3	42	3	27	132	968
SAN DIEGO	0	21	61	24	0	0	97	646	0	531	44	182	259	1,292	448	0	657
SAN FRANCISCO	0	0	6	0	0	0	0	19	0	20	0	154	4	0	31	0	46
SAN JOAQUIN	0	7	314	103	530	0	0	4,222	0	220	918	513	47	2,248	4,825	0	641
SAN LUIS OBISPO	0	3	48	3	75	0	8	322	34	57	50	291	536	320	594	52	52
SAN MATEO	0	0	0	1	0	0	0	186	0	40	0	0	11	16	123	0	98
SANTA BARBARA	0	3	92	272	283	0	49	2,337	4	40	118	600	40	555	2,195	3	210
SANTA CLARA	0	0	22	0	37	0	5	559	2	132	1	121	6	43	561	3	225
SANTA CRUZ	0	2	23	2	7	0	2	395	0	20	0	44	99	140	188	0	28
SHASTA	0	354	269	1	0	0	27	0	139	172	0	4	262	48	0	0	151
SIERRA	0	4	2	0	0	0	0	12	0	0	0	0	0	0	25	0	0
SISKIYOU	0	879	1,823	0	6	0	0	266	0	59	1,891	40	0	778	49	0	146
SOLANO	0	1,551	623	0	2,685	0	31	1,844	6	39	20	220	46	266	2,016	7	75
SONOMA	0	14	65	0	162	1	1	1,528	21	89	0	2	50	338	1,030	40	163
STANISLAUS	0	31	2,088	252	2,993	0	0	7,813	22	142	4,761	572	422	6,130	5,868	31	185
SUTTER	0	1,556	1,148	0	1,214	0	0	261	132	566	209	237	2,302	1,264	1,264	0	328
TEHAMA	0	31	894	0	210	0	0	51	0	91	36	9	84	2,630	208	0	20
TRINITY	0	0	0	0	0	0	0	0	1	20	0	0	0	0	0	2	21
TULARE	0	0	162	1,567	982	3	0	4,331	169	92	1,375	3,807	485	3,915	4,558	182	78
TUOLUMNE	0	0	0	0	8	0	0	1	0	0	0	0	0	0	1	0	0
VENTURA	79	61	191	342	43	0	27	994	8	40	59	1,143	2	835	864	9	74
YOLO	0	598	381	1	2,848	0	6	3,763	11	191	192	106	30	717	1,950	21	156
YUBA	0	217	371	0	183	0	0	105	0	0	792	53	95	429	119	0	0
** UNKNOWN **	0	0	1,892	36	0	0	0	16,963	0	2,408	149	0	24	11,703	14,743	8	2,250
TOTAL	189	10,023	25,033	9,838	31,545	49	270	80,751	1,947	14,247	20,058	20,653	5,277	65,675	87,381	1,687	19,151



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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	0	4	1	0	8	0	16	12	1,430
ALPINE	0	0	0	0	0	0	0	2	0	0
AMADOR	0	0	0	0	0	7	0	2	0	0
BUTTE	11	4	1,716	762	0	483	1	434	14	413
CALAVERAS	0	0	46	0	0	14	0	3	312	0
COLUSA	580	3	7,099	515	0	162	964	10,063	45	127
CONTRA COSTA	3	6	4	8	0	45	0	97	146	0
DEL NORTE	0	0	0	0	0	2	0	3	0	0
EL DORADO	0	0	2	1	0	11	0	1	31	0
FRESNO	52	142	145,801	1,241	2,991	3,463	5,100	26,393	1,040	25,791
GLENN	49	0	2,731	128	0	253	1	680	22	0
HUMBOLDT	0	2	24	2,353	0	0	0	54	774	33
IMPERIAL	0	36	1,685	53,201	0	741	1,686	1,537	5	15,139
INYO	0	5	3,860	9	0	0	1	0	0	0
KERN	46	24	210,670	10,662	2,739	66,575	9,752	22,750	831	0
KINGS	23	3	17,233	4,409	634	2,357	57,219	89,770	0	22
LAKE	0	0	167	2	0	12	0	54	0	0
LASSEN	0	2	103	96	0	13	0	70	0	0
LOS ANGELES	0	35	321	39	7,034	212	200	2,928	332	0
MADERA	4	7	1,655	169	11,256	800	359	2,084	32	2,048
MARIN	0	0	0	0	0	0	0	0	1	0
MARIPOSA	0	0	0	0	2,372	0	0	0	0	0
MENDOCINO	0	0	120	9	0	38	0	90	30	0
MERCED	1	3	14,200	1,404	1,487	3,999	388	2,521	8	7,028
MODOC	0	0	355	0	0	403	24	78	0	458
MONO	0	0	0	0	0	0	1	3	0	0
MONTEREY	5	26	6,228	6,803	0	78	87	1,541	112	14,924
NAPA	0	1	518	97	0	2	0	22	1	10,353
NEVADA	0	0	0	0	0	0	0	0	27	85
ORANGE	0	9	88	11	17	12	0	159	86	0
PLACER	0	0	121	31	0	4	0	12	77	0
PLUMAS	0	0	79	0	0	26	0	1	0	0
RIVERSIDE	1	2,935	952	22	5,071	332	0	2,308	974	9,605
SACRAMENTO	0	60	269	313	1,568	610	0	8,395	1,940	56
SAN BENITO	0	0	800	102	0	0	14	59	1	215
SAN BERNARDINO	0	3	110	12	3,307	6	0	115	664	12,498
SAN DIEGO	10	162	520	132	0	97	0	577	1,349	5,488
SAN FRANCISCO	0	0	8	0	0	0	0	62	3	0
SAN JOAQUIN	1	317	6,780	5,759	0	8,559	268	2,143	182	0
SAN LUIS OBISPO	2	7	1,339	30	0	44	0	1,505	93	24
SAN MATEO	0	47	19	301	0	2	0	53	136	273
SANTA BARBARA	70	14	1,943	2,720	0	379	68	3,609	37	0
SANTA CLARA	0	0	184	82	0	4	13	43	51	49
SANTA CRUZ	0	4	1,462	1,271	0	0	28	1,010	136	322
SHASTA	13	1	705	5,726	0	29	1	62	2	182
SIERRA	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	0	1,429	72	0	2,012	188	345	2	191
SOLANO	2	1	2,281	1	59,107	56	15	50	224	690
SONOMA	5	35	816	239	0	29	0	220	542	0
STANISLAUS	359	974	32,491	6,407	0	9,870	656	63,283	3,518	19,889
SUTTER	40	2	2,568	334	0	216	0	735	3	26
TEHAMA	0	31	662	105	0	325	6	153	0	66
TRINITY	0	0	0	0	0	0	0	0	1	0
TULARE	84	437	37,752	3,300	16	4,423	10,480	15,624	535	7,870
TUOLUMNE	0	0	1	551	0	0	0	0	0	887
VENTURA	0	36	2,434	57	82	217	85	1,294	80	3,062
YOLO	5	1	2,413	0	3,229	414	931	7,317	55	16,822
YUBA	1	0	514	218	0	192	0	11	83	2
** UNKNOWN **	0	5	14,301	2,423	0	85	654	22,175	135	0
TOTAL	1,367	5,380	527,583	112,128	100,910	107,621	89,190	292,516	14,684	156,068

