

Section 7.6
Livestock Husbandry (Non-Cattle)
(Revised February 2020)

Emission Inventory Source Category

Miscellaneous Processes / Farming Operations

Emission Inventory Codes and Description

620-618-0262-0104 Livestock Husbandry – Poultry, Broilers
620-618-0262-0105 Livestock Husbandry – Poultry, Layers
620-618-0262-0106 Livestock Husbandry – Poultry, Turkeys
620-618-0262-0107 Livestock Husbandry – Swine
620-618-0262-0108 Livestock Husbandry – Sheep
620-618-0262-0109 Livestock Husbandry – Horses
620-618-0262-0110 Livestock Husbandry – Goats and Others

Overview

This method is used to estimate ammonia, total organic gases (TOG), and reactive organic gases (ROG) emissions produced by poultry, swine, sheep, horses, goats, mules, and rabbits.

This update for the 2017 inventory year largely remains consistent with CARB’s prior methodology with the following changes: it relies on activity data from the 2017 Census of Agriculture (USDA, 2019), it revises CARB’s approach to estimating activity data for counties where such information is withheld from the Census, and it does not rely on any District-specific activity data that was previously provided (with the understanding that Districts may provide superseding emissions inventories in the future).

Activity Data

Livestock emissions are assumed to be directly related to animal population. Animal population data was obtained exclusively from the US Department of Agriculture (USDA) Census of Agriculture (USDA, 2019; USDA, 2014; USDA, 2009; USDA, 2004; USDA, 1999).

This update primarily relies on the “inventory” data series from the 2017 Census, which reports the number of animals present in a county at a single point-in-time in the end of 2017.

Inventory data are withheld for certain county-animal types to protect confidentiality of individual operations. CARB relied on the following procedure to estimate the inventory for counties where this information was withheld:

Step 1: Use county-specific inventory for 2017 where available

Step 2: If county-specific data was withheld for 2017 but is reported in a prior Census year, grow the most recently available prior year at the statewide growth rate

Step 3: If county-specific inventory is not available for all Census years, estimate the inventory based on the number of farms that carry the animal type. County-specific farm counts are never withheld from the Census. These data are reported at different levels of detail depending on the animal type. Specifically:

- a. *Chickens – Layers, Swine, and Sheep*: For these animal types, the Census provides the number of farms in each county, reported separately by inventory range (e.g. “60 Farms in Santa Cruz have an inventory of 1 to 49 head”). The inventory is estimated by multiplying these farm counts by the statewide average inventory for farms belonging to that inventory range. See Table 4 for calculations.
- b. *Chickens – Broilers*: While the Census does not provide farm counts broken out by inventory range, it does provide the equivalent information broken out by range of number of animals sold. The number of animals sold in a county is estimated in a procedure equivalent to Step 3.a. See Table 5.
- c. *Turkeys, Chickens – Pullets, Horses, Goats, Mules, Rabbits*: For these animal types, the Census does not provide farm counts separately by inventory range, but does provide total number of farms in each county that carry each animal type. The inventory is estimated by multiplying the number of farms in the county by the statewide average inventory per farm. See Table 6.

Step 4: Rescale inventory estimates from Steps 2 and 3 by an adjustment factor so that the total inventory across all 58 counties sums to the statewide total reported in the 2017 Census. For broilers, an equivalent adjustment is made to estimates of total animals sold. See Table 7 and Table 8 for the resulting inventory for all 58 counties including the relevant adjustment factors.

CARB allocated the county-level activity data to county-air basin-district based on fractions from the CARB (2004) methodology and supplemental information provided by the Districts (Villalvazo, 2010; Kim, 2011; Kuklo, 2020). These fractions are reported in Table 9.

Emission Factors

CARB maintained the emission factors that were used in its prior methodology (CDFA (2005); Dickson (1988); Battye (1994); Gharib and Cass (1984); Villalvazo (2010)). All emission factors and their sources are detailed in Table 10.

Consistent with prior methodology, CARB only estimates emissions for the following criteria pollutants: Ammonia, TOG and ROG.

Control Factors

CARB applied control factors to reflect emission reductions due to rules and regulations that have affected emissions in these categories. These control factors were calculated according to the latest control profiles provided by the Districts as captured in CARB’s California Emission Projection Analysis Model (CEPAM). All control factors are reflected in Table 11.