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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	179	1,457	390	2,026	15	1	13	29	673	94	767	2,793
ALPINE	0	45	0	45	0	2	0	2	0	0	0	45
AMADOR	11	190	29	230	1	0	8	9	2	0	2	232
BUTTE	3,971	23,648	38,858	66,477	317	2,757	337	3,411	261	420	681	67,158
CALAVERAS	46	23	48	117	46	0	17	63	339	46	385	502
COLUSA	3,838	23,279	59,294	86,411	1,971	12,922	4,493	19,386	52	0	52	86,463
CONTRA COSTA	469	127	3,535	4,131	23	3	137	163	894	48	942	5,073
DEL NORTE	2	31	0	33	2	3	0	5	4	10	14	47
EL DORADO	61	26	53	140	3	0	12	15	67	29	96	236
FRESNO	28,808	191,419	124,442	344,669	8,976	153,152	20,067	182,195	2,080	202	2,282	346,951
GLENN	1,492	16,965	31,764	50,221	447	2,773	622	3,842	55	1	56	50,277
HUMBOLDT	196	2,372	322	2,890	116	2,304	310	2,730	3,303	563	3,866	6,756
IMPERIAL	15,286	97,461	51,417	164,164	407	54,811	3,668	58,886	7	44	51	164,215
INYO	189	3,865	123	4,177	14	3,860	1	3,875	1	0	1	4,178
KERN	15,807	312,280	88,683	416,770	6,290	298,399	15,790	320,479	2,261	20	2,281	419,051
KINGS	90,110	27,868	91,930	209,908	88,582	24,257	58,175	171,014	186	15	201	210,109
LAKE	116	286	559	961	30	173	32	235	21	34	55	1,016
LASSEN	24	589	765	1,378	23	12	249	284	7	0	7	1,385
LOS ANGELES	2,601	8,725	2,488	13,814	561	1,356	1,818	3,735	18,431	467	18,898	32,712
MADERA	3,274	18,964	49,824	72,062	762	1,820	2,496	5,078	32	37	69	72,131
MARIN	2	44	6	52	0	0	0	0	360	5	365	417
MARIPOSA	0	2,372	0	2,372	0	0	0	0	2	0	2	2,374
MENDOCINO	914	386	1,546	2,846	127	91	39	257	3,065	92	3,157	6,003
MERCED	3,665	32,437	46,001	82,103	1,014	16,737	4,765	22,516	261	17	278	82,381
MODOC	31	5,534	821	6,386	0	451	409	860	153	0	153	6,539
MONO	5	159	39	203	0	3	1	4	1	0	1	204
MONTEREY	4,708	36,106	49,074	89,888	488	13,559	721	14,768	415	74	489	90,377
NAPA	507	10,987	881	12,375	84	533	23	640	137	2	139	12,514
NEVADA	35	110	17	162	0	0	0	0	169	38	207	369
ORANGE	1,222	274	1,325	2,821	124	79	76	279	1,360	653	2,013	4,834
PLACER	275	1,110	1,961	3,346	56	111	1	168	921	93	1,014	4,360
PLUMAS	17	125	5	147	1	105	0	106	11	0	11	158
RIVERSIDE	4,472	20,747	22,772	47,991	622	1,362	4,566	6,550	6,741	506	7,247	55,238
SACRAMENTO	1,873	12,964	13,195	28,032	327	8,526	794	9,647	3,767	1,335	5,102	33,134
SAN BENITO	895	719	1,335	2,949	695	208	72	975	5	1	6	2,955
SAN BERNARDINO	953	16,223	422	17,598	192	47	7	246	5,352	274	5,626	23,224
SAN DIEGO	6,666	6,203	928	13,797	948	368	146	1,462	3,678	70	3,748	17,545
SAN FRANCISCO	190	113	797	1,100	9	0	61	70	69	36	105	1,205
SAN JOAQUIN	4,330	24,470	57,681	86,481	1,268	14,688	7,871	23,827	3,245	67	3,312	89,793
SAN LUIS OBISPO	1,859	2,132	4,687	8,678	112	1,602	1,213	2,927	269	35	304	8,982
SAN MATEO	1,748	550	69	2,367	370	52	0	422	1,018	20	1,038	3,405
SANTA BARBARA	4,156	8,952	39,170	52,278	236	8,084	483	8,803	458	13	471	52,749
SANTA CLARA	1,671	1,174	957	3,802	208	79	39	326	1,140	55	1,195	4,997
SANTA CRUZ	1,715	4,154	638	6,507	222	3,460	93	3,775	268	3	271	6,778
SHASTA	294	8,828	1,056	10,178	90	6,009	438	6,537	210	145	355	10,533
SIERRA	50	51	0	101	0	0	0	0	0	0	0	101
SISKIYOU	1,747	11,088	1,247	14,082	267	3,479	300	4,046	544	4	548	14,630
SOLANO	1,622	10,364	80,410	92,396	92	2,261	53	2,406	471	315	786	93,182
SONOMA	3,134	997	3,305	7,436	528	765	51	1,344	838	194	1,032	8,468
STANISLAUS	8,409	82,880	161,479	252,768	3,388	39,055	71,597	114,040	4,038	218	4,256	257,024
SUTTER	3,567	18,715	47,457	69,739	473	2,757	665	3,895	703	8	711	70,450
TEHAMA	359	7,830	3,880	12,069	21	1,223	38	1,282	126	87	213	12,282
TRINITY	0	5	0	5	0	0	0	0	83	3	86	91
TULARE	12,751	60,779	69,720	143,250	4,062	43,926	24,114	72,102	700	178	878	144,128
TUOLUMNE	5	1,438	27	1,470	1	551	0	552	3	0	3	1,473
VENTURA	5,491	7,527	9,939	22,957	669	2,298	1,156	4,123	513	69	582	23,539
YOLO	2,915	29,348	43,562	75,825	1,156	8,715	1,210	11,081	629	12	641	76,466
YUBA	584	4,458	12,819	17,861	110	900	9	1,019	6	20	26	17,887
** UNKNOWN **	25,091	90,191	74,337	189,619	916	30,694	8,033	39,643	7,691	739	8,430	198,049
<b>TOTAL</b>	<b>274,408</b>	<b>1,252,164</b>	<b>1,298,089</b>	<b>2,824,661</b>	<b>127,462</b>	<b>771,383</b>	<b>237,289</b>	<b>1,136,134</b>	<b>78,096</b>	<b>7,411</b>	<b>85,507</b>	<b>2,910,168</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**JANUARY-JUNE 2021**  
**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	736	108	191	1,035	532	66	152	750	204	42	39	285
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	46	21	24	91	44	10	17	71	2	11	7	20
BUTTE	12,059	3,204	6,209	21,472	3,601	1,818	5,365	10,784	8,458	1,385	844	10,687
CALAVERAS	29	57	15	101	18	7	9	34	11	50	6	67
COLUSA	17,246	3,176	3,888	24,310	3,296	1,384	1,490	6,170	13,950	1,793	2,398	18,141
CONTRA COSTA	1,866	246	445	2,558	692	185	288	1,165	1,174	136	237	1,547
DEL NORTE	14	8	5	27	10	2	5	17	4	6	0	10
EL DORADO	78	24	34	135	70	18	28	116	8	5	6	19
FRESNO	43,147	8,678	15,972	67,796	7,220	1,331	7,412	15,963	35,927	7,346	8,560	51,833
GLENN	9,791	2,222	5,356	17,369	2,104	1,787	4,565	8,455	7,687	436	791	8,913
HUMBOLDT	1,132	1,573	798	3,502	1,105	1,075	763	2,943	26	498	35	559
IMPERIAL	31,293	8,404	2,209	41,906	15,942	4,223	1,529	21,694	15,351	4,180	680	20,212
INYO	83	12	22	116	46	9	19	75	36	3	3	42
KERN	26,404	6,766	14,852	48,022	3,951	1,398	7,374	12,723	22,452	5,369	7,478	35,299
KINGS	10,292	3,623	2,442	16,357	605	297	1,267	2,168	9,687	3,326	1,175	14,188
LAKE	186	95	93	373	52	25	38	115	134	70	55	258
LASSEN	325	32	6	362	165	27	5	196	160	5	1	167
LOS ANGELES	8,337	4,690	7,503	20,530	7,966	4,601	7,309	19,876	371	89	194	654
MADERA	14,140	2,306	5,565	22,011	1,181	554	2,460	4,195	12,959	1,752	3,105	17,816
MARIN	230	66	84	380	223	65	81	369	7	1	3	11
MARIPOSA	2	0	0	2	2	0	0	2	0	0	0	0
MENDOCINO	1,665	1,300	1,514	4,480	1,380	1,037	1,411	3,829	285	263	103	651
MERCED	14,366	2,989	5,073	22,428	2,488	926	2,801	6,215	11,878	2,063	2,272	16,213
MODOC	1,059	672	591	2,323	962	643	591	2,196	97	30	0	126
MONO	50	17	14	82	44	8	14	66	6	10	0	16
MONTEREY	27,354	4,689	4,553	36,596	5,913	1,151	2,078	9,142	21,441	3,538	2,475	27,454
NAPA	519	235	352	1,106	304	90	127	521	215	145	225	585
NEVADA	120	89	36	245	109	58	26	193	11	31	10	52
ORANGE	2,285	731	698	3,714	1,706	219	247	2,172	579	512	451	1,542
PLACER	1,490	238	488	2,216	1,021	184	447	1,652	470	53	41	564
PLUMAS	21	6	7	34	16	6	7	29	5	0	0	5
RIVERSIDE	14,150	4,285	2,344	20,779	8,847	2,207	1,773	12,827	5,304	2,077	571	7,952
SACRAMENTO	9,580	2,928	2,181	14,689	3,333	584	673	4,590	6,246	2,344	1,508	10,099
SAN BENITO	842	275	158	1,275	222	99	67	388	620	176	91	887
SAN BERNARDINO	4,104	731	1,148	5,983	3,926	554	1,129	5,608	178	177	19	374
SAN DIEGO	3,699	1,271	1,931	6,901	3,391	1,212	1,864	6,467	308	59	67	434
SAN FRANCISCO	347	42	113	502	122	17	64	203	225	25	49	299
SAN JOAQUIN	20,262	4,843	7,274	32,378	4,628	1,338	4,164	10,130	15,634	3,505	3,110	22,249
SAN LUIS OBISPO	1,510	469	1,188	3,167	505	195	700	1,400	1,005	274	488	1,767
SAN MATEO	1,242	227	234	1,703	1,215	223	225	1,663	27	4	9	39
SANTA BARBARA	27,857	2,695	2,906	33,458	1,466	551	1,221	3,238	26,391	2,144	1,685	30,220
SANTA CLARA	2,240	719	840	3,800	1,790	565	706	3,061	450	155	134	738
SANTA CRUZ	1,249	432	339	2,020	837	372	325	1,535	411	59	14	485
SHASTA	815	377	435	1,627	703	221	391	1,315	113	156	44	313
SIERRA	19	14	25	58	19	14	25	58	0	0	0	0
SISKIYOU	2,264	1,451	1,727	5,442	2,073	1,419	1,724	5,216	191	31	3	226
SOLANO	13,115	3,450	2,312	18,877	2,913	1,089	719	4,721	10,202	2,361	1,593	14,156
SONOMA	1,661	1,730	1,424	4,815	1,202	485	627	2,315	458	1,245	797	2,500
STANISLAUS	35,235	10,223	12,317	57,774	5,252	1,916	8,333	15,501	29,983	8,307	3,984	42,274
SUTTER	19,580	1,714	3,533	24,827	6,174	1,199	2,320	9,693	13,407	515	1,213	15,135
TEHAMA	2,052	684	1,604	4,340	900	491	1,525	2,916	1,152	193	79	1,424
TRINITY	46	21	23	90	45	21	21	87	1	0	2	3
TULARE	19,619	5,857	8,651	34,127	3,162	901	4,815	8,879	16,456	4,956	3,836	25,248
TUOLUMNE	21	4	1	26	5	1	1	7	16	3	0	19
VENTURA	6,426	1,402	1,652	9,480	2,752	834	1,212	4,798	3,674	567	440	4,682
YOLO	12,143	5,254	2,637	20,035	1,621	470	884	2,976	10,522	4,784	1,753	17,059
YUBA	7,563	404	862	8,829	805	288	804	1,898	6,758	115	58	6,931
** UNKNOWN **	78,544	20,374	22,952	121,871	45,893	12,279	16,695	74,867	32,652	8,095	6,258	47,004
<b>TOTAL</b>	<b>512,558</b>	<b>128,153</b>	<b>159,857</b>	<b>800,567</b>	<b>166,577</b>	<b>52,754</b>	<b>100,940</b>	<b>320,270</b>	<b>345,981</b>	<b>75,473</b>	<b>58,997</b>	<b>480,451</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	4	9	0	30	4	0	108	65	4	273	0	0	53	0	157	0	738
ALPINE	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	154	0	0	22	0	0	2	0	0	6	0	15	0	0
BUTTE	0	27,524	0	26	6	15,643	779	20	868	261	342	10,223	0	0	4,822	0	999	4	1,320
CALAVAS	0	0	0	0	0	45	0	0	7	0	0	8	0	0	0	0	16	0	17
COLUSA	364	28,682	0	0	0	9,134	22	0	9,844	17	0	14,653	0	0	1,511	0	6,320	74	6
CONTRA COSTA	0	0	37	138	0	74	159	0	504	52	0	2,713	0	0	375	3	622	0	662
DEL NORTE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	14	0	0	0	7
EL DORADO	0	0	0	0	0	24	0	0	23	12	0	23	0	0	0	0	0	0	83
FRESNO	133	20	21	120	59	2,736	3,272	0	26,589	8,307	6,163	77,181	409	21	9,778	542	25,579	2,762	1,075
GLENN	0	19,441	1	0	0	7,064	361	0	1,166	9	0	10,645	0	0	220	0	1,780	0	44
HUMBOLDT	0	0	0	12	0	1	0	6	0	134	0	0	0	0	1	0	90	18	1,576
IMPERIAL	2,475	0	137	5,794	0	8,834	718	142	3,501	548	385	55,470	71	0	53,856	0	10,321	691	8
INYO	0	0	0	0	0	7	0	0	31	281	0	190	0	0	2	0	54	34	0
KERN	203	0	184	124	0	1,521	2,003	0	13,709	734	6	52,241	0	0	2,208	136	11,978	1,110	1,537
KINGS	2,570	41	24	0	0	943	252	0	4,143	288	278	45,431	0	0	890	55	1,770	327	104
LAKE	0	24	0	0	0	159	0	0	343	28	0	183	0	0	28	0	77	16	23
LASSEN	0	0	0	298	0	373	0	0	48	0	0	458	0	0	983	0	0	0	4
LOS ANGELES	0	75	4	10	0	298	24	0	396	148	0	367	0	0	623	176	471	8	9,258
MADERA	0	54	480	367	0	741	158	1	18,927	40	35	34,725	0	0	1,099	418	4,884	431	30
MARIN	0	0	0	0	0	56	0	0	0	0	0	0	0	0	2	0	6	0	443
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	26	498	25	1	0	69	0	0	261	121	0	121	0	0	195	0	333	167	1,012
MERCED	0	12	185	496	0	3,060	1,214	0	13,083	7,136	193	31,640	0	0	2,067	17	6,168	14	248
MODOC	0	0	0	139	0	1,351	142	0	11	0	44	1,395	0	694	1,243	0	0	9	109
MONO	0	0	0	105	0	105	0	0	0	1	0	28	0	0	74	0	6	0	12
MONTEREY	0	50	33	22,872	0	3,230	3,380	0	17,943	1,157	1,215	13,853	0	0	4,675	454	37,744	0	449
NAPA	5	0	0	0	0	2	2	0	302	133	0	103	0	0	4	0	406	20	132
NEVADA	0	0	0	0	0	6	0	0	2	2	0	5	0	0	0	0	17	4	140
ORANGE	0	0	34	129	0	360	1	0	296	233	0	488	0	0	205	1	1,318	0	2,417
PLACER	0	2,568	16	209	0	650	0	0	53	46	0	501	0	0	89	0	200	229	1,069
PLUMAS	0	0	0	2	0	16	0	0	0	0	0	0	0	0	5	0	9	0	8
RIVERSIDE	58	0	11	4,768	0	710	64	0	5,183	1,011	0	12,551	0	0	1,169	5	7,258	227	6,783
SACRAMENTO	348	1,499	11	50	0	697	18	0	1,523	1,186	262	2,871	0	0	6,447	0	6,322	0	3,540
SAN BENITO	0	0	10	15	0	9	10	0	1,044	53	0	100	0	0	144	0	1,254	2	7
SAN BERNARDINO	0	0	40	60	0	177	8	0	90	151	0	215	0	0	198	1	453	156	5,628
SAN DIEGO	0	0	738	152	0	255	25	0	556	997	18	389	0	0	401	2	2,763	2	2,387
SAN FRANCISCO	0	337	0	0	0	64	0	0	0	8	0	457	0	0	1	0	145	0	80
SAN JOAQUIN	134	0	1	130	0	3,910	821	0	11,794	1,002	0	37,750	0	202	3,584	0	8,401	0	3,672
SAN LUIS OBISPO	0	0	2	1,279	0	657	297	0	1,199	259	7	1,404	0	4	120	51	1,233	2,839	157
SAN MATEO	0	59	10	0	0	310	0	0	0	750	0	18	0	1	151	0	337	3	1,144
SANTA BARBARA	0	0	0	6,771	0	372	643	0	3,673	1,473	40	11,643	0	0	712	240	28,936	196	413
SANTA CLARA	0	0	9	5	0	76	13	0	34	376	0	410	3	0	296	1	1,905	26	1,645
SANTA CRUZ	0	0	0	11	0	355	0	16	1	256	0	136	0	2	241	18	2,584	35	298
SHASTA	0	41	11	541	0	3,114	100	0	146	9	0	173	0	0	2,939	0	90	0	101
SIERRA	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	8	0	0
SISKIYOU	0	0	0	0	0	1,571	314	0	864	0	0	580	0	108	2,146	61	418	243	498
SOLANO	1,339	376	0	245	0	2,501	26	0	1,423	378	608	7,657	0	0	1,009	1,618	9,489	72	625
SONOMA	0	197	45	417	0	181	20	12	628	701	0	53	0	0	241	0	1,705	121	676
STANISLAUS	1,217	0	3,571	53	77	9,838	1,042	0	32,572	973	0	50,343	0	0	12,570	0	17,017	223	736
SUTTER	0	35,255	0	157	0	11,702	96	0	4,186	1,218	969	10,798	117	0	2,135	0	9,690	0	253
TEHAMA	0	252	0	0	0	3,087	0	0	593	111	41	3,655	1	0	149	0	249	0	139
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	47
TULARE	594	77	8	2	0	3,231	298	0	7,831	1,568	14	31,500	0	0	3,272	152	12,831	384	265
TUOLUMNE	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	16	0	4
VENTURA	0	578	34	1,161	0	446	121	0	5,461	1,162	0	3,034	0	4	466	1	8,840	71	2,309
YOLO	226	6,530	0	0	0	4,859	87	0	9,216	698	560	17,417	0	0	1,180	0	4,419	49	420
YUBA	0	5,133	0	931	0	2,042	19	0	1,644	57	548	1,872	60	0	392	0	5,514	0	29
** UNKNOWN **	0	36	0	30	2	9,530	22	0	1,447	677	0	26,058	43	0	3,351	286	64,376	42	13,949
TOTAL	9,692	129,359	5,686	47,524	144	116,459	16,535	197	203,288	34,808	11,732	576,004	704	1,036	128,327	4,238	307,458	10,611	68,342

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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	21	1	0	15	0	0	46	0	191	0	69	3	115	78	0	293
ALPINE	0	0	5	0	0	0	0	0	0	0	11	0	0	0	0	0	0
AMADOR	0	6	0	0	0	0	0	29	0	0	33	0	0	0	32	0	0
BUTTE	0	703	4,638	0	2,937	0	0	835	2	2,009	4,522	727	253	12,989	1,808	4	1,456
CALAVERAS	0	0	2	0	0	0	0	10	0	58	2	0	0	0	12	0	10
COLUSA	108	1,846	2,065	492	2,527	0	0	1,706	34	0	131	3,032	86	2,235	3,464	73	1
CONTRA COSTA	0	0	34	18	577	0	0	308	5	159	43	17	55	47	480	0	236
DEL NORTE	0	0	2	0	0	0	0	0	0	0	6	0	0	0	0	0	3
EL DORADO	1	0	2	0	2	0	0	31	0	15	0	0	0	15	35	0	23
FRESNO	2	107	2,484	939	8,149	44	9	12,428	861	142	1,356	7,743	630	13,306	17,871	631	404
GLENN	0	1,058	2,035	0	156	0	0	1,444	0	0	174	299	122	9,556	3,524	0	1
HUMBOLDT	0	0	4	7	0	0	0	82	7	2,387	1	0	2	0	24	13	1,156
IMPERIAL	0	6	32,162	7,095	7,605	0	0	10,113	1,031	0	382	167	144	3,719	2,183	1,377	43
INYO	0	0	50	3	0	0	0	18	0	0	19	0	0	6	30	0	14
KERN	0	615	2,163	2,602	6,556	1	4	6,738	1,006	62	3,281	6,398	1,070	9,060	14,328	854	114
KINGS	1	71	1,683	2,853	8,482	0	0	1,165	521	31	902	1,044	76	2,830	1,825	662	70
LAKE	0	8	33	0	113	0	3	27	0	36	2	1	2	55	70	14	7
LASSEN	0	151	286	1	7	0	0	14	0	1	154	0	0	37	7	0	2
LOS ANGELES	0	24	163	25	46	0	8	1,731	4	4,460	8	67	62	215	339	6	7,702
MADERA	0	0	1,311	507	2,065	0	0	2,065	0	5	1,209	2,204	476	4,927	5,342	322	14
MARIN	0	0	0	0	0	0	0	3	0	235	0	0	0	2	2	0	198
MARIPOSA	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0
MENDOCINO	0	1	5	0	499	0	0	181	80	1,170	0	11	1	181	231	167	1,391
MERCED	0	0	2,384	36	5,446	0	0	3,669	10	23	3,857	2,719	241	5,552	5,204	9	70
MODOC	0	1,562	1,306	0	5	0	0	313	0	43	991	0	0	463	3	7	1
MONO	0	0	20	3	25	0	0	1	0	0	43	0	1	0	2	0	0
MONTEREY	0	0	2,413	2,780	1,460	0	5	8,942	0	176	23	783	557	4,309	9,812	0	341
NAPA	0	80	50	1	32	0	10	276	9	36	0	5	35	398	509	17	68
NEVADA	0	0	19	0	0	0	0	26	0	3	82	0	0	0	15	2	43
ORANGE	0	64	160	3	30	0	10	728	0	789	3	135	21	249	637	0	780
PLACER	0	241	179	0	0	0	0	17	0	88	193	248	0	129	53	181	446
PLUMAS	0	0	8	0	0	0	0	1	0	1	4	0	0	0	2	0	4
RIVERSIDE	0	17	4,466	2,114	4,798	0	32	4,012	105	1,838	1,274	77	342	764	1,306	169	1,193
SACRAMENTO	0	769	574	1,107	1,490	0	0	2,781	0	527	212	73	26	426	2,427	0	1,004
SAN BENITO	0	0	3	26	11	0	0	516	0	0	0	257	0	71	379	0	0
SAN BERNARDINO	0	3	104	65	2	0	7	38	72	830	68	3	49	16	44	134	1,489
SAN DIEGO	0	26	321	42	3	0	132	1,069	8	774	52	402	593	2,167	727	4	856
SAN FRANCISCO	0	0	6	0	0	0	0	42	0	59	0	257	7	1	0	0	112
SAN JOAQUIN	0	62	1,035	134	3,677	0	0	5,597	0	478	2,855	698	122	10,610	8,944	0	1,084
SAN LUIS OBISPO	0	9	53	28	171	0	11	588	34	87	52	291	1,053	858	1,178	52	94
SAN MATEO	0	0	0	2	0	0	0	536	0	87	0	0	28	83	200	0	183
SANTA BARBARA	0	7	431	416	1,743	0	63	4,684	17	91	125	878	195	1,540	4,357	18	283
SANTA CLARA	0	2	22	0	86	0	9	1,019	9	249	17	189	17	214	1,059	18	406
SANTA CRUZ	0	14	325	81	153	0	4	791	0	65	0	64	197	362	438	0	85
SHASTA	0	844	645	1	0	0	0	84	0	162	418	1	14	514	81	0	184
SIERRA	0	8	2	0	0	0	0	12	0	0	0	0	0	0	25	0	0
SISKIYOU	0	1,238	2,580	0	20	0	0	408	0	132	2,005	70	0	1,000	103	0	195
SOLANO	0	1,691	801	316	3,025	0	32	2,257	39	119	228	230	46	1,263	3,374	44	142
SONOMA	0	55	203	0	221	1	35	2,245	57	136	2	2	77	713	1,461	108	230
STANISLAUS	0	215	6,178	271	6,635	0	0	9,187	94	240	11,483	2,529	718	21,123	8,192	134	336
SUTTER	0	1,850	1,850	0	1,254	0	3	389	0	139	1,212	225	334	4,568	1,429	0	333
TEHAMA	0	40	1,036	0	285	0	0	76	0	99	258	158	99	5,619	445	0	28
TRINITY	0	0	0	0	0	0	0	0	1	24	0	0	0	0	0	2	24
TULARE	0	0	2,847	5,320	2,431	3	0	6,252	213	105	2,402	5,314	765	6,444	7,124	214	106
TUOLUMNE	0	0	0	0	8	0	0	1	0	3	0	0	0	0	1	0	2
VENTURA	79	304	507	394	480	0	115	2,285	74	97	92	2,354	6	1,596	1,989	80	199
YOLO	0	833	949	1	3,112	0	13	4,220	0	576	702	186	49	3,827	3,269	44	244
YUBA	0	237	627	0	193	0	0	168	0	0	1,122	53	128	714	218	0	0
** UNKNOWN **	0	1	1,892	36	3	0	7	20,544	22	6,879	149	0	24	11,739	16,254	41	7,377
TOTAL	191	14,789	83,144	27,719	76,535	49	517	122,749	4,753	26,067	42,094	39,735	8,735	146,627	132,984	5,415	31,066