EIC Assignment

CARB assigned emissions from each animal type to their relevant EIC. The animal types included in each EIC are detailed in the table below.

Table 1: Animal Type by EIC

EIC	Animal Type
620-618-0262-0104	CHICKENS, BROILERS
620-618-0262-0105	CHICKENS, LAYERS; CHICKENS, PULLETS, REPLACEMENT
620-618-0262-0106	TURKEYS
620-618-0262-0107	HOGS
620-618-0262-0108	SHEEP, INCL LAMBS
620-618-0262-0109	EQUINE, HORSES & PONIES (HORSES)
620-618-0262-0110	GOATS; EQUINE, MULES & BURROS & DONKEYS (MULES); RABBITS, LIVE

The resulting annual emissions inventory for all counties and animal types are reported in Table 13 (Ammonia), Table 14 (TOG), and Table 15 (ROG).

Temporal Activity

CARB maintained the temporal activity profiles from its prior methodology. For most Districts, monthly emissions were assumed to occur evenly throughout the year.

Table 2: Default Monthly Temporal Profile

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3

CARB also maintained any District-specific temporal profiles that are currently in the CEIDARS database. For non-cattle livestock, the only District-specific temporal profile is for the South Coast Air Quality Management District:

Table 3: Monthly Temporal Profile – South Coast Air Quality Management District

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5.5	6.2	6.2	6.7	10.4	13.5	15	12.7	9.5	6	4.2	4.2

Daily and weekly temporal activity were assumed to be 7 days a week and 52 weeks per year. Hourly temporal activity is reflected in Table 12.

Sample Calculations

Emissions for each pollutant in this category were calculated using the following formula:

Emissions (tons / year) =

Number of animals per county

x County-Air Basin-District Split

x Emission Factor (lbs / head)

x (ton / lbs)

x Control Factor

In most cases, the number of animals per county (and their respective emission factors) are reported for a single point-in-time. In cases where broilers were estimated using Step 3.b. described above, the number of animals (and their respective emission factors) are reported as per animal sold.

Several examples are included below to reflect the various methodologies used to estimate the number of animals for a given county-animal type.

Example 1: County-specific inventory data is available for 2017

Chickens-broilers in Fresno County

Animals = Fresno Inventory in 2017 = 21,434,530 head

Ammonia emissions = (21,434,530 head) x 1 x (0.096 lbs / head) x (1/2000) x (0.984) = 1,012.65 tons / year

Example 2: Grow inventory from prior years

Sheep in Kings County

Animals = Kings Inventory 2012 x (Statewide Inventory 2017 / Statewide Inventory 2012) x (Adjustment Factor) = (17,501) x (475,291/668,517) x (0.5556) = 6,913 head

Ammonia emissions = (6,913 head) x 1 x (7.43 lbs / head) x (1/2000) x 1 = 25.68 tons / year

Example 3: Inventory based on number of farms, reported by farm size:

Chickens-layers in Alpine County

Animals = (# Farms in Alpine with Inventory of 1 to 49 Head) x (Average Inventory for Farms with Inventory of 1 to 49 Head, Statewide) x (Adjustment Factor) = (2 farms) x (15 head per farm) x (1.5107) = 45 head

TOG emissions = (45 head) x 1 x (2.4 lbs / head) x (1/2000) x 1 = 0.05 tons / year

Example 4: Animals sold based on number of operations, reported by operation size:

Chickens-broilers in Santa Cruz

Animals Sold = ((# Operations with Sales of 1 to 1,999 Head) x (Average Sales for Operations with Sales of 1 to 1,999 Head, Statewide) + (# Operations with Sales of 2,000 to 59,999 Head) x (Average Sales for Operations with Sales of 2,000 to 59,999 Head,

Statewide)) x (Adjustment Factor) = ((2 operations) x (1,000 head) + (1 operation) x (31,000 head)) x (0.9973) = 32,910 head sold

Ammonia emissions = (32,910 head sold) x 1 x (0.0143 lb / head sold) x (1/2000) x 1 = 0.2353 tons / year

Example 5: Inventory based on number of farms:

Rabbits in Tehama County

Animals = (# Farms) x (Average Inventory per Farm, Statewide) x (Adjustment Factor) = (4 farms) x (97 head per farm) x (0.4852) = 188 head

Ammonia emissions = (188 head) x 1 x (0.37 lb / head) x (1/2000) x 1 = 0.03 tons / year

Changes in Methodology

CARB made the following changes relative to its prior methodology for these categories

- Updated activity data to reflect the 2017 Census of Agriculture
- Modified CARB's approach for estimating activity data in counties where the inventory is withheld from the Census
- Re-estimated controlled emissions based on the latest available control profiles in CARB's CEPAM model
- Excluded any activity data that Districts had provided in prior years with the understanding that Districts may provide superseding emissions updates and accompanying methodologies for this category

References

Battye, R. (1994). Development and selection of ammonia emission factors final report. US EPA Contract No. 68-D3-0034, Work Assignment 0-3.

<https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=P100ERTR.txt>

California Air Resources Board. (2004). Area-Wide Source Methodologies: Section 7.6 – Livestock Husbandry.

California Department of Food and Agriculture (CDFA). (2005). Final Report: Quantification of Gaseous Emissions from California Broiler Production Houses. Summers, Matthew D.

<https://ww3.arb.ca.gov/ag/caf/poulemisrpt.pdf>

Gharib, S. and Cass, GR. (1984). Ammonia emissions in the South Coast Air Basin 1982. Open file report 84-2. Environmental Quality Laboratory, California Institute of Technology. Pasadena, California 91125. <http://www.thesalmons.org/lynn/glen/EQL84-2.pdf>

Dickson, R.J. Radian Corporation. (1988). Evaluation of Emissions from Selected Uninventoried Sources in the State of California, prepared for the California Air Resources Board.

<https://ww3.arb.ca.gov/research/apr/past/a5-147-32.pdf>.

Kim, B. (2011). Email communication from Bong Kim (South Coast Air Quality Management District) to Vivian Lerch (CARB) on 4-6-11 and 5-6-11.

Kuklo, H. (2020). Email communication with Heather Kuklo (Placer County Air Pollution Control District) to Andrew King (CARB) on 1-17-20.

USDA National Agricultural Statistics Service. (2019). 2017 Census of Agriculture. Complete data available at www.nass.usda.gov/AgCensus.

USDA National Agricultural Statistics Service. (2014). 2012 Census of Agriculture. Complete data available at www.nass.usda.gov/AgCensus.

USDA National Agricultural Statistics Service. (2009). 2007 Census of Agriculture. Complete data available at www.nass.usda.gov/AgCensus.

USDA National Agricultural Statistics Service. (2004). 2002 Census of Agriculture. Complete data available at www.nass.usda.gov/AgCensus.

USDA National Agricultural Statistics Service. (1999). 1997 Census of Agriculture. Complete data available at www.nass.usda.gov/AgCensus.

Villalvazo, L. (2010). Email communication from Leland Villalvazo (San Joaquin Valley Air Pollution Control District) to Vivian Lerch (CARB) on 11-9-10.

Appendix

Table 4: Estimating Inventory Based on Farm Counts by Inventory Size

Animal Type	County	Size Range	# Farms [A]	Average Inventory of Farms This Size, Statewide [B]	Inventory [A] x [B]
CHICKENS_LAYERS	ALPINE	1 TO 49 HEAD	2	15	30
CHICKENS_LAYERS	ALPINE	County Subtotal			30
CHICKENS_LAYERS	KERN	1 TO 49 HEAD	133	15	1,995
CHICKENS_LAYERS	KERN	50 TO 99 HEAD	16	62	992
CHICKENS_LAYERS	KERN	100 TO 399 HEAD	5	173	865
CHICKENS_LAYERS	KERN	100,000 OR MORE HEAD	2	476,582	953,164
CHICKENS_LAYERS	KERN	County Subtotal			957,016
CHICKENS_LAYERS	SANTA CRUZ	1 TO 49 HEAD	60	15	900
CHICKENS_LAYERS	SANTA CRUZ	100 TO 399 HEAD	6	173	1,038
CHICKENS_LAYERS	SANTA CRUZ	400 TO 3,199 HEAD	1	1,041	1,041
CHICKENS_LAYERS	SANTA CRUZ	100,000 OR MORE HEAD	1	476,582	476,582
CHICKENS_LAYERS	SANTA CRUZ	County Subtotal			479,561

Note: This method is only used when county-specific inventory data is unavailable for all Census years. While sufficient data for this method is available for layers, swine, and sheep, the latter two animal types did not rely on this method because county-specific Census data was available for all counties.