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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	0	538	75	571	106	0	457	28	7,955
ALPINE	0	0	0	0	0	0	0	2	0	0
AMADOR	0	0	0	210	0	23	0	60	0	0
BUTTE	11	4	7,288	3,404	0	521	1	907	29	4,190
CALAVERAS	0	0	106	0	0	24	0	4	531	0
COLUSA	678	3	35,783	11,008	0	333	1,208	11,701	45	427
CONTRA COSTA	3	12	1,591	285	0	201	0	736	280	0
DEL NORTE	0	0	23	0	0	2	0	3	0	0
EL DORADO	0	0	3	29	0	22	0	85	48	0
FRESNO	98	218	389,922	9,333	10,477	8,196	8,979	73,177	2,266	73,145
GLENN	49	0	9,466	1,607	0	525	2	922	22	0
HUMBOLDT	0	2	45	5,036	0	0	0	156	1,347	33
IMPERIAL	0	37	7,297	90,801	0	1,022	4,405	3,002	5	62,748
INYO	0	10	3,860	30	0	22	1	11	0	0
KERN	142	51	447,612	21,296	7,768	112,570	10,134	56,226	918	0
KINGS	30	6	87,419	18,797	7,548	8,675	112,605	97,958	2	2,522
LAKE	0	0	730	2	0	24	0	86	1	375
LASSEN	0	5	1,145	340	0	253	0	89	0	0
LOS ANGELES	0	78	507	56	7,034	480	548	7,370	495	15,625
MADERA	12	7	13,411	2,253	23,713	1,671	507	10,082	414	3,489
MARIN	0	0	3	0	0	0	0	34	2	0
MARIPOSA	0	2,960	0	0	2,372	16	0	0	1	0
MENDOCINO	0	0	996	21	0	38	0	123	100	0
MERCED	29	4	46,624	12,563	3,030	6,323	906	14,488	15	37,104
MODOC	1	0	2,789	323	0	880	30	191	0	1,736
MONO	0	0	147	27	0	18	2	4	0	0
MONTEREY	23	75	18,834	45,214	0	611	196	9,462	176	90,364
NAPA	0	1	1,658	411	0	5	0	75	1,087	17,890
NEVADA	0	0	0	0	0	18	0	43	39	135
ORANGE	0	29	226	77	17	12	26	2,989	240	0
PLACER	0	1	704	960	171	7	0	196	130	0
PLUMAS	0	0	79	0	0	26	0	16	0	0
RIVERSIDE	1	2,991	2,871	108	18,214	521	26	6,715	1,083	38,205
SACRAMENTO	0	96	679	589	3,575	1,446	0	12,109	2,993	56
SAN BENITO	0	0	5,168	356	0	29	27	228	1	1,909
SAN BERNARDINO	0	21	184	57	19,078	55	0	1,051	1,171	23,901
SAN DIEGO	15	254	1,610	220	0	101	0	3,153	2,796	9,009
SAN FRANCISCO	0	0	9	2	0	0	0	115	4	0
SAN JOAQUIN	3	636	98,628	31,706	0	21,248	639	11,648	256	0
SAN LUIS OBISPO	7	13	2,150	1,272	0	174	12	3,777	223	32
SAN MATEO	0	66	49	328	0	2	0	566	146	538
SANTA BARBARA	70	39	9,463	11,245	0	1,193	1,108	13,212	54	0
SANTA CLARA	0	4	2,652	1,323	286	30	18	540	116	4,749
SANTA CRUZ	0	6	4,546	1,474	0	240	28	3,089	154	4,170
SHASTA	37	1	4,146	14,748	0	224	17	139	7	182
SIERRA	0	0	24	0	0	0	0	1	0	0
SISKIYOU	0	0	3,998	175	0	2,672	316	365	2	1,795
SOLANO	2	1	8,665	991	87,507	154	110	510	224	9,990
SONOMA	5	52	4,233	1,119	0	62	0	541	1,452	3,857
STANISLAUS	433	1,050	102,805	40,591	686	19,701	1,284	70,368	6,652	46,815
SUTTER	40	2	8,077	534	0	559	0	1,166	5	26
TEHAMA	0	31	4,626	2,461	0	335	6	259	0	566
TRINITY	0	0	0	0	0	0	0	1,902	1	0
TULARE	112	501	134,621	8,462	73	13,972	17,859	32,400	1,305	20,891
TUOLUMNE	0	0	2	1,259	0	0	0	0	1	1,408
VENTURA	1	56	3,100	198	368	479	2,254	8,983	122	5,575
YOLO	6	2	15,331	4,452	3,229	927	1,477	20,443	63	31,899
YUBA	1	0	1,646	420	0	280	0	103	83	2
** UNKNOWN **	0	24	98,105	2,907	0	1,164	654	22,349	1,435	0
<b>TOTAL</b>	<b>1,809</b>	<b>9,349</b>	<b>1,596,194</b>	<b>351,155</b>	<b>195,717</b>	<b>208,192</b>	<b>165,385</b>	<b>506,387</b>	<b>28,570</b>	<b>523,313</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	1,205	8,788	764	10,757	307	693	176	1,176	1,038	172	1,210	11,967
ALPINE	0	45	0	45	0	2	0	2	0	0	0	45
AMADOR	12	483	97	592	2	266	25	293	2	0	2	594
BUTTE	8,497	53,632	45,132	107,261	491	11,188	457	12,136	732	4,082	4,814	112,075
CALAVERAS	109	51	78	238	106	1	27	134	564	52	616	854
COLUSA	7,947	70,535	71,081	149,563	5,094	49,308	6,312	60,714	52	0	52	149,615
CONTRA COSTA	1,218	2,436	5,435	9,089	392	2,107	329	2,828	1,141	196	1,337	10,426
DEL NORTE	2	55	0	57	2	26	0	28	6	11	17	74
EL DORADO	162	70	98	330	79	36	24	139	114	54	168	498
FRESNO	56,183	532,175	215,445	803,803	14,765	427,525	47,637	489,927	3,599	282	3,881	807,684
GLENN	4,494	32,288	34,844	71,626	645	11,219	707	12,571	66	1	67	71,693
HUMBOLDT	236	5,404	331	5,971	126	5,098	312	5,536	5,225	944	6,169	12,140
IMPERIAL	31,640	245,302	101,317	378,259	2,003	96,190	8,371	106,564	12	44	56	378,315
INYO	443	3,985	227	4,655	70	3,863	1	3,934	12	0	12	4,667
KERN	29,631	633,942	133,064	796,637	10,780	609,697	27,554	648,031	2,556	50	2,606	799,243
KINGS	98,088	130,847	185,752	414,687	89,090	120,331	116,069	325,490	190	17	207	414,894
LAKE	208	1,319	904	2,431	71	720	51	842	24	43	67	2,498
LASSEN	59	2,350	2,277	4,686	23	385	1,424	1,832	7	0	7	4,693
LOS ANGELES	5,957	11,405	19,636	36,998	2,407	3,755	2,877	9,039	21,062	851	21,913	58,911
MADERA	18,975	45,076	74,369	138,420	1,763	21,186	5,183	28,132	231	43	274	138,694
MARIN	40	59	9	108	35	1	1	37	813	65	878	986
MARIPOSA	21	5,331	5	5,357	21	2,955	0	2,976	3	0	3	5,360
MENDOCINO	1,266	1,411	1,675	4,352	264	866	48	1,178	3,493	180	3,673	8,025
MERCED	9,694	131,529	74,260	215,483	1,538	68,283	11,116	80,937	326	30	356	215,839
MODOC	34	10,726	4,873	15,633	3	1,331	2,880	4,214	153	0	153	15,786
MONO	7	440	60	507	0	196	2	198	1	0	1	508
MONTEREY	13,950	185,732	102,834	302,516	1,554	71,242	1,629	74,425	995	100	1,095	303,611
NAPA	956	20,243	1,240	22,439	202	1,923	25	2,150	1,309	14	1,323	23,762
NEVADA	43	207	50	300	0	39	25	64	248	53	301	601
ORANGE	4,060	1,845	2,680	8,585	2,164	916	323	3,403	2,737	1,445	4,182	12,767
PLACER	519	3,570	3,687	7,776	108	1,741	19	1,868	1,585	213	1,798	9,574
PLUMAS	18	143	7	168	1	120	0	121	13	0	13	181
RIVERSIDE	21,231	60,136	40,797	122,164	2,946	4,941	5,346	13,233	9,949	927	10,876	133,040
SACRAMENTO	10,592	18,706	19,333	48,631	1,604	12,006	1,414	15,024	5,660	2,295	7,955	56,586
SAN BENITO	3,510	5,160	2,851	11,521	3,048	2,610	150	5,808	7	1	8	11,529
SAN BERNARDINO	16,830	29,092	648	46,570	787	563	18	1,368	8,594	455	9,049	55,619
SAN DIEGO	13,428	10,801	1,965	26,194	3,761	1,267	289	5,317	6,690	135	6,825	33,019
SAN FRANCISCO	339	140	1,008	1,487	36	1	89	126	126	129	255	1,742
SAN JOAQUIN	9,382	171,820	84,778	265,980	2,604	148,187	13,726	164,517	5,386	95	5,481	271,461
SAN LUIS OBISPO	3,673	8,113	9,382	21,168	471	4,509	2,425	7,405	506	53	559	21,727
SAN MATEO	2,967	949	121	4,037	877	103	31	1,011	1,510	50	1,560	5,597
SANTA BARBARA	7,391	33,676	64,436	105,503	518	31,291	4,521	36,330	814	27	841	106,344
SANTA CLARA	3,358	10,619	1,530	15,507	859	3,609	99	4,567	2,331	85	2,416	17,923
SANTA CRUZ	3,977	13,388	2,272	19,637	1,160	8,074	149	9,383	572	30	602	20,239
SHASTA	714	22,202	6,344	29,260	205	14,001	5,106	19,312	275	179	454	29,714
SIERRA	50	55	25	130	0	0	25	25	0	0	0	130
SISKIYOU	1,852	18,250	2,552	22,654	363	6,726	437	7,526	808	20	828	23,482
SOLANO	32,078	29,849	86,127	148,054	889	9,188	356	10,433	752	321	1,073	149,127
SONOMA	6,114	9,089	4,167	19,370	1,296	4,583	133	6,012	2,104	390	2,494	21,864
STANISLAUS	25,994	257,724	197,723	481,441	6,024	154,465	77,192	237,681	6,049	462	6,511	487,952
SUTTER	5,046	35,390	59,415	99,851	768	8,791	819	10,378	709	21	730	100,581
TEHAMA	589	18,468	5,381	24,438	36	7,611	71	7,718	172	94	266	24,704
TRINITY	0	1,739	170	1,909	0	1,734	168	1,902	86	10	96	2,005
TULARE	21,106	201,801	107,168	330,075	8,638	162,524	36,858	208,020	1,402	286	1,688	331,763
TUOLUMNE	714	1,959	27	2,700	710	551	0	1,261	3	7	10	2,710
VENTURA	10,940	18,582	23,226	52,748	1,867	7,645	5,559	15,071	2,624	103	2,727	55,475
YOLO	4,862	82,443	52,930	140,235	1,469	38,672	2,497	42,638	1,025	278	1,303	141,538
YUBA	1,561	6,870	15,766	24,197	980	1,489	64	2,533	9	20	29	24,226
** UNKNOWN **	25,169	184,115	75,629	284,913	940	116,219	8,044	125,203	26,361	2,181	28,542	313,455
<b>TOTAL</b>	<b>529,141</b>	<b>3,392,560</b>	<b>1,948,002</b>	<b>5,869,703</b>	<b>176,962</b>	<b>2,264,569</b>	<b>399,190</b>	<b>2,840,721</b>	<b>132,833</b>	<b>17,596</b>	<b>150,429</b>	<b>6,020,132</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**JULY 2020-JUNE 2021**  
**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	1,085	218	451	1,754	799	145	350	1,294	286	73	101	460
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	57	30	52	139	46	11	30	87	11	19	22	52
BUTTE	17,939	6,397	12,747	37,083	6,837	3,435	10,573	20,845	11,102	2,962	2,174	16,238
CALAVERAS	48	69	23	141	28	9	12	49	21	60	11	92
COLUSA	22,222	4,358	5,439	32,019	5,450	1,894	2,713	10,057	16,773	2,464	2,726	21,963
CONTRA COSTA	2,563	619	713	3,895	1,033	259	438	1,730	1,530	434	355	2,319
DEL NORTE	15	8	7	30	11	2	6	19	4	6	1	11
EL DORADO	124	48	66	237	108	32	50	189	15	17	16	48
FRESNO	69,051	18,186	28,428	115,665	16,321	3,814	15,315	35,450	52,730	14,372	13,114	80,215
GLENN	11,372	2,767	8,527	22,666	2,886	2,265	7,618	12,768	8,487	502	909	9,898
HUMBOLDT	1,709	2,482	1,194	5,385	1,663	1,655	1,133	4,452	45	827	61	933
IMPERIAL	63,856	34,297	5,792	103,944	36,479	23,836	4,719	65,034	27,376	10,461	1,073	38,911
INYO	211	65	52	327	142	61	48	251	69	4	4	76
KERN	37,245	12,791	23,711	73,747	6,448	3,419	12,039	21,906	30,797	9,372	11,672	51,841
KINGS	21,807	7,169	4,846	33,822	1,711	984	3,255	5,949	20,096	6,186	1,591	27,873
LAKE	314	129	121	564	116	39	52	208	198	89	69	356
LASSEN	842	197	120	1,159	596	190	118	904	246	7	2	255
LOS ANGELES	10,385	6,317	8,201	24,903	9,719	6,163	7,850	23,733	666	154	351	1,171
MADERA	21,866	4,275	9,687	35,827	3,025	1,678	4,958	9,661	18,841	2,597	4,728	26,166
MARIN	462	238	201	901	452	183	194	829	10	55	7	72
MARIPOSA	5	1	2	8	3	1	2	6	2	0	0	2
MENDOCINO	1,898	1,603	1,882	5,384	1,566	1,319	1,689	4,574	332	285	193	810
MERCED	22,744	6,844	11,092	40,679	5,577	2,372	7,336	15,285	17,167	4,472	3,756	25,394
MODOC	2,123	1,354	837	4,314	1,595	1,238	834	3,666	528	117	3	648
MONO	77	22	28	127	64	11	28	103	13	10	0	24
MONTEREY	54,600	12,373	12,739	79,712	15,506	4,793	7,101	27,401	39,094	7,580	5,638	52,311
NAPA	695	379	810	1,884	409	178	411	998	286	201	399	886
NEVADA	167	121	60	347	150	84	44	278	17	37	16	70
ORANGE	4,245	1,629	1,582	7,457	2,939	686	760	4,385	1,307	944	822	3,072
PLACER	2,481	442	895	3,819	1,606	330	818	2,754	875	112	77	1,064
PLUMAS	24	6	8	39	19	6	8	33	5	0	0	5
RIVERSIDE	22,828	11,331	4,113	38,272	13,256	6,013	3,292	22,561	9,573	5,318	821	15,712
SACRAMENTO	15,172	4,905	3,820	23,897	7,200	1,187	1,368	9,755	7,972	3,717	2,452	14,142
SAN BENITO	1,512	535	471	2,518	365	214	213	791	1,147	322	258	1,727
SAN BERNARDINO	7,463	1,349	1,896	10,708	7,129	1,137	1,841	10,106	335	212	55	601
SAN DIEGO	6,171	2,108	3,051	11,330	5,525	2,001	2,930	10,456	647	106	121	874
SAN FRANCISCO	455	104	208	768	154	37	111	302	302	67	97	466
SAN JOAQUIN	29,594	7,948	17,253	54,795	7,944	2,554	11,589	22,087	21,650	5,394	5,664	32,709
SAN LUIS OBISPO	5,592	817	2,312	8,720	3,664	334	1,225	5,224	1,927	482	1,086	3,496
SAN MATEO	1,756	624	437	2,817	1,710	615	415	2,740	47	9	22	78
SANTA BARBARA	36,262	5,864	5,782	47,908	2,739	1,198	2,437	6,374	33,524	4,665	3,345	41,534
SANTA CLARA	4,048	1,328	1,652	7,029	3,338	1,108	1,466	5,912	710	220	186	1,116
SANTA CRUZ	3,274	1,125	805	5,204	1,726	846	727	3,298	1,548	280	78	1,906
SHASTA	2,619	751	779	4,148	2,361	560	723	3,644	258	191	56	505
SIERRA	20	15	25	60	20	15	25	60	0	0	0	0
SISKIYOU	3,383	2,136	2,016	7,536	2,872	2,019	2,010	6,901	511	117	6	635
SOLANO	18,015	4,952	4,684	27,650	5,602	2,262	2,887	10,751	12,413	2,689	1,797	16,899
SONOMA	3,086	2,646	2,191	7,923	2,413	1,236	1,138	4,787	673	1,410	1,053	3,136
STANISLAUS	51,499	15,193	26,992	93,685	13,125	4,615	21,558	39,298	38,375	10,578	5,434	54,387
SUTTER	25,789	2,291	4,970	33,050	9,645	1,681	3,707	15,033	16,144	610	1,263	18,017
TEHAMA	2,617	819	3,516	6,951	1,042	573	3,337	4,952	1,574	246	179	1,999
TRINITY	51	25	26	102	47	22	21	90	4	3	5	12
TULARE	28,552	11,751	13,614	53,918	4,965	2,909	7,945	15,819	23,587	8,843	5,669	38,099
TUOLUMNE	22	7	3	32	5	1	1	7	17	6	2	25
VENTURA	14,162	3,251	3,644	21,057	7,337	2,003	2,535	11,875	6,825	1,248	1,109	9,182
YOLO	15,910	6,544	5,954	28,408	3,288	1,211	3,484	7,983	12,623	5,333	2,470	20,426
YUBA	8,560	604	1,316	10,480	1,109	465	1,211	2,786	7,451	138	105	7,694
** UNKNOWN **	91,528	28,452	29,641	149,622	58,381	20,143	23,102	101,626	33,148	8,309	6,540	47,996
<b>TOTAL</b>	<b>767,656</b>	<b>243,048</b>	<b>279,206</b>	<b>1,289,910</b>	<b>285,744</b>	<b>118,191</b>	<b>189,524</b>	<b>593,459</b>	<b>481,912</b>	<b>124,931</b>	<b>89,762</b>	<b>696,605</b>