Table 5: Estimating Animals Sold Based on Operation Counts by Size (Broilers Only)

Animal Type ¹	County	Size Range	# Operations [A]	Average Sold for Operations This Size ² , Statewide [B]	# Sold [A] x [B]
CHICKENS_BROILERS	MERCED	100,000 TO 199,999 HEAD SOLD	2	162,667	325,334
CHICKENS_BROILERS	MERCED	200,000 TO 499,999 HEAD SOLD	2	350,000	700,000
CHICKENS_BROILERS	MERCED	500,000 OR MORE HEAD SOLD	5	9,408,948	47,044,740
CHICKENS_BROILERS	MERCED	County Subtotal			48,070,074
CHICKENS_BROILERS	PLACER	1 TO 1,999 HEAD SOLD	8	1,000	8,000
CHICKENS_BROILERS	PLACER	2,000 TO 59,999 HEAD SOLD	1	31,000	31,000
CHICKENS_BROILERS	PLACER	500,000 OR MORE HEAD SOLD	2	9,408,948	18,817,896
CHICKENS_BROILERS	PLACER	County Subtotal			18,856,896
CHICKENS_BROILERS	SAN BENITO	1 TO 1,999 HEAD SOLD	1	1,000	1,000
CHICKENS_BROILERS	SAN BENITO	2,000 TO 59,999 HEAD SOLD	1	31,000	31,000
CHICKENS_BROILERS	SAN BENITO	County Subtotal			32,000
CHICKENS_BROILERS	SAN MATEO	2,000 TO 59,999 HEAD SOLD	1	31,000	31,000
CHICKENS_BROILERS	SAN MATEO	County Subtotal			31,000
CHICKENS_BROILERS	SANTA CRUZ	1 TO 1,999 HEAD SOLD	2	1,000	2,000
CHICKENS_BROILERS	SANTA CRUZ	2,000 TO 59,999 HEAD SOLD	1	31,000	31,000
CHICKENS_BROILERS	SANTA CRUZ	County Subtotal			33,000

Notes: (1) This method is only used for broilers in counties where inventory data is unavailable for all Census years. (2) For size ranges where the average sold is withheld from the 2017 Census, the midpoint of the range is used.

Table 6: Estimating Inventory Based on Average Farm Size

Animal Type	County	# Farms [A]	# Farms Statewide [B]	Inventory Statewide [C]	Inventory [A] x ([C]/[B])
CHICKENS_PULLETS	IMPERIAL	2	1,025	4,484,233	8,750
CHICKENS_PULLETS	KERN	27	1,025	4,484,233	118,121
CHICKENS_PULLETS	ORANGE	1	1,025	4,484,233	4,375
GOATS	SIERRA	2	3,938	133,330	68
MULES	ALPINE	1	2,007	5,832	3
MULES	ORANGE	2	2,007	5,832	6
MULES	SIERRA	1	2,007	5,832	3
RABBITS	COLUSA	2	189	18,381	195
RABBITS	DEL NORTE	2	189	18,381	195
RABBITS	LAKE	4	189	18,381	389
RABBITS	NAPA	1	189	18,381	97
RABBITS	ORANGE	2	189	18,381	195
RABBITS	SAN MATEO	2	189	18,381	195
RABBITS	SANTA CRUZ	3	189	18,381	292
RABBITS	TEHAMA	4	189	18,381	389

Note: This method is only used for turkeys, pullets, horses, goats, mules, and rabbits where county-specific inventory data is withheld for all Census years.