# FERTILIZING MATERIALS TONNAGE REPORT

JULY – DECEMBER 2021



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	JAN-JUNE 2020	JAN-JUNE 2021	JULY-DEC 2020	JULY-DEC 2021	JAN-DEC 2020	JAN-DEC 2021
2	ANHYDROUS AMMONIA	5,980	5,272	4,420	3,319	10,400	8,591
6	AQUA AMMONIA	139,058	111,289	18,070	10,260	157,128	121,549
10	AMMONIUM NITRATE	1,938	682	5,004	1,771	6,942	2,453
12	AMMONIUM NITRATE SOLUTION	21,932	21,993	25,531	16,637	47,463	38,630
20	AMMONIUM POLYSULFIDE	2,680	65	79	1,679	2,759	1,744
24	AMMONIUM SULFATE	69,179	69,855	46,604	31,863	115,783	101,718
31	AMMONIUM THIOSULFATE	37,697	3,934	12,601	4,040	50,298	7,974
35	CALCIUM AMMONIUM NITRATE SOLUTION	132,568	146,366	56,922	69,385	189,490	215,751
43	CALCIUM NITRATE	16,445	21,884	12,924	15,483	29,369	37,367
58	NITROGEN SOLUTION 28%	2,044	3,965	7,767	1,199	9,811	5,164
60	NITROGEN SOLUTION 32%	403,806	387,766	188,238	218,369	592,044	606,135
62	SODIUM NITRATE	143	486	218	465	361	951
64	SULFUR COATED UREA	489	460	576	712	1,065	1,172
66	UREA	95,612	52,701	75,628	42,903	171,240	95,604
67	UREA SOLUTION	2,118	2,701	1,537	782	3,655	3,483
0	NON-FARM USE NITROGEN	26,908	39,096	29,246	23,472	56,154	62,568
98	NITROGEN MATERIALS - COMPOST	7,060	2,622	7,989	5,092	15,049	7,714
203	DIAMMONIUM PHOSPHATE	2,955	189	2	67	2,957	256
207	AMMONIUM PHOSPHATE SULFATE	14,403	10,023	4,766	2,412	19,169	12,435
209	MONOAMMONIUM PHOSPHATE	23,909	25,033	58,111	27,985	82,020	53,018
248	PHOSPHORIC ACID	10,312	9,838	17,881	4,029	28,193	13,867
249	LIQUID AMMONIUM POLYPHOSPHATE	35,191	31,545	44,990	13,346	80,181	44,891
263	NORMAL SUPERPHOSPHATE	0	49	2	2	2	51
267	TRIPLE SUPERPHOSPHATE	253	270	247	179	500	449
0	NON-FARM USE PHOSPHORUS	20,519	14,247	11,820	8,788	32,339	23,035
298	PHOSPHORUS MATERIALS - COMPOST	2,312	1,947	2,806	3,066	5,118	5,013
428	MURIATE OF POTASH	36,923	20,058	22,038	14,932	58,961	34,990
443	SULFATE OF POTASH MAGNESIA	17,787	20,653	19,082	17,202	36,869	37,855
453	POTASSIUM NITRATE	4,592	5,277	3,458	3,201	8,050	8,478
463	POTASSIUM SULFATE	69,939	65,675	80,952	93,645	150,891	159,320
0	NON-FARM USE POTASH	11,917	19,151	11,915	5,289	23,832	24,440
498	POTASSIUM MATERIALS - COMPOST	1,729	1,667	3,748	3,117	5,477	4,784
601	BLOOD MEAL	119	31	166	3	285	34
667	SEWAGE SLUDGE	107,253	100,910	94,807	126,202	202,060	227,112
723	COPPER - ALL MATERIALS	3,306	1,367	442	321	3,748	1,688
731	IRON - ALL MATERIALS	1,245	5,380	3,969	392	5,214	5,772
732	GYPSUM - ALL MATERIALS	820,461	527,583	1,048,540	785,471	1,869,001	1,313,054
770	SULFUR	66,376	107,621	100,571	48,093	166,947	155,714
774	SULFURIC ACID	72,608	89,190	76,195	48,443	148,803	137,633
797	SECONDARY/MICRONUTRIENTS - ALL OTHER	266,496	292,516	213,871	15,651	480,367	308,167
907	LIMING MATERIALS - ALL MATERIALS	108,988	112,128	239,027	96,168	348,015	208,296
0	NON-FARM USE SECONDARY/MICRONUTRIENTS	18,829	14,684	13,886	129,836	32,715	144,520
613	OIM BULK COMPOST - NO NUTRIENTS	209,056	156,068	367,247	241,758	576,303	397,826
0	TOTAL	2,893,123	2,504,237	2,933,893	2,137,029	5,827,016	4,641,266

**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
		2020 N	2020 P2O5	2020 K2O	2021 N	2021 P2O5	2021 K2O
0	NON-FARM USE NITROGEN	26,908	0	0	39,096	0	0
0	NON-FARM USE PHOSPHORUS	0	20,519	0	0	14,247	0
0	NON-FARM USE POTASH	0	0	11,917	0	0	19,151
2	ANHYDROUS AMMONIA	4,904	0	0	4,323	0	0
6	AQUA AMMONIA	27,812	0	0	22,258	0	0
10	AMMONIUM NITRATE	659	0	0	232	0	0
12	AMMONIUM NITRATE SOLUTION	4,386	0	0	4,399	0	0
20	AMMONIUM POLYSULFIDE	536	0	0	13	0	0
24	AMMONIUM SULFATE	14,528	0	0	14,670	0	0
31	AMMONIUM THIOSULFATE	4,524	0	0	472	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	22,537	0	0	24,882	0	0
43	CALCIUM NITRATE	2,467	0	0	3,283	0	0
58	NITROGEN SOLUTION 28%	572	0	0	1,110	0	0
60	NITROGEN SOLUTION 32%	129,218	0	0	124,085	0	0
62	SODIUM NITRATE	23	0	0	78	0	0
64	SULFUR COATED UREA	176	0	0	166	0	0
66	UREA	43,982	0	0	24,242	0	0
67	UREA SOLUTION	424	0	0	540	0	0
97	NITROGEN MATERIALS - ALL OTHER	147,393	0	0	237,799	0	0
98	NITROGEN MATERIALS - COMPOST	7,060	0	0	2,622	0	0
203	DIAMMONIUM PHOSPHATE	532	1,359	0	34	87	0
207	AMMONIUM PHOSPHATE SULFATE	2,304	2,881	0	1,604	2,005	0
209	MONOAMMONIUM PHOSPHATE	2,630	12,433	0	2,754	13,017	0
248	PHOSPHORIC ACID	0	5,568	0	0	5,313	0
249	LIQUID AMMONIUM POLYPHOSPHATE	3,519	11,965	0	3,155	10,725	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	11	0
267	TRIPLE SUPERPHOSPHATE	0	116	0	0	124	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	75,790	0	0	80,751	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,312	0	0	1,947	0
428	MURIATE OF POTASH	0	0	22,154	0	0	12,035
443	SULFATE OF POTASH MAGNESIA	0	0	3,913	0	0	4,544
453	POTASSIUM NITRATE	643	0	2,020	739	0	2,322
463	POTASSIUM SULFATE	0	0	34,970	0	0	32,838
497	POTASSIUM MATERIALS - ALL OTHER	0	0	104,132	0	0	87,381
498	POTASSIUM MATERIALS - COMPOST	0	0	1,729	0	0	1,667
601	BLOOD MEAL	14	0	0	4	0	0
667	SEWAGE SLUDGE	6,435	2,145	1,073	6,055	2,018	1,009
0	TOTAL	454,184	135,088	181,908	518,612	130,245	160,946

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
		2020 N	2020 P2O5	2020 K2O	2021 N	2021 P2O5	2021 K2O
0	NON-FARM USE NITROGEN	29,246	0	0	23,217	0	0
0	NON-FARM USE PHOSPHORUS	0	11,820	0	0	8,778	0
0	NON-FARM USE POTASH	0	0	11,915	0	0	5,151
2	ANHYDROUS AMMONIA	3,624	0	0	2,722	0	0
6	AQUA AMMONIA	3,614	0	0	2,052	0	0
10	AMMONIUM NITRATE	1,701	0	0	602	0	0
12	AMMONIUM NITRATE SOLUTION	5,106	0	0	3,327	0	0
20	AMMONIUM POLYSULFIDE	16	0	0	336	0	0
24	AMMONIUM SULFATE	9,787	0	0	6,691	0	0
31	AMMONIUM THIOSULFATE	1,512	0	0	485	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	9,677	0	0	11,795	0	0
43	CALCIUM NITRATE	1,939	0	0	2,322	0	0
58	NITROGEN SOLUTION 28%	2,175	0	0	336	0	0
60	NITROGEN SOLUTION 32%	60,236	0	0	69,878	0	0
62	SODIUM NITRATE	35	0	0	74	0	0
64	SULFUR COATED UREA	207	0	0	256	0	0
66	UREA	34,789	0	0	19,735	0	0
67	UREA SOLUTION	307	0	0	156	0	0
97	NITROGEN MATERIALS - ALL OTHER	69,659	0	0	106,558	0	0
98	NITROGEN MATERIALS - COMPOST	7,989	0	0	5,092	0	0
203	DIAMMONIUM PHOSPHATE	0	1	0	12	31	0
207	AMMONIUM PHOSPHATE SULFATE	763	1,049	0	386	482	0
209	MONOAMMONIUM PHOSPHATE	6,392	30,218	0	3,078	14,552	0
248	PHOSPHORIC ACID	0	9,656	0	0	2,176	0
249	LIQUID AMMONIUM POLYPHOSPHATE	4,499	15,297	0	1,335	4,538	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	0	0
267	TRIPLE SUPERPHOSPHATE	0	114	0	0	82	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	41,998	0	0	46,913	0
298	PHOSPHORUS MATERIALS - COMPOST	0	2,806	0	0	3,066	0
428	MURIATE OF POTASH	0	0	13,223	0	0	8,959
443	SULFATE OF POTASH MAGNESIA	0	0	4,198	0	0	3,784
453	POTASSIUM NITRATE	484	0	1,522	448	0	1,408
463	POTASSIUM SULFATE	0	0	40,476	0	0	46,823
497	POTASSIUM MATERIALS - ALL OTHER	0	0	45,603	0	0	89,055
498	POTASSIUM MATERIALS - COMPOST	0	0	3,748	0	0	3,117
601	BLOOD MEAL	20	0	0	0	0	0
667	SEWAGE SLUDGE	5,688	1,896	948	7,572	2,524	1,262
0	TOTAL	259,466	114,854	121,632	268,468	83,143	159,560