Table 7: Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_BROILERS	ALAMEDA	2.a Grow county inv from 5 yrs prior at state rate	135	1.3180	178
CHICKENS_BROILERS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	AMADOR	1. County-specific inventory, 2017	105	1.0000	105
CHICKENS_BROILERS	BUTTE	1. County-specific inventory, 2017	2,161	1.0000	2,161
CHICKENS_BROILERS	CALAVERAS	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	CONTRA COSTA	1. County-specific inventory, 2017	148	1.0000	148
CHICKENS_BROILERS	DEL NORTE	2.a Grow county inv from 5 yrs prior at state rate	346	1.3180	456
CHICKENS_BROILERS	EL DORADO	1. County-specific inventory, 2017	943	1.0000	943
CHICKENS_BROILERS	FRESNO	1. County-specific inventory, 2017	21,434,530	1.0000	21,434,530
CHICKENS_BROILERS	GLENN	1. County-specific inventory, 2017	126	1.0000	126
CHICKENS_BROILERS	HUMBOLDT	1. County-specific inventory, 2017	1,269	1.0000	1,269
CHICKENS_BROILERS	IMPERIAL	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	INYO	2.c Grow county inv from 15 yrs prior at state rate	134	1.3180	177
CHICKENS_BROILERS	KERN	1. County-specific inventory, 2017	156	1.0000	156
CHICKENS_BROILERS	KINGS	2.d Grow county inv from 20 yrs prior at state rate	1,807,543	1.3180	2,382,281
CHICKENS_BROILERS	LAKE	1. County-specific inventory, 2017	110	1.0000	110
CHICKENS_BROILERS	LASSEN	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	LOS ANGELES	1. County-specific inventory, 2017	250	1.0000	250
CHICKENS_BROILERS	MADERA	1. County-specific inventory, 2017	216,494	1.0000	216,494
CHICKENS_BROILERS	MARIN	1. County-specific inventory, 2017	1,312	1.0000	1,312
CHICKENS_BROILERS	MARIPOSA	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	MENDOCINO	1. County-specific inventory, 2017	126	1.0000	126
CHICKENS_BROILERS	MODOC	2.a Grow county inv from 5 yrs prior at state rate	129	1.3180	170
CHICKENS_BROILERS	MONO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	MONTEREY	1. County-specific inventory, 2017	210	1.0000	210
CHICKENS_BROILERS	NAPA	1. County-specific inventory, 2017	130	1.0000	130
CHICKENS_BROILERS	NEVADA	1. County-specific inventory, 2017	788	1.0000	788
CHICKENS_BROILERS	ORANGE	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	PLUMAS	1. County-specific inventory, 2017	210	1.0000	210

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_BROILERS	RIVERSIDE	1. County-specific inventory, 2017	1,547	1.0000	1,547
CHICKENS_BROILERS	SACRAMENTO	1. County-specific inventory, 2017	952,627	1.0000	952,627
CHICKENS_BROILERS	SAN BERNARDINO	1. County-specific inventory, 2017	1,240	1.0000	1,240
CHICKENS_BROILERS	SAN DIEGO	2.a Grow county inv from 5 yrs prior at state rate	111,124	1.3180	146,458
CHICKENS_BROILERS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	SAN JOAQUIN	1. County-specific inventory, 2017	403,466	1.0000	403,466
CHICKENS_BROILERS	SAN LUIS OBISPO	1. County-specific inventory, 2017	571	1.0000	571
CHICKENS_BROILERS	SANTA BARBARA	2.a Grow county inv from 5 yrs prior at state rate	1,956	1.3180	2,578
CHICKENS_BROILERS	SANTA CLARA	2.a Grow county inv from 5 yrs prior at state rate	571	1.3180	753
CHICKENS_BROILERS	SHASTA	1. County-specific inventory, 2017	168	1.0000	168
CHICKENS_BROILERS	SIERRA	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_BROILERS	SISKIYOU	2.a Grow county inv from 5 yrs prior at state rate	2,383	1.3180	3,141
CHICKENS_BROILERS	SOLANO	1. County-specific inventory, 2017	3,800	1.0000	3,800
CHICKENS_BROILERS	SONOMA	2.d Grow county inv from 20 yrs prior at state rate	2,471,477	1.3180	3,257,323
CHICKENS_BROILERS	STANISLAUS	1. County-specific inventory, 2017	6,257,773	1.0000	6,257,773
CHICKENS_BROILERS	SUTTER	1. County-specific inventory, 2017	140	1.0000	140
CHICKENS_BROILERS	TEHAMA	2.a Grow county inv from 5 yrs prior at state rate	7,418	1.3180	9,776
CHICKENS_BROILERS	TRINITY	1. County-specific inventory, 2017	903	1.0000	903
CHICKENS_BROILERS	TULARE	2.c Grow county inv from 15 yrs prior at state rate	2,766,198	1.3180	3,645,756
CHICKENS_BROILERS	TUOLUMNE	1. County-specific inventory, 2017	721	1.0000	721
CHICKENS_BROILERS	VENTURA	1. County-specific inventory, 2017	941	1.0000	941
CHICKENS_BROILERS	YOLO	2.a Grow county inv from 5 yrs prior at state rate	3,470	1.3180	4,574
CHICKENS_BROILERS	YUBA	1. County-specific inventory, 2017	784	1.0000	784
CHICKENS_LAYERS	ALAMEDA	1. County-specific inventory, 2017	1,366	1.0000	1,366
CHICKENS_LAYERS	ALPINE	3.a # Farms (by size range) x avg inv per farm, 2017	30	1.5107	45
CHICKENS_LAYERS	AMADOR	1. County-specific inventory, 2017	1,475	1.0000	1,475
CHICKENS_LAYERS	BUTTE	1. County-specific inventory, 2017	5,543	1.0000	5,543
CHICKENS_LAYERS	CALAVERAS	1. County-specific inventory, 2017	2,397	1.0000	2,397
CHICKENS_LAYERS	COLUSA	1. County-specific inventory, 2017	599	1.0000	599
CHICKENS_LAYERS	CONTRA COSTA	1. County-specific inventory, 2017	3,194	1.0000	3,194
CHICKENS_LAYERS	DEL NORTE	1. County-specific inventory, 2017	396	1.0000	396
CHICKENS_LAYERS	EL DORADO	1. County-specific inventory, 2017	6,396	1.0000	6,396