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 2020 N	JAN-DEC 2020 P2O5	JAN-DEC 2020 K2O	JAN-DEC 2021 N	JAN-DEC 2021 P2O5	JAN-DEC 2021 K2O
0	NON-FARM USE NITROGEN	56,154	0	0	62,313	0	0
0	NON-FARM USE PHOSPHORUS	0	32,339	0	0	23,025	0
0	NON-FARM USE POTASH	0	0	23,832	0	0	24,302
2	ANHYDROUS AMMONIA	8,528	0	0	7,045	0	0
6	AQUA AMMONIA	31,426	0	0	24,310	0	0
10	AMMONIUM NITRATE	2,360	0	0	834	0	0
12	AMMONIUM NITRATE SOLUTION	9,493	0	0	7,726	0	0
20	AMMONIUM POLYSULFIDE	552	0	0	349	0	0
24	AMMONIUM SULFATE	24,314	0	0	21,361	0	0
31	AMMONIUM THIOSULFATE	6,036	0	0	957	0	0
35	CALCIUM AMMONIUM NITRATE SOLUTION	32,213	0	0	36,678	0	0
43	CALCIUM NITRATE	4,405	0	0	5,605	0	0
58	NITROGEN SOLUTION 28%	2,747	0	0	1,446	0	0
60	NITROGEN SOLUTION 32%	189,454	0	0	193,963	0	0
62	SODIUM NITRATE	58	0	0	152	0	0
64	SULFUR COATED UREA	383	0	0	422	0	0
66	UREA	78,770	0	0	43,978	0	0
67	UREA SOLUTION	731	0	0	697	0	0
97	NITROGEN MATERIALS - ALL OTHER	217,052	0	0	344,357	0	0
98	NITROGEN MATERIALS - COMPOST	15,049	0	0	7,714	0	0
203	DIAMMONIUM PHOSPHATE	532	1,360	0	46	118	0
207	AMMONIUM PHOSPHATE SULFATE	3,067	3,929	0	1,990	2,487	0
209	MONOAMMONIUM PHOSPHATE	9,022	42,650	0	5,832	27,569	0
248	PHOSPHORIC ACID	0	15,224	0	0	7,488	0
249	LIQUID AMMONIUM POLYPHOSPHATE	8,018	27,262	0	4,489	15,263	0
263	NORMAL SUPERPHOSPHATE	0	0	0	0	11	0
267	TRIPLE SUPERPHOSPHATE	0	230	0	0	207	0
297	PHOSPHORUS MATERIALS - ALL OTHER	0	117,788	0	0	127,664	0
298	PHOSPHORUS MATERIALS - COMPOST	0	5,118	0	0	5,013	0
428	MURIATE OF POTASH	0	0	35,377	0	0	20,994
443	SULFATE OF POTASH MAGNESIA	0	0	8,111	0	0	8,328
453	POTASSIUM NITRATE	1,127	0	3,542	1,187	0	3,730
463	POTASSIUM SULFATE	0	0	75,446	0	0	79,660
497	POTASSIUM MATERIALS - ALL OTHER	0	0	149,735	0	0	176,436
498	POTASSIUM MATERIALS - COMPOST	0	0	5,477	0	0	4,784
601	BLOOD MEAL	34	0	0	4	0	0
667	SEWAGE SLUDGE	12,123	4,041	2,021	13,627	4,542	2,271
0	TOTAL	713,650	249,942	303,540	787,080	213,387	320,505

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
 TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST  
 JULY-DECEMBER 2021  
 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	3	0	1	0	0	2	37	0	18	0	0	14	0	31	0	313
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	5	0	0
BUTTE	0	645	0	3	0	2,258	22	0	695	89	7	2,375	0	168	0	656	0	53	
CALAVERAS	0	0	0	0	0	17	0	0	18	1	0	4	0	0	0	2	0	4	
COLUSA	288	3,860	0	0	0	4,112	3	0	1,107	528	0	6,089	0	665	0	3,963	17	2	
CONTRA COSTA	0	78	9	19	0	105	1	0	147	26	0	453	0	71	0	149	0	436	
DEL NORTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
EL DORADO	0	0	0	0	0	1	0	0	0	2	0	15	0	0	0	11	0	26	
FRESNO	40	1	13	0	3	3,751	2,442	0	6,706	514	155	21,772	0	250	2,023	63	6,595	1,024	493
GLENN	0	1,309	0	0	0	1,364	3	0	74	8	0	1,530	0	76	0	166	0	11	
HUMBOLDT	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	123	2	568	
IMPERIAL	1,152	0	1,445	1,712	1,527	4,167	10	0	1,944	5	19	26,927	24	27,713	0	4,504	588	4	
INYO	0	0	0	0	0	0	0	0	2	253	0	0	0	0	0	20	0	0	
KERN	72	0	0	342	0	777	35	0	1,210	288	1	28,477	0	703	0	3,070	583	3,924	
KINGS	552	4	0	0	0	25	29	0	712	552	135	9,278	0	113	9	790	313	4	
LAKE	0	0	0	0	0	116	0	0	103	3	0	73	0	25	0	59	13	5	
LASSEN	0	0	0	0	0	67	0	0	38	0	0	54	0	606	0	42	0	1	
LOS ANGELES	0	0	0	13	0	86	0	0	3	151	0	30	0	196	1	58	0	1,189	
MADERA	0	28	0	0	0	79	29	0	2,339	2,171	2	7,874	0	139	64	831	236	19	
MARIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MENDOCINO	0	27	0	0	0	24	0	0	53	106	0	24	0	7	0	242	84	476	
MERCED	0	26	0	5	0	1,003	16	0	2,432	218	29	5,974	0	133	60	1,611	149	65	
MODOC	0	0	0	0	0	278	61	0	0	7	0	284	0	177	334	130	0	0	
MONO	0	0	0	0	0	13	0	0	0	0	0	0	0	3	0	1	0	0	
MONTEREY	0	719	2	8,176	0	826	844	0	6,543	544	173	24,075	0	557	94	9,747	0	334	
NAPA	6	0	0	0	0	2	0	0	83	68	0	5	0	0	0	165	23	32	
NEVADA	0	0	0	0	0	6	0	0	0	2	0	1	0	1	0	4	1	27	
ORANGE	0	0	2	26	96	12	0	0	192	237	0	131	0	309	3	680	0	696	
PLACER	0	0	0	0	0	108	0	0	5	19	0	11	0	15	0	82	65	278	
PLUMAS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	8	
RIVERSIDE	60	0	0	2,931	0	305	10	0	2,271	655	1	4,041	0	670	1	1,760	278	1,702	
SACRAMENTO	86	48	0	0	0	198	3	0	437	359	0	1,208	0	301	0	1,808	2	1,280	
SAN BENITO	0	0	0	50	0	0	0	0	1,806	855	0	54	0	27	0	501	0	0	
SAN BERNARDINO	0	75	0	0	0	18	0	0	1	30	0	33	106	37	1	290	17	1,614	
SAN DIEGO	0	0	276	84	0	53	0	0	214	523	1	79	0	286	108	2,363	0	1,019	
SAN FRANCISCO	0	0	0	0	0	8	0	0	0	8	0	11	0	0	0	0	0	34	
SAN JOAQUIN	5	0	0	9	0	635	41	0	2,334	239	274	9,535	0	527	0	2,765	0	777	
SAN LUIS OBISPO	0	26	7	732	0	559	0	0	329	343	6	508	0	143	0	735	49	32	
SAN MATEO	0	0	2	0	0	9	0	0	0	140	0	1	0	32	0	278	0	335	
SANTA BARBARA	0	0	0	1,759	0	178	14	0	1,863	568	5	5,400	23	180	48	5,993	68	167	
SANTA CLARA	0	0	0	11	0	25	0	0	246	53	0	7	0	73	0	563	15	394	
SANTA CRUZ	0	0	0	4	0	44	0	0	464	268	0	154	0	69	0	2,625	0	163	
SHASTA	0	0	8	26	0	401	7	0	14	22	5	17	0	452	0	119	0	35	
SIERRA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21	0	1	
SISKIYOU	0	0	0	0	0	709	167	0	293	0	9	254	0	8	197	154	870	1,175	
SOLANO	276	71	0	0	0	774	0	0	241	366	0	1,145	0	88	0	734	31	155	
SONOMA	0	96	7	130	0	1	6	3	110	261	0	6	0	8	0	538	54	192	
STANISLAUS	692	40	0	3	53	1,627	85	0	9,774	216	2	14,102	0	1,947	0	2,227	148	306	
SUTTER	0	1,429	0	0	0	3,043	3	0	714	162	40	2,286	22	0	182	0	830	0	5
TEHAMA	0	73	0	0	0	155	13	0	135	1	1	843	0	47	0	248	0	50	
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	
TULARE	0	0	0	0	0	638	160	0	1,650	531	7	11,561	281	275	619	12	2,655	300	119
TUOLUMNE	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	0	0	589	0	60	0	0	3,545	248	1	1,371	0	2	498	1	3,595	108	1,357
YOLO	90	1,673	0	10	0	788	2	0	1,169	10	52	3,144	0	471	0	1,560	17	98	
YUBA	0	32	0	0	0	535	0	0	125	4	49	294	9	41	0	132	7	92	
** UNKNOWN **	0	0	0	0	0	2,392	34	0	17,189	3,724	225	26,841	0	2,137	317	40,323	30	2,930	
TOTAL	3,319	10,260	1,771	16,637	1,679	31,863	4,040	3	69,385	15,483	1,199	218,369	465	712	42,903	782	106,558	5,092	23,217

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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	5	0	0	4	0	0	25	0	91	0	86	3	22	40	0	85
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	0	0	0	0	0	0	0	9	0	0	0	0	0	0	16	0	0
BUTTE	0	1	220	0	12	0	0	260	0	110	301	40	34	6,514	1,733	0	66
CALAVERAS	0	0	0	0	0	0	0	7	0	27	0	0	0	1	7	0	2
COLUSA	0	249	521	40	823	0	0	236	8	0	1,968	346	6	2,009	1,899	15	0
CONTRA COSTA	0	0	10	6	188	0	2	182	0	77	3	1	12	169	144	0	107
DEL NORTE	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	1
EL DORADO	0	0	1	0	0	0	0	11	0	0	0	0	0	13	12	0	3
FRESNO	0	0	288	379	2,320	0	0	4,641	606	50	198	4,836	184	10,928	7,005	332	105
GLENN	0	84	318	0	14	0	0	77	0	0	131	337	25	3,280	240	0	0
HUMBOLDT	0	0	0	3	0	0	0	95	1	1,310	0	0	0	0	19	0	289
IMPERIAL	0	0	18,787	703	1,901	0	5	6,990	881	4	346	23	4	2,206	1,298	1,176	43
INYO	0	0	0	2	0	0	0	1	0	0	23	0	1	4	28	0	0
KERN	0	0	552	1,199	1,301	0	0	2,494	355	96	665	1,993	165	4,602	3,678	379	29
KINGS	0	0	896	193	957	0	0	1,522	0	276	0	140	2	1,131	745	3	1
LAKE	0	0	12	0	48	0	0	10	6	127	0	9	1	311	111	12	1
LASSEN	15	0	129	0	0	0	0	11	0	1	148	0	0	7	5	0	1
LOS ANGELES	0	0	79	0	4	0	0	320	0	646	10	42	10	28	104	0	301
MADERA	0	0	51	47	276	0	0	2,015	134	4	106	6	42	2,762	2,178	91	0
MARIN	0	0	0	0	0	0	0	0	0	103	0	0	0	0	0	0	108
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	3	10	0	31	0	2	80	0	40	766	0	7	63	280	75	317
MERCED	0	3	250	30	271	0	0	702	98	25	512	360	145	5,833	1,421	89	43
MODOC	50	126	177	0	4	0	0	0	0	105	0	0	0	32	34	0	0
MONO	0	0	1	2	0	0	0	1	0	0	13	0	0	0	0	0	0
MONTEREY	0	0	583	188	126	1	3	3,196	0	71	2	354	298	3,606	5,852	0	133
NAPA	0	36	15	0	14	0	0	89	11	6	0	0	7	383	199	21	15
NEVADA	0	0	0	0	0	0	0	3	0	0	173	0	0	0	8	0	11
ORANGE	0	0	0	0	48	0	0	71	0	293	0	0	1	47	286	0	190
PLACER	0	0	16	0	0	0	0	6	0	25	76	3	0	214	19	51	84
PLUMAS	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	2
RIVERSIDE	0	2	1,439	125	2,174	0	16	1,592	122	828	736	56	89	213	1,149	248	295
SACRAMENTO	0	128	62	0	5	0	0	321	1	216	163	158	4	1,254	1,086	1	354
SAN BENITO	0	0	0	0	20	0	0	363	0	0	0	6	0	300	262	0	0
SAN BERNARDINO	0	0	259	0	1	0	2	39	7	434	0	0	1	43	17	387	0
SAN DIEGO	0	1	66	22	0	0	23	534	0	379	157	206	341	847	435	2	315
SAN FRANCISCO	0	0	0	0	0	0	0	7	0	23	0	0	4	6	1	0	29
SAN JOAQUIN	0	0	128	35	0	0	0	1,327	0	216	1,225	358	124	7,926	4,383	0	216
SAN LUIS OBISPO	0	22	0	0	89	0	9	310	25	31	14	520	422	155	986	39	19
SAN MATEO	0	0	0	0	0	0	1	102	0	56	0	1	6	5	102	0	109
SANTA BARBARA	0	8	47	170	107	0	27	3,165	49	51	53	301	106	790	3,643	9	70
SANTA CLARA	0	0	4	0	0	0	0	380	0	142	0	79	3	42	511	12	164
SANTA CRUZ	0	12	35	1	21	0	1	486	0	31	0	151	130	444	404	0	53
SHASTA	2	118	171	0	0	0	0	31	0	403	123	0	6	41	41	0	28
SIERRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	93	176	0	3	0	0	129	0	49	72	46	0	123	47	0	85
SOLANO	0	334	64	0	10	0	0	224	17	43	725	265	145	453	645	19	85
SONOMA	0	1	27	0	13	1	1	527	26	104	1	12	29	279	613	48	90
STANISLAUS	0	3	727	83	1,091	0	0	1,367	64	81	5,311	2,319	328	14,195	2,376	93	103
SUTTER	0	839	144	0	7	0	0	98	0	3	95	502	23	1,251	1,213	0	2
TEHAMA	0	0	127	0	84	0	0	25	0	4	30	0	22	2,141	63	0	8
TRINITY	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	1
TULARE	0	161	110	483	834	0	0	1,913	208	76	468	2,093	228	2,049	6,008	224	25
TUOLUMNE	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
VENTURA	0	18	57	53	182	0	15	1,079	58	93	32	1,000	196	790	728	108	126
YOLO	0	114	247	0	202	0	0	645	9	87	170	359	12	3,030	1,934	16	64
YUBA	0	51	13	0	0	0	0	401	3	21	66	191	31	230	85	5	36
** UNKNOWN **	0	0	1,166	247	0	0	0	8,563	30	1,245	967	0	0	13,195	34,926	30	571
TOTAL	67	2,412	27,985	4,029	13,346	2	179	46,913	3,066	8,778	14,932	17,202	3,201	93,645	89,055	3,117	5,151



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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	1	7	26	0	34	0	19	8	0
ALPINE	0	0	0	0	0	0	0	0	1	0
AMADOR	0	0	0	0	0	0	0	0	0	0
BUTTE	0	0	2,115	351	0	67	38	867	86	2,180
CALAVERAS	0	0	63	0	0	6	0	0	231	0
COLUSA	71	0	27,126	8,502	0	19	477	510	1	443
CONTRA COSTA	0	5	179	3	0	69	23	71	21	0
DEL NORTE	0	0	0	0	0	0	0	0	0	0
EL DORADO	0	0	14	1	0	9	0	2	398	0
FRESNO	39	64	163,101	2,519	5,956	3,837	2,700	18,080	527	27,540
GLENN	3	0	3,962	997	0	56	354	444	0	1,316
HUMBOLDT	0	0	0	2,683	0	0	0	85	146	0
IMPERIAL	0	35	4,112	27,443	0	592	888	2,468	0	41,266
INYO	0	5	0	16	0	0	0	24	0	0
KERN	105	3	231,161	1,994	20,552	5,814	1,797	12,437	141	0
KINGS	4	1	102,953	5,597	2,752	5,613	33,748	1,794	3	12,767
LAKE	0	0	862	36	0	20	0	20	0	681
LASSEN	0	0	178	23	0	27	0	47	0	0
LOS ANGELES	0	3	183	5	24,967	652	10	579	1,294	0
MADERA	24	0	5,344	108	13,734	683	22	3,001	54	407
MARIN	0	0	1	1	0	0	0	0	0	0
MARIPOSA	0	0	0	0	0	0	0	0	0	0
MENDOCINO	1	0	107	78	0	5	0	241	11	47
MERCED	0	1	19,844	2,921	7,165	1,920	311	1,567	12	24,818
MODOC	0	0	385	6	0	266	0	70	0	370
MONO	0	0	0	95	0	0	0	5	0	0
MONTEREY	5	10	8,817	25,928	0	302	39	1,960	107	37,902
NAPA	0	0	1,284	172	0	39	0	8,368	547	6,040
NEVADA	0	0	0	0	0	19	0	6	9	20
ORANGE	0	13	109	8	8	479	0	478	182	0
PLACER	0	0	81	63	0	0	0	30	42	0
PLUMAS	0	0	0	0	0	0	0	0	0	0
RIVERSIDE	0	22	4,111	404	8,300	420	0	5,086	308	11,627
SACRAMENTO	0	1	1,372	1,002	1,269	1,501	0	378	2,094	42
SAN BENITO	0	0	2,377	183	0	2	8	280	0	2,321
SAN BERNARDINO	0	11	100	2	117	31	323	188	2,957	8,785
SAN DIEGO	6	28	830	125	0	9	0	652	1,591	3,742
SAN FRANCISCO	0	1	0	3	0	0	0	10	0	0
SAN JOAQUIN	1	4	11,412	12,666	0	11,523	395	1,286	155	0
SAN LUIS OBISPO	2	6	669	56	0	49	0	290	1	1,389
SAN MATEO	0	39	8	38	0	3	0	48	6	328
SANTA BARBARA	0	18	3,095	6,389	0	368	1,042	594	17	2,359
SANTA CLARA	0	0	187	51	0	4	3	76	15	124
SANTA CRUZ	0	3	102	25	0	451	0	469	47	8
SHASTA	0	4	775	4,952	0	27	0	28	33	167
SIERRA	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	0	1,229	156	0	574	231	404	1	1,878
SOLANO	0	0	16,543	52	41,309	151	13	334	121	0
SONOMA	2	36	2,593	981	18	10	0	2,157	24	4,557
STANISLAUS	7	8	45,564	12,027	55	4,808	320	1,974	2,052	6,897
SUTTER	0	0	4,582	355	0	256	0	211	22	487
TEHAMA	0	2	999	179	0	0	0	21	67	393
TRINITY	0	0	0	0	0	0	0	0	0	0
TULARE	49	51	72,903	2,018	0	4,551	3,080	8,953	576	11,252
TUOLUMNE	0	0	25	0	0	0	0	0	0	560
VENTURA	1	14	353	16	0	193	926	1,354	49	6,017
YOLO	0	1	17,911	848	0	1,039	714	313	69	18,028
YUBA	1	2	2,049	844	0	0	0	20	516	0
** UNKNOWN **	0	0	22,725	6,427	0	1,595	981	17,782	1,109	0
<b>TOTAL</b>	<b>321</b>	<b>392</b>	<b>784,502</b>	<b>129,375</b>	<b>126,202</b>	<b>48,093</b>	<b>48,443</b>	<b>96,081</b>	<b>15,651</b>	<b>236,758</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	220	52	106	378	21	25	41	87	353	144	497	875
ALPINE	0	0	0	0	0	0	0	0	0	1	1	1
AMADOR	3	6	25	34	0	0	0	0	0	0	0	34
BUTTE	1,292	15,751	4,608	21,651	314	3,025	99	3,438	164	151	315	21,966
CALAVERAS	70	19	37	126	63	0	6	69	238	26	264	390
COLUSA	2,592	46,055	17,253	65,900	1,218	34,437	1,050	36,705	3	0	3	65,903
CONTRA COSTA	255	493	1,377	2,125	34	204	112	350	471	29	500	2,625
DEL NORTE	0	0	0	0	0	0	0	0	0	40	40	40
EL DORADO	30	20	42	92	7	10	9	26	429	23	452	544
FRESNO	13,246	228,388	59,271	300,905	3,756	172,822	13,762	190,340	1,100	75	1,175	302,080
GLENN	960	11,536	3,672	16,168	639	4,787	390	5,816	11	0	11	16,179
HUMBOLDT	183	2,863	19	3,065	1	2,767	0	2,768	1,388	925	2,313	5,378
IMPERIAL	7,482	129,568	45,576	182,626	614	32,370	2,554	35,538	0	12	12	182,638
INYO	352	24	17	393	44	0	1	45	0	0	0	393
KERN	5,641	276,123	44,368	326,132	2,723	245,753	4,835	253,311	424	3,738	4,162	330,294
KINGS	1,127	132,538	49,941	183,606	189	115,065	34,456	149,710	4	4	8	183,614
LAKE	144	1,744	372	2,260	59	861	18	938	3	130	133	2,393
LASSEN	0	1,278	119	1,397	0	273	2	275	3	0	3	1,400
LOS ANGELES	1,458	26,026	73	27,557	446	972	14	1,432	2,479	928	3,407	30,964
MADERA	3,880	24,931	16,012	44,823	680	6,495	2,007	9,182	76	1	77	44,900
MARIN	2	0	0	2	2	0	0	2	428	5	433	435
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	556	648	433	1,637	119	301	12	432	1,243	327	1,570	3,207
MERCED	360	65,570	13,987	79,917	134	23,646	2,784	26,564	139	6	145	80,062
MODOC	10	2,391	495	2,896	3	679	45	727	0	0	0	2,896
MONO	0	131	3	134	0	100	0	100	0	0	0	134
MONTEREY	3,822	82,591	55,059	141,472	1,042	35,449	570	37,061	613	32	645	142,117
NAPA	602	15,696	732	17,030	182	9,353	328	9,863	600	0	600	17,630
NEVADA	17	28	32	77	0	0	25	25	67	153	220	297
ORANGE	1,476	1,013	1,040	3,529	186	856	45	1,087	812	527	1,339	4,868
PLACER	112	660	41	813	26	146	2	174	362	118	480	1,293
PLUMAS	1	1	0	2	0	0	0	0	31	3	34	36
RIVERSIDE	3,929	29,652	17,382	50,963	880	5,835	3,328	10,043	2,879	205	3,084	54,047
SACRAMENTO	1,112	7,173	4,973	13,258	409	2,458	1,387	4,254	3,348	576	3,924	17,182
SAN BENITO	3,388	3,288	2,739	9,415	2,310	396	144	2,850	0	0	0	9,415
SAN BERNARDINO	725	9,370	467	10,562	209	122	324	655	5,161	204	5,365	15,927
SAN DIEGO	6,553	4,436	1,021	12,010	1,110	334	206	1,650	3,246	61	3,307	15,317
SAN FRANCISCO	29	8	22	59	10	0	4	14	59	27	86	145
SAN JOAQUIN	2,368	43,294	23,868	69,530	1,043	31,532	4,712	37,287	1,315	49	1,364	70,894
SAN LUIS OBISPO	2,755	2,405	3,329	8,489	235	702	135	1,072	75	8	83	8,572
SAN MATEO	688	445	10	1,143	109	24	3	136	486	20	506	1,649
SANTA BARBARA	3,451	13,464	21,524	38,439	440	9,668	1,398	11,506	294	11	305	38,744
SANTA CLARA	777	1,012	704	2,493	239	46	36	321	815	61	876	3,369
SANTA CRUZ	2,039	2,997	1,335	6,371	180	810	60	1,050	251	43	294	6,665
SHASTA	194	7,287	76	7,557	31	5,755	0	5,786	60	437	497	8,054
SIERRA	21	1	0	22	0	0	0	0	1	0	1	23
SISKIYOU	474	6,206	1,142	7,822	414	1,949	231	2,594	1,305	5	1,310	9,132
SOLANO	377	20,762	43,890	65,029	52	16,803	238	17,093	403	1	404	65,433
SONOMA	1,976	9,775	1,401	13,152	585	4,853	341	5,779	250	160	410	13,562
STANISLAUS	4,132	92,270	34,131	130,533	1,254	59,665	3,789	64,708	2,449	93	2,542	133,075
SUTTER	754	11,998	6,022	18,774	323	4,968	113	5,404	29	3	32	18,806
TEHAMA	115	4,234	1,253	5,602	17	1,176	8	1,201	128	1	129	5,731
TRINITY	0	3	0	3	0	0	0	0	2	54	56	59
TULARE	7,016	105,786	28,714	141,516	2,884	80,536	8,376	91,796	623	173	796	142,312
TUOLUMNE	0	588	8	596	0	25	0	25	0	0	0	596
VENTURA	5,152	8,322	9,734	23,208	708	263	1,886	2,857	1,558	67	1,625	24,833
YOLO	1,099	43,546	9,934	54,579	405	19,011	1,410	20,826	309	9	318	54,897
YUBA	186	4,082	962	5,230	24	2,871	21	2,916	642	23	665	5,895
** UNKNOWN **	6,335	113,116	83,696	203,147	1,045	42,787	7,004	50,836	5,042	808	5,850	208,997
<b>TOTAL</b>	<b>101,538</b>	<b>1,611,664</b>	<b>613,047</b>	<b>2,326,249</b>	<b>27,418</b>	<b>982,985</b>	<b>98,321</b>	<b>1,108,724</b>	<b>42,171</b>	<b>10,497</b>	<b>52,668</b>	<b>2,378,917</b>

**STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE**  
**TONNAGE REPORT OF COMMERCIAL FERTILIZERS, AGRICULTURAL MINERALS, AND COMPOST**  
**JULY-DECEMBER 2021**  
**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	365	118	156	639	307	43	99	450	57	75	57	189
ALPINE	0	0	0	0	0	0	0	0	0	0	0	0
AMADOR	6	9	16	31	2	2	3	7	4	7	13	24
BUTTE	2,316	489	5,260	8,066	992	198	4,890	6,080	1,325	291	370	1,986
CALAVERAS	14	34	10	58	8	5	6	18	6	29	4	39
COLUSA	8,556	866	4,178	13,600	3,077	398	2,604	6,078	5,479	468	1,574	7,522
CONTRA COSTA	717	332	343	1,392	407	116	212	735	309	216	131	656
DEL NORTE	14	25	1	40	0	0	0	0	14	25	1	40
EL DORADO	42	37	22	100	35	7	14	55	8	30	8	46
FRESNO	18,781	6,440	14,170	39,391	6,889	1,464	9,623	17,975	11,892	4,976	4,547	21,416
GLENN	1,317	264	2,044	3,625	433	235	1,835	2,502	885	29	209	1,123
HUMBOLDT	701	1,408	312	2,420	682	506	295	1,483	19	902	17	938
IMPERIAL	32,018	18,673	3,795	54,486	18,752	14,075	3,330	36,157	13,266	4,598	465	18,329
INYO	61	2	44	107	59	1	44	104	2	1	0	3
KERN	17,624	4,322	7,297	29,243	1,872	1,462	4,360	7,694	15,752	2,860	2,937	21,548
KINGS	5,028	2,694	1,346	9,068	521	414	617	1,552	4,508	2,279	729	7,516
LAKE	160	175	142	477	98	22	35	155	63	152	107	322
LASSEN	376	86	98	561	344	75	93	512	33	11	5	49
LOS ANGELES	1,401	1,008	439	2,848	1,205	929	316	2,450	196	79	123	398
MADERA	4,471	2,299	3,733	10,503	797	1,591	1,683	4,071	3,674	708	2,050	6,433
MARIN	222	103	108	433	220	103	105	428	2	0	3	5
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	854	903	707	2,464	814	547	457	1,817	40	357	250	647
MERCED	4,558	1,064	4,920	10,542	1,105	613	3,931	5,648	3,453	451	989	4,894
MODOC	554	142	113	809	424	140	79	643	131	1	34	166
MONO	5	3	8	16	4	2	8	14	1	1	0	2
MONTEREY	21,475	3,716	7,998	33,190	3,241	1,733	3,736	8,710	18,234	1,983	4,262	24,479
NAPA	261	126	430	816	154	69	271	494	107	57	159	323
NEVADA	34	176	20	231	32	24	15	71	2	152	5	159
ORANGE	1,661	613	500	2,774	1,165	254	144	1,563	496	359	356	1,211
PLACER	464	115	263	842	421	69	235	725	42	46	28	116
PLUMAS	9	24	2	35	8	23	1	32	1	1	1	3
RIVERSIDE	6,915	4,105	2,292	13,312	3,753	2,125	1,484	7,361	3,163	1,980	808	5,950
SACRAMENTO	3,884	598	2,202	6,684	2,369	283	1,167	3,819	1,515	315	1,035	2,865
SAN BENITO	978	370	413	1,761	314	172	267	753	664	198	146	1,008
SAN BERNARDINO	2,018	616	448	3,082	1,909	567	413	2,888	109	49	35	193
SAN DIEGO	3,852	970	1,465	6,288	3,563	919	1,342	5,824	289	51	123	463
SAN FRANCISCO	41	30	35	106	28	16	24	68	13	14	11	38
SAN JOAQUIN	7,581	1,680	9,430	18,692	1,806	621	5,830	8,258	5,775	1,059	3,600	10,434
SAN LUIS OBISPO	1,496	405	1,430	3,331	628	158	627	1,413	869	246	803	1,918
SAN MATEO	652	158	216	1,027	642	151	207	1,001	10	7	9	26
SANTA BARBARA	8,878	3,432	4,262	16,572	1,531	643	1,109	3,283	7,347	2,788	3,153	13,288
SANTA CLARA	1,207	540	747	2,493	1,032	421	545	1,997	175	119	202	496
SANTA CRUZ	3,024	546	769	4,339	2,381	435	715	3,532	643	111	54	808
SHASTA	506	547	164	1,218	476	148	135	759	30	399	29	458
SIERRA	22	0	0	22	22	0	0	22	0	0	0	0
SISKIYOU	2,630	289	247	3,166	2,395	190	238	2,823	235	99	9	343
SOLANO	1,908	387	1,533	3,828	706	312	1,061	2,078	1,202	75	472	1,749
SONOMA	905	676	907	2,488	645	503	411	1,558	260	173	496	929
STANISLAUS	10,958	2,306	13,511	26,775	2,522	754	11,662	14,938	8,436	1,553	1,849	11,837
SUTTER	2,890	346	2,018	5,254	1,538	283	865	2,686	1,351	63	1,153	2,568
TEHAMA	687	124	1,169	1,980	351	73	1,112	1,537	336	51	57	443
TRINITY	4	54	1	59	4	1	0	5	0	53	1	54
TULARE	7,873	2,831	8,123	18,827	1,652	711	6,176	8,540	6,221	2,120	1,947	10,287
TUOLUMNE	1	3	0	4	1	0	0	1	1	3	0	4
VENTURA	6,554	1,361	1,682	9,597	4,072	818	1,303	6,194	2,482	543	379	3,404
YOLO	3,756	961	3,715	8,433	1,651	573	2,299	4,523	2,105	389	1,416	3,910
YUBA	514	442	346	1,302	274	115	314	703	239	327	33	599
** UNKNOWN **	57,094	10,578	42,699	110,370	32,184	5,921	28,258	66,363	24,909	4,656	14,441	44,007
<b>TOTAL</b>	<b>260,895</b>	<b>80,619</b>	<b>158,298</b>	<b>499,811</b>	<b>112,515</b>	<b>42,033</b>	<b>106,603</b>	<b>261,150</b>	<b>148,380</b>	<b>38,586</b>	<b>51,695</b>	<b>238,661</b>