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_LAYERS	FRESNO	2.a Grow county inv from 5 yrs prior at state rate	4,677	1.5107	7,066
CHICKENS_LAYERS	GLENN	1. County-specific inventory, 2017	1,895	1.0000	1,895
CHICKENS_LAYERS	HUMBOLDT	1. County-specific inventory, 2017	4,164	1.0000	4,164
CHICKENS_LAYERS	IMPERIAL	1. County-specific inventory, 2017	494	1.0000	494
CHICKENS_LAYERS	INYO	2.a Grow county inv from 5 yrs prior at state rate	218	1.5107	330
CHICKENS_LAYERS	KERN	3.a # Farms (by size range) x avg inv per farm, 2017	957,016	1.5107	1,445,775
CHICKENS_LAYERS	KINGS	1. County-specific inventory, 2017	972	1.0000	972
CHICKENS_LAYERS	LAKE	1. County-specific inventory, 2017	2,752	1.0000	2,752
CHICKENS_LAYERS	LASSEN	1. County-specific inventory, 2017	837	1.0000	837
CHICKENS_LAYERS	LOS ANGELES	1. County-specific inventory, 2017	3,005	1.0000	3,005
CHICKENS_LAYERS	MADERA	1. County-specific inventory, 2017	1,996	1.0000	1,996
CHICKENS_LAYERS	MARIN	1. County-specific inventory, 2017	23,433	1.0000	23,433
CHICKENS_LAYERS	MARIPOSA	1. County-specific inventory, 2017	1,924	1.0000	1,924
CHICKENS_LAYERS	MENDOCINO	1. County-specific inventory, 2017	3,817	1.0000	3,817
CHICKENS_LAYERS	MERCED	1. County-specific inventory, 2017	3,516,959	1.0000	3,516,959
CHICKENS_LAYERS	MODOC	1. County-specific inventory, 2017	1,194	1.0000	1,194
CHICKENS_LAYERS	MONO	1. County-specific inventory, 2017	211	1.0000	211
CHICKENS_LAYERS	MONTEREY	1. County-specific inventory, 2017	1,716	1.0000	1,716
CHICKENS_LAYERS	NAPA	1. County-specific inventory, 2017	4,769	1.0000	4,769
CHICKENS_LAYERS	NEVADA	1. County-specific inventory, 2017	3,743	1.0000	3,743
CHICKENS_LAYERS	ORANGE	1. County-specific inventory, 2017	351	1.0000	351
CHICKENS_LAYERS	PLACER	1. County-specific inventory, 2017	9,244	1.0000	9,244
CHICKENS_LAYERS	PLUMAS	1. County-specific inventory, 2017	966	1.0000	966
CHICKENS_LAYERS	RIVERSIDE	1. County-specific inventory, 2017	1,007,667	1.0000	1,007,667
CHICKENS_LAYERS	SACRAMENTO	1. County-specific inventory, 2017	7,420	1.0000	7,420
CHICKENS_LAYERS	SAN BENITO	1. County-specific inventory, 2017	3,570	1.0000	3,570
CHICKENS_LAYERS	SAN BERNARDINO	1. County-specific inventory, 2017	550,727	1.0000	550,727
CHICKENS_LAYERS	SAN DIEGO	1. County-specific inventory, 2017	1,808,815	1.0000	1,808,815
CHICKENS_LAYERS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_LAYERS	SAN JOAQUIN	1. County-specific inventory, 2017	1,454,951	1.0000	1,454,951
CHICKENS_LAYERS	SAN LUIS OBISPO	1. County-specific inventory, 2017	8,475	1.0000	8,475
CHICKENS_LAYERS	SAN MATEO	1. County-specific inventory, 2017	2,242	1.0000	2,242