STATE OF CALIFORNIA - DEPARTMENT OF FOOD AND AGRICULTURE  
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 JANUARY-DECEMBER 2021  
 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	2	4	0	24	3	0	77	91	0	192	0	0	38	0	163	0	821	
ALPINE	0	0	0	0	0	23	0	0	0	0	0	0	0	0	4	0	0	0	0	
AMADOR	0	0	0	0	0	157	0	0	2	0	0	0	0	0	5	0	14	0	2	
BUTTE	0	26,379	0	29	6	11,832	762	0	1,322	266	7	9,805	0	0	1,609	0	1,594	3	172	
CALAVERAS	0	0	0	0	0	36	0	0	24	1	0	12	0	0	0	0	9	0	18	
COLUSA	420	29,607	0	0	0	7,541	4	0	10,022	537	0	17,124	0	0	1,289	0	9,261	30	8	
CONTRA COSTA	0	78	28	108	0	124	4	0	498	59	0	2,571	0	0	181	0	672	0	935	
DEL Norte	0	0	0	0	0	6	0	0	0	0	0	0	0	0	14	0	0	0	20	
EL Dorado	0	0	0	0	0	25	0	0	20	111	0	23	0	0	0	0	26	0	76	
FRESNO	144	19	13	0	36	4,833	2,551	0	24,221	8,260	228	76,453	301	250	3,843	100	25,403	1,451	1,310	
GLENN	0	19,571	1	0	0	5,808	348	0	1,104	15	0	10,798	0	0	202	0	1,791	0	44	
HUMBOLDT	0	0	0	12	0	1	0	0	0	50	0	0	0	0	1	0	146	12	1,663	
IMPERIAL	2,940	0	1,483	3,830	1,527	9,299	191	23	3,821	450	305	58,365	47	0	53,362	0	9,573	803	7	
INYO	0	0	0	0	0	0	0	0	52	370	0	94	0	0	2	0	49	0	1	
KERN	195	0	0	459	0	598	517	0	11,652	768	6	66,446	0	0	2,191	77	11,927	1,100	5,309	
KINGS	1,695	42	0	0	0	895	98	0	3,916	739	368	29,476	0	0	618	57	2,100	331	104	
LAKE	0	24	0	0	0	172	0	0	297	31	0	191	0	0	27	0	115	22	23	
LASSEN	0	0	0	119	0	432	0	0	86	0	0	358	0	0	769	0	77	0	5	
LOS ANGELES	0	0	1	19	0	206	0	0	399	248	0	139	0	0	582	176	442	6	8,761	
MADERA	0	56	0	0	0	451	64	0	18,207	2,201	37	29,505	0	0	754	179	4,670	312	44	
MARIN	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	439	
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
MENDOCINO	26	525	15	1	0	60	0	0	303	218	0	123	0	0	179	0	544	174	1,396	
MERCED	0	30	0	11	0	1,874	87	0	13,378	747	222	28,081	0	0	1,006	71	5,939	154	261	
MODOC	0	0	0	48	0	1,150	90	0	1	7	0	474	0	534	973	0	130	9	109	
MONO	0	0	0	0	0	81	0	0	0	0	0	11	0	0	56	0	4	0	1	
MONTEREY	0	769	29	17,935	0	1,925	1,864	0	12,363	1,267	909	33,068	0	0	1,317	396	29,929	0	511	
NAPA	6	0	0	0	0	2	2	0	310	166	0	108	0	0	4	0	496	26	118	
NEVADA	0	0	0	0	0	6	0	0	2	4	0	3	0	0	1	0	17	4	128	
ORANGE	0	0	27	51	96	63	0	0	295	434	0	457	0	0	480	3	1,412	0	1,988	
PLACER	0	1,358	16	48	0	480	0	0	57	53	0	311	0	0	57	0	263	210	918	
PLUMAS	0	0	0	0	0	14	0	0	0	0	0	0	0	0	5	0	9	0	15	
RIVERSIDE	98	0	7	5,491	0	607	47	0	4,833	1,152	1	11,236	0	0	1,291	1	7,348	336	6,171	
SACRAMENTO	359	1,247	11	0	0	473	4	0	1,801	1,352	262	3,099	0	0	709	0	7,317	2	3,490	
SAN BENITO	0	0	10	56	0	8	0	0	2,178	858	0	136	0	0	57	0	1,225	2	5	
SAN BERNARDINO	0	75	40	60	0	113	0	0	81	137	0	172	106	0	129	1	569	171	5,106	
SAN DIEGO	0	0	659	161	0	121	0	0	504	1,093	1	206	0	0	500	108	4,383	0	2,218	
SAN FRANCISCO	0	337	0	0	0	43	0	0	0	16	0	308	0	0	0	0	139	0	70	
SAN JOAQUIN	114	0	1	67	0	3,896	444	0	12,422	1,115	274	36,722	0	0	1,644	0	8,813	0	3,046	
SAN LUIS OBISPO	0	26	7	1,461	0	843	0	0	1,094	487	6	1,193	0	0	219	0	1,374	116	136	
SAN MATEO	0	59	10	0	0	156	0	0	0	863	0	1	0	0	1	170	0	534	3	1,099
SANTA BARBARA	0	0	0	5,476	0	367	35	0	3,931	1,509	5	10,466	23	0	538	48	30,385	240	351	
SANTA CLARA	0	0	9	11	0	79	0	0	280	380	0	242	0	0	270	0	1,768	21	1,181	
SANTA CRUZ	0	0	0	9	0	176	0	4	464	396	0	217	0	2	233	13	3,587	35	250	
SHASTA	0	0	12	166	0	1,663	107	0	146	27	5	54	0	0	1,041	0	172	0	98	
SIERRA	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	29	0	1	
SISKIYOU	0	0	0	0	0	1,933	281	0	768	0	9	495	0	107	1,738	14	439	990	1,516	
SOLANO	949	199	0	240	0	2,590	0	0	1,299	726	608	6,313	0	0	1,055	1,618	8,965	42	603	
SONOMA	0	217	38	545	0	31	26	7	541	832	0	29	0	0	188	0	1,507	99	430	
STANISLAUS	1,086	40	0	55	79	9,046	197	0	35,761	839	2	49,548	0	0	4,411	0	17,499	205	721	
SUTTER	0	29,986	0	93	0	9,989	3	0	3,841	647	727	9,829	125	0	1,169	0	8,763	0	253	
TEHAMA	0	238	0	0	0	2,969	13	0	681	108	42	3,446	0	0	149	0	438	0	152	
TRINITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	45
TULARE	412	77	0	2	0	2,142	168	0	8,166	1,555	21	31,539	281	275	2,915	37	12,221	604	294	
TUOLUMNE	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	16	0	3	
VENTURA	0	275	34	1,092	0	175	0	0	6,581	1,213	1	2,581	0	3	767	1	8,210	118	1,745	
YOLO	147	6,165	0	10	0	2,304	2	0	8,864	682	612	17,866	0	0	1,244	0	5,119	0	337	
YUBA	0	4,150	0	931	0	1,989	6	0	1,105	35	281	1,401	25	0	189	0	5,585	7	118	
** UNKNOWN **	0	0	0	30	0	11,786	56	0	18,001	4,352	225	54,943	43	0	5,409	603	101,170	40	7,665	
<b>TOTAL</b>	<b>8,591</b>	<b>121,549</b>	<b>2,453</b>	<b>38,630</b>	<b>1,744</b>	<b>101,718</b>	<b>7,974</b>	<b>34</b>	<b>215,751</b>	<b>37,367</b>	<b>5,164</b>	<b>606,135</b>	<b>951</b>	<b>1,172</b>	<b>95,604</b>	<b>3,483</b>	<b>344,357</b>	<b>7,714</b>	<b>62,313</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	20	0	0	6	0	0	41	0	179	0	96	4	34	63	0	244
ALPINE	0	0	5	0	0	0	0	0	0	11	0	0	0	0	0	0	0
AMADOR	0	4	0	0	0	0	0	29	0	0	11	0	0	0	33	0	0
BUTTE	0	511	2,292	0	2,345	0	0	1,023	2	576	3,398	138	250	11,942	3,168	3	148
CALAVERAS	0	0	0	0	0	13	0	13	0	76	2	0	0	1	13	0	10
COLUSA	108	1,881	1,870	319	2,620	0	0	1,567	14	0	2,083	1,063	61	3,349	4,853	27	1
CONTRA COSTA	0	0	33	15	343	0	4	304	0	205	18	14	43	174	472	0	276
DEL NORTE	0	0	2	0	1	0	0	0	0	32	6	0	0	0	0	0	2
EL DORADO	1	0	1	0	1	0	0	28	0	31	0	0	0	23	31	0	13
FRESNO	0	13	658	555	3,480	44	1	12,284	843	153	521	8,995	539	15,078	19,141	503	430
GLENN	0	794	1,775	0	163	0	0	1,349	0	223	0	451	143	7,553	3,326	0	1
HUMBOLDT	0	0	0	3	0	0	0	143	6	0	1	5	0	32	0	11	1,064
IMPERIAL	0	3	22,769	3,329	4,067	0	5	10,848	1,201	4	430	85	131	3,372	2,334	1,603	47
INYO	0	0	0	5	0	0	0	11	0	0	23	0	5	9	46	0	0
KERN	0	274	1,323	1,898	5,210	1	2	6,476	947	125	2,323	5,780	1,129	11,145	12,752	572	90
KINGS	1	19	2,195	2,187	3,282	0	0	2,353	490	31	618	858	48	2,186	1,989	54	71
LAKE	0	0	39	0	119	0	0	30	10	160	2	10	3	84	163	20	5
LASSEN	15	0	167	0	7	0	0	20	0	2	148	0	0	12	6	0	3
LOS ANGELES	0	7	154	0	45	0	5	1,201	3	4,395	17	92	52	87	293	4	7,548
MADERA	0	0	310	484	1,365	0	0	3,509	202	7	523	1,179	292	4,584	6,182	114	9
MARIN	0	0	0	0	0	0	0	1	0	168	0	0	0	2	1	0	190
MARIPOSA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENDOCINO	0	3	14	0	519	0	2	186	83	1,749	0	11	8	158	422	173	1,541
MERCED	0	3	909	61	1,137	0	0	3,014	103	43	1,412	1,585	235	7,577	4,712	94	99
MODOC	50	1,226	951	0	9	0	0	0	5	43	793	0	0	379	34	4	1
MONO	0	0	14	4	25	0	0	2	0	0	34	0	1	0	1	0	0
MONTREY	0	0	802	913	385	1	6	7,212	0	149	5	618	536	5,110	9,329	0	292
NAPA	0	42	51	1	39	0	0	279	12	21	0	0	32	435	475	23	52
NEVADA	0	0	19	0	0	0	0	26	0	2	227	0	6	0	18	1	38
ORANGE	0	18	1	2	77	0	77	707	0	570	1	59	8	73	618	0	526
PLACER	0	118	118	0	0	0	0	21	81	166	136	0	0	223	62	165	331
PLUMAS	0	0	8	0	0	0	0	1	0	25	4	0	0	0	2	0	5
RIVERSIDE	0	3	2,136	344	4,415	0	37	3,584	157	1,833	1,404	86	251	548	1,976	300	1,114
SACRAMENTO	0	389	0	0	129	0	0	2,743	1	525	200	160	22	1,345	2,568	1	977
SAN BENITO	0	0	0	0	31	0	0	634	0	0	0	97	0	322	389	0	0
SAN BERNARDINO	0	0	357	31	3	0	6	58	78	1,005	0	3	43	4	70	149	1,355
SAN DIEGO	0	22	127	46	0	0	120	1,180	0	910	201	388	600	2,139	883	2	972
SAN FRANCISCO	0	0	6	0	0	0	0	26	0	43	0	154	8	6	32	0	75
SAN JOAQUIN	0	7	442	138	683	0	0	5,549	0	436	2,143	871	171	10,174	9,208	0	857
SAN LUIS OBISPO	0	25	48	3	164	0	17	632	59	88	64	811	958	475	1,580	91	71
SAN MATEO	0	0	0	1	0	0	0	288	0	96	0	1	17	21	225	0	207
SANTA BARBARA	0	11	139	442	390	0	76	5,502	53	91	171	901	146	1,345	5,838	12	280
SANTA CLARA	0	0	26	18	37	0	5	939	8	274	1	200	9	85	1,072	15	409
SANTA CRUZ	0	14	58	3	28	0	3	881	0	51	0	195	229	584	592	0	81
SHASTA	2	472	440	1	0	0	0	58	0	542	295	0	10	303	89	0	177
SIERRA	0	4	2	0	0	0	0	12	0	0	0	0	0	0	25	0	0
SISKIYOU	0	972	1,999	0	9	0	0	395	0	106	1,963	86	0	901	98	0	231
SOLANO	0	1,885	687	0	2,695	0	31	2,058	23	82	745	485	191	719	2,661	26	160
SONOMA	0	15	92	0	175	2	2	2,055	47	193	1	14	79	617	1,643	88	253
STANISLAUS	0	34	2,815	335	4,084	0	0	9,180	86	223	10,072	2,891	760	20,325	8,244	124	288
SUTTER	0	2,395	1,292	0	1,221	0	0	359	0	135	661	711	260	4,153	2,477	0	330
TEHAMA	0	31	1,021	0	294	0	0	76	0	95	66	9	106	4,771	271	0	28
TRINITY	0	0	0	0	0	0	0	0	1	74	0	0	0	0	0	2	22
TULARE	0	161	272	2,050	1,816	3	0	6,244	377	168	1,843	5,900	713	5,964	10,566	406	103
TUOLUMNE	0	0	0	0	16	0	0	1	0	0	0	0	0	0	1	0	0
VENTURA	79	79	248	395	66	0	42	2,073	66	133	91	2,143	198	1,625	1,592	117	200
YOLO	0	712	628	1	3,050	0	7	4,408	20	278	362	465	42	3,747	3,884	37	220
YUBA	0	268	384	0	183	0	0	506	3	21	858	244	126	659	214	5	36
** UNKNOWN **	0	0	3,058	283	0	0	0	25,926	30	3,653	1,106	0	24	24,898	49,869	38	2,921
TOTAL	256	12,435	53,018	13,867	44,891	51	449	127,664	5,013	23,025	34,990	37,855	8,478	159,320	176,436	4,784	24,302

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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	1	11	27	0	42	0	35	20	1,430
ALPINE	0	0	0	0	0	0	0	2	1	0
AMADOR	0	0	0	0	0	7	0	2	0	0
BUTTE	11	4	3,831	1,113	0	550	39	1,301	100	2,593
CALAVERAS	0	0	109	0	0	20	0	3	543	0
COLUSA	651	3	34,225	9,017	0	181	1,441	10,573	46	570
CONTRA COSTA	3	11	183	11	0	114	23	168	167	0
DEL NORTE	0	0	0	0	0	2	0	3	0	0
EL DORADO	0	0	16	2	0	20	0	3	429	0
FRESNO	91	206	308,902	3,760	8,947	7,300	7,800	44,473	1,567	53,331
GLENN	52	0	6,693	1,125	0	309	355	1,124	22	1,316
HUMBOLDT	0	2	24	5,036	0	0	0	139	920	33
IMPERIAL	0	71	5,797	80,644	0	1,333	2,574	4,005	5	56,405
INYO	0	10	3,860	25	0	0	1	24	0	0
KERN	151	27	441,831	12,656	23,291	72,389	11,549	35,187	972	0
KINGS	27	4	120,186	10,006	3,386	7,970	90,967	91,564	3	12,789
LAKE	0	0	1,029	38	0	32	0	74	0	681
LASSEN	0	2	281	119	0	40	0	117	0	0
LOS ANGELES	0	38	504	44	32,001	864	210	3,507	1,626	0
MADERA	28	7	6,999	277	24,990	1,483	381	5,085	86	2,455
MARIN	0	0	1	1	0	0	0	0	1	0
MARIPOSA	0	0	0	0	2,372	0	0	0	0	0
MENDOCINO	1	0	227	87	0	43	0	331	41	47
MERCED	1	4	34,044	4,325	8,652	5,919	699	4,088	20	31,846
MODOC	0	0	740	6	0	669	24	148	0	828
MONO	0	0	0	95	0	0	1	8	0	0
MONTEREY	10	36	15,045	32,731	0	380	126	3,501	219	52,826
NAPA	0	1	1,802	269	0	41	0	8,390	548	16,393
NEVADA	0	0	0	0	0	19	0	6	36	105
ORANGE	0	22	197	19	25	491	0	637	268	0
PLACER	0	0	202	94	0	4	0	42	119	0
PLUMAS	0	0	79	0	0	26	0	1	0	0
RIVERSIDE	1	2,957	5,063	426	13,371	752	0	7,394	1,282	21,232
SACRAMENTO	0	61	1,641	1,315	2,837	2,111	0	8,773	4,034	98
SAN BENITO	0	0	3,177	285	0	2	22	339	1	2,536
SAN BERNARDINO	0	14	210	14	3,424	37	323	303	3,621	21,283
SAN DIEGO	16	190	1,350	257	0	106	0	1,229	2,940	9,230
SAN FRANCISCO	0	1	8	3	0	0	0	72	3	0
SAN JOAQUIN	2	321	18,192	18,425	0	20,082	663	3,429	337	0
SAN LUIS OBISPO	4	13	2,008	86	0	93	0	1,795	94	1,413
SAN MATEO	0	86	27	339	0	5	0	101	142	601
SANTA BARBARA	70	32	5,038	9,109	0	747	1,110	4,203	54	2,359
SANTA CLARA	0	0	371	133	0	8	16	119	66	173
SANTA CRUZ	0	7	1,564	1,296	0	451	28	1,479	183	330
SHASTA	13	5	1,480	10,678	0	56	1	90	35	349
SIERRA	0	0	0	0	0	0	0	0	0	0
SISKIYOU	0	0	2,658	228	0	2,586	419	749	3	2,069
SOLANO	2	1	18,824	53	100,416	207	28	384	345	690
SONOMA	7	71	3,409	1,220	18	39	0	2,377	566	4,557
STANISLAUS	366	982	78,055	18,434	55	14,678	976	65,257	5,570	26,786
SUTTER	40	2	7,150	689	0	472	0	946	25	513
TEHAMA	0	33	1,661	284	0	325	6	174	67	459
TRINITY	0	0	0	0	0	0	0	0	1	0
TULARE	133	488	110,655	5,318	16	8,974	13,560	24,577	1,111	19,122
TUOLUMNE	0	0	26	551	0	0	0	0	0	1,447
VENTURA	1	50	2,787	73	82	410	1,011	2,648	129	9,079
YOLO	5	2	20,324	848	3,229	1,453	1,645	7,630	124	34,850
YUBA	2	2	2,563	1,062	0	192	0	31	599	2
** UNKNOWN **	0	5	37,026	8,850	0	1,680	1,635	39,957	1,244	0
<b>TOTAL</b>	<b>1,688</b>	<b>5,772</b>	<b>1,312,085</b>	<b>241,503</b>	<b>227,112</b>	<b>155,714</b>	<b>137,633</b>	<b>388,597</b>	<b>30,335</b>	<b>392,826</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	399	1,509	496	2,404	36	26	54	116	1,026	238	1,264	3,668
ALPINE	0	45	0	45	0	2	0	2	0	1	1	46
AMADOR	14	196	54	264	1	0	8	9	2	0	2	266
BUTTE	5,263	39,399	43,466	88,128	631	5,782	436	6,849	425	571	996	89,124
CALAVERAS	116	42	85	243	109	0	23	132	577	72	649	892
COLUSA	6,430	69,334	76,547	152,311	3,189	47,359	5,543	56,091	55	0	55	152,366
CONTRA COSTA	724	620	4,912	6,256	57	207	249	513	1,365	77	1,442	7,698
DEL NORTE	2	31	0	33	2	3	0	5	4	50	54	87
EL DORADO	91	46	95	232	10	10	21	41	496	52	548	780
FRESNO	42,054	419,807	183,713	645,574	12,732	325,974	33,829	372,535	3,180	277	3,457	649,031
GLENN	2,452	28,501	35,436	66,389	1,086	7,560	1,012	9,658	66	1	67	66,456
HUMBOLDT	379	5,235	341	5,955	117	5,071	310	5,498	4,691	1,488	6,179	12,134
IMPERIAL	22,768	227,029	96,993	346,790	1,021	87,181	6,222	94,424	7	56	63	346,853
INYO	541	3,889	140	4,570	58	3,860	2	3,920	1	0	1	4,571
KERN	21,448	588,403	133,051	742,902	9,013	544,152	20,625	573,790	2,685	3,758	6,443	749,345
KINGS	91,237	160,406	141,871	393,514	88,771	139,322	92,631	320,724	190	19	209	393,723
LAKE	260	2,030	931	3,221	89	1,034	50	1,173	24	164	188	3,409
LASSEN	24	1,867	884	2,775	23	285	251	559	10	0	10	2,785
LOS ANGELES	4,059	34,751	2,561	41,371	1,007	2,328	1,832	5,167	20,910	1,395	22,305	63,676
MADERA	7,154	43,895	65,836	116,885	1,442	8,315	4,503	14,260	108	38	146	117,031
MARIN	4	44	6	54	2	0	0	2	788	10	798	852
MARIPOSA	0	2,372	0	2,372	0	0	0	0	2	0	2	2,374
MENDOCINO	1,470	1,034	1,979	4,483	246	392	51	689	4,308	419	4,727	9,210
MERCED	4,025	98,007	59,988	162,020	1,148	40,383	7,549	49,080	400	23	423	162,443
MODOC	41	7,925	1,316	9,282	3	1,130	454	1,587	153	0	153	9,435
MONO	5	290	42	337	0	103	1	104	1	0	1	338
MONTEREY	8,530	118,697	104,133	231,360	1,530	49,008	1,291	51,829	1,028	106	1,134	232,494
NAPA	1,109	26,683	1,613	29,405	266	9,886	351	10,503	737	2	739	30,144
NEVADA	52	138	49	239	0	0	25	25	236	191	427	666
ORANGE	2,698	1,287	2,365	6,350	310	935	121	1,366	2,172	1,180	3,352	9,702
PLACER	387	1,770	2,002	4,159	82	257	3	342	1,283	211	1,494	5,653
PLUMAS	18	126	5	149	1	105	0	106	42	3	45	194
RIVERSIDE	8,401	50,399	40,154	98,954	1,502	7,197	7,894	16,593	9,620	711	10,331	109,285
SACRAMENTO	2,985	20,137	18,168	41,290	736	10,984	2,181	13,901	7,115	1,911	9,026	50,316
SAN BENITO	4,283	4,007	4,074	12,364	3,005	604	216	3,825	5	1	6	12,370
SAN BERNARDINO	1,678	25,593	889	28,160	401	169	331	901	10,513	478	10,991	39,151
SAN DIEGO	13,219	10,639	1,949	25,807	2,058	702	352	3,112	6,924	131	7,055	32,862
SAN FRANCISCO	219	121	819	1,159	19	0	65	84	128	63	191	1,350
SAN JOAQUIN	6,698	67,764	81,549	156,011	2,311	46,220	12,583	61,114	4,560	116	4,676	160,687
SAN LUIS OBISPO	4,614	4,537	8,016	17,167	347	2,304	1,348	3,999	344	43	387	17,554
SAN MATEO	2,436	995	79	3,510	479	76	3	558	1,504	40	1,544	5,054
SANTA BARBARA	7,607	22,416	60,694	90,717	676	17,752	1,881	20,309	752	24	776	91,493
SANTA CLARA	2,448	2,186	1,661	6,295	447	125	75	647	1,955	116	2,071	8,366
SANTA CRUZ	3,754	7,151	1,973	12,878	402	4,270	153	4,825	519	46	565	13,443
SHASTA	488	16,115	1,132	17,735	121	11,764	438	12,323	270	582	852	18,587
SIERRA	71	52	0	123	0	0	0	0	1	0	1	124
SISKIYOU	2,221	17,294	2,389	21,904	681	5,428	531	6,640	1,849	9	1,858	23,762
SOLANO	1,999	31,126	124,300	157,425	144	19,064	291	19,499	874	316	1,190	158,615
SONOMA	5,110	10,772	4,706	20,588	1,113	5,618	392	7,123	1,088	354	1,442	22,030
STANISLAUS	12,541	175,150	195,610	383,301	4,642	98,720	75,386	178,748	6,487	311	6,798	390,099
SUTTER	4,321	30,713	53,479	88,513	796	7,725	778	9,299	732	11	743	89,256
TEHAMA	474	12,064	5,133	17,671	38	2,399	46	2,483	254	88	342	18,013
TRINITY	0	8	0	8	0	0	0	0	85	57	142	150
TULARE	19,767	166,565	98,434	284,766	6,946	124,462	32,490	163,898	1,323	351	1,674	286,440
TUOLUMNE	5	2,026	35	2,066	1	576	0	577	3	0	3	2,069
VENTURA	10,643	15,849	19,673	46,165	1,377	2,561	3,042	6,980	2,071	136	2,207	48,372
YOLO	4,014	72,894	53,496	130,404	1,561	27,726	2,620	31,907	938	21	959	131,363
YUBA	770	8,540	13,781	23,091	134	3,771	30	3,935	648	43	691	23,782
** UNKNOWN **	31,426	203,307	158,033	392,766	1,961	73,481	15,037	90,479	12,733	1,547	14,280	407,046
<b>TOTAL</b>	<b>375,946</b>	<b>2,863,828</b>	<b>1,911,136</b>	<b>5,150,910</b>	<b>154,880</b>	<b>1,754,368</b>	<b>335,610</b>	<b>2,244,858</b>	<b>120,267</b>	<b>17,908</b>	<b>138,175</b>	<b>5,289,085</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	1,101	226	347	1,674	840	109	251	1,199	261	117	96	474
ALPINE	7	3	7	16	7	3	7	16	0	0	0	0
AMADOR	52	30	40	122	46	12	20	77	6	18	20	44
BUTTE	14,376	3,692	11,469	29,537	4,593	2,016	10,255	16,864	9,783	1,676	1,214	12,673
CALAVERAS	43	91	25	158	26	12	15	52	17	79	10	106
COLUSA	25,802	4,042	8,066	37,911	6,373	1,781	4,094	12,248	19,430	2,261	3,972	25,663
CONTRA COSTA	2,583	579	788	3,949	1,099	301	500	1,900	1,483	352	368	2,203
DEL NORTE	28	33	6	67	10	2	5	17	18	31	1	50
EL DORADO	120	60	56	236	104	25	42	171	16	35	14	65
FRESNO	61,928	15,118	30,142	107,187	14,109	2,795	17,035	33,939	47,819	12,323	13,107	73,249
GLENN	11,108	2,486	7,399	20,993	2,537	2,022	6,399	10,958	8,571	464	1,000	10,036
HUMBOLDT	1,832	2,980	1,110	5,922	1,787	1,581	1,058	4,425	45	1,400	52	1,497
IMPERIAL	63,311	27,076	6,004	96,391	34,694	18,298	4,859	57,851	28,617	8,778	1,145	38,540
INYO	143	14	67	224	105	10	64	178	39	4	3	45
KERN	44,027	11,088	22,149	77,264	5,823	2,860	11,734	20,417	38,204	8,228	10,415	56,847
KINGS	15,320	6,317	3,788	25,424	1,126	711	1,884	3,720	14,195	5,605	1,904	21,704
LAKE	346	269	235	850	150	47	73	270	196	222	162	580
LASSEN	701	118	104	923	508	102	98	708	193	16	6	215
LOS ANGELES	9,739	5,698	7,942	23,379	9,171	5,530	7,625	22,326	568	168	317	1,053
MADERA	18,611	4,605	9,299	32,514	1,978	2,144	4,144	8,266	16,633	2,460	5,155	24,249
MARIN	452	169	192	813	443	168	186	797	9	1	6	16
MARIPOSA	2	0	0	2	2	0	0	2	0	0	0	0
MENDOCINO	2,519	2,203	2,221	6,943	2,194	1,584	1,868	5,646	325	619	353	1,298
MERCED	18,925	4,053	9,993	32,970	3,593	1,538	6,732	11,863	15,332	2,515	3,261	21,107
MODOC	1,613	814	704	3,131	1,386	783	670	2,839	227	31	34	292
MONO	55	20	22	97	48	9	22	80	7	11	0	18
MONTEREY	48,829	8,405	12,551	69,785	9,154	2,884	5,814	17,852	39,675	5,521	6,737	51,933
NAPA	780	361	782	1,923	458	159	398	1,014	322	202	384	908
NEVADA	155	265	56	476	141	82	41	265	13	183	15	211
ORANGE	3,947	1,344	1,198	6,488	2,872	473	391	3,735	1,075	871	807	2,753
PLACER	1,954	353	751	3,058	1,442	254	682	2,378	512	99	69	680
PLUMAS	30	30	9	70	24	29	8	62	6	1	1	8
RIVERSIDE	21,065	8,389	4,636	34,090	12,599	4,332	3,257	20,188	8,466	4,057	1,379	13,902
SACRAMENTO	13,463	3,526	4,383	21,373	5,702	867	1,840	8,409	7,761	2,659	2,543	12,963
SAN BENITO	1,820	645	571	3,036	536	271	334	1,141	1,284	374	237	1,895
SAN BERNARDINO	6,122	1,347	1,596	9,065	5,835	1,120	1,542	8,497	287	227	54	568
SAN DIEGO	7,552	2,240	3,396	13,189	6,954	2,131	3,206	12,291	598	110	190	897
SAN FRANCISCO	388	72	147	608	150	33	87	271	238	39	60	337
SAN JOAQUIN	27,842	6,523	16,705	51,070	6,434	1,959	9,995	18,388	21,409	4,564	6,710	32,682
SAN LUIS OBISPO	3,006	874	2,618	6,498	1,132	354	1,327	2,813	1,873	520	1,291	3,685
SAN MATEO	1,895	385	450	2,730	1,858	374	432	2,664	37	11	18	66
SANTA BARBARA	36,735	6,127	7,168	50,029	2,997	1,195	2,330	6,521	33,738	4,932	4,838	43,508
SANTA CLARA	3,447	1,259	1,587	6,293	2,822	986	1,251	5,059	625	273	336	1,234
SANTA CRUZ	4,273	977	1,109	6,359	3,218	807	1,041	5,066	1,055	170	68	1,293
SHASTA	1,321	925	599	2,845	1,179	370	526	2,074	143	555	73	771
SIERRA	42	14	25	80	42	14	25	80	0	0	0	0
SISKIYOU	4,893	1,740	1,974	8,607	4,467	1,609	1,962	8,039	426	130	12	568
SOLANO	15,022	3,838	3,844	22,704	3,618	1,402	1,779	6,799	11,404	2,436	2,065	15,905
SONOMA	2,565	2,407	2,331	7,303	1,847	988	1,038	3,874	718	1,419	1,293	3,429
STANISLAUS	46,192	12,529	25,828	84,549	7,774	2,670	19,995	30,438	38,418	9,859	5,833	54,111
SUTTER	22,470	2,060	5,551	30,081	7,712	1,482	3,185	12,379	14,758	578	2,366	17,702
TEHAMA	2,739	808	2,773	6,320	1,252	564	2,637	4,453	1,487	244	136	1,867
TRINITY	50	75	24	149	49	22	21	92	1	53	3	57
TULARE	27,492	8,688	16,775	52,954	4,815	1,613	10,992	17,419	22,677	7,075	5,783	35,535
TUOLUMNE	23	6	1	30	6	1	1	8	17	5	0	23
VENTURA	12,980	2,762	3,335	19,077	6,824	1,652	2,516	10,992	6,156	1,110	819	8,085
YOLO	15,899	6,216	6,352	28,468	3,272	1,043	3,183	7,498	12,628	5,173	3,169	20,969
YUBA	8,077	846	1,208	10,131	1,080	403	1,118	2,601	6,997	442	91	7,530
** UNKNOWN **	135,638	30,952	65,651	232,241	78,077	18,201	44,953	141,230	57,561	12,751	20,699	91,011
<b>TOTAL</b>	<b>773,453</b>	<b>208,771</b>	<b>318,154</b>	<b>1,300,378</b>	<b>279,092</b>	<b>94,786</b>	<b>207,543</b>	<b>581,421</b>	<b>494,361</b>	<b>114,059</b>	<b>110,692</b>	<b>719,111</b>