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_LAYERS	SANTA BARBARA	1. County-specific inventory, 2017	5,678	1.0000	5,678
CHICKENS_LAYERS	SANTA CLARA	1. County-specific inventory, 2017	16,210	1.0000	16,210
CHICKENS_LAYERS	SANTA CRUZ	3.a # Farms (by size range) x avg inv per farm, 2017	479,561	1.5107	724,478
CHICKENS_LAYERS	SHASTA	1. County-specific inventory, 2017	6,893	1.0000	6,893
CHICKENS_LAYERS	SIERRA	1. County-specific inventory, 2017	26	1.0000	26
CHICKENS_LAYERS	SISKIYOU	1. County-specific inventory, 2017	4,251	1.0000	4,251
CHICKENS_LAYERS	SOLANO	1. County-specific inventory, 2017	26,169	1.0000	26,169
CHICKENS_LAYERS	SONOMA	1. County-specific inventory, 2017	1,612,494	1.0000	1,612,494
CHICKENS_LAYERS	STANISLAUS	1. County-specific inventory, 2017	1,853,281	1.0000	1,853,281
CHICKENS_LAYERS	SUTTER	1. County-specific inventory, 2017	627	1.0000	627
CHICKENS_LAYERS	TEHAMA	1. County-specific inventory, 2017	10,692	1.0000	10,692
CHICKENS_LAYERS	TRINITY	1. County-specific inventory, 2017	1,277	1.0000	1,277
CHICKENS_LAYERS	TULARE	1. County-specific inventory, 2017	4,754	1.0000	4,754
CHICKENS_LAYERS	TUOLUMNE	1. County-specific inventory, 2017	3,247	1.0000	3,247
CHICKENS_LAYERS	VENTURA	1. County-specific inventory, 2017	6,951	1.0000	6,951
CHICKENS_LAYERS	YOLO	1. County-specific inventory, 2017	12,324	1.0000	12,324
CHICKENS_LAYERS	YUBA	1. County-specific inventory, 2017	2,714	1.0000	2,714
CHICKENS_PULLETS	ALAMEDA	2.a Grow county inv from 5 yrs prior at state rate	35	1.5457	54
CHICKENS_PULLETS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	AMADOR	1. County-specific inventory, 2017	68	1.0000	68
CHICKENS_PULLETS	BUTTE	1. County-specific inventory, 2017	640	1.0000	640
CHICKENS_PULLETS	CALAVERAS	1. County-specific inventory, 2017	252	1.0000	252
CHICKENS_PULLETS	COLUSA	1. County-specific inventory, 2017	30	1.0000	30
CHICKENS_PULLETS	CONTRA COSTA	1. County-specific inventory, 2017	605	1.0000	605
CHICKENS_PULLETS	DEL NORTE	1. County-specific inventory, 2017	156	1.0000	156
CHICKENS_PULLETS	EL DORADO	1. County-specific inventory, 2017	640	1.0000	640
CHICKENS_PULLETS	FRESNO	2.a Grow county inv from 5 yrs prior at state rate	16,604	1.5457	25,665
CHICKENS_PULLETS	GLENN	1. County-specific inventory, 2017	277	1.0000	277
CHICKENS_PULLETS	HUMBOLDT	1. County-specific inventory, 2017	582	1.0000	582
CHICKENS_PULLETS	IMPERIAL	3.c # Farms x avg inv per farm, 2017	8,750	1.5457	13,524
CHICKENS_PULLETS	INYO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	KERN	3.c # Farms x avg inv per farm, 2017	118,121	1.5457	182,578

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_PULLETS	KINGS	1. County-specific inventory, 2017	356	1.0000	356
CHICKENS_PULLETS	LAKE	1. County-specific inventory, 2017	272	1.0000	272
CHICKENS_PULLETS	LASSEN	1. County-specific inventory, 2017	205	1.0000	205
CHICKENS_PULLETS	LOS ANGELES	1. County-specific inventory, 2017	68	1.0000	68
CHICKENS_PULLETS	MADERA	1. County-specific inventory, 2017	102	1.0000	102
CHICKENS_PULLETS	MARIN	1. County-specific inventory, 2017	2,250	1.0000	2,250
CHICKENS_PULLETS	MARIPOSA	1. County-specific inventory, 2017	213	1.0000	213
CHICKENS_PULLETS	MENDOCINO	1. County-specific inventory, 2017	502	1.0000	502
CHICKENS_PULLETS	MERCED	1. County-specific inventory, 2017	1,132,909	1.0000	1,132,909
CHICKENS_PULLETS	MODOC	1. County-specific inventory, 2017	36	1.0000	36
CHICKENS_PULLETS	MONO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	MONTEREY	1. County-specific inventory, 2017	266	1.0000	266
CHICKENS_PULLETS	NAPA	1. County-specific inventory, 2017	71	1.0000	71
CHICKENS_PULLETS	NEVADA	1. County-specific inventory, 2017	731	1.0000	731
CHICKENS_PULLETS	ORANGE	3.c # Farms x avg inv per farm, 2017	4,375	1.5457	6,762
CHICKENS_PULLETS	PLACER	1. County-specific inventory, 2017	778	1.0000	778
CHICKENS_PULLETS	PLUMAS	1. County-specific inventory, 2017	322	1.0000	322
CHICKENS_PULLETS	RIVERSIDE	1. County-specific inventory, 2017	394,089	1.0000	394,089
CHICKENS_PULLETS	SACRAMENTO	1. County-specific inventory, 2017	440	1.0000	440
CHICKENS_PULLETS	SAN BENITO	1. County-specific inventory, 2017	28	1.0000	28
CHICKENS_PULLETS	SAN BERNARDINO	1. County-specific inventory, 2017	84,167	1.0000	84,167
CHICKENS_PULLETS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	SAN JOAQUIN	1. County-specific inventory, 2017	370,855	1.0000	370,855
CHICKENS_PULLETS	SAN LUIS OBISPO	1. County-specific inventory, 2017	2,648	1.0000	2,648
CHICKENS_PULLETS	SAN MATEO	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	SANTA BARBARA	2.a Grow county inv from 5 yrs prior at state rate	1,002	1.5457	1,548
CHICKENS_PULLETS	SANTA CLARA	1. County-specific inventory, 2017	102	1.0000	102
CHICKENS_PULLETS	SANTA CRUZ	2.a Grow county inv from 5 yrs prior at state rate	375	1.5457	580
CHICKENS_PULLETS	SHASTA	1. County-specific inventory, 2017	472	1.0000	472
CHICKENS_PULLETS	SIERRA	1. County-specific inventory, 2017	0	1.0000	0
CHICKENS_PULLETS	SISKIYOU	1. County-specific inventory, 2017	78	1.0000	78
CHICKENS_PULLETS	SOLANO	1. County-specific inventory, 2017	8,632	1.0000	8,632

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
CHICKENS_PULLETS	SONOMA	2.c Grow county inv from 15 yrs prior at state rate	314,971	1.5457	486,845
CHICKENS_PULLETS	STANISLAUS	1. County-specific inventory, 2017	697,485	1.0000	697,485
CHICKENS_PULLETS	SUTTER	1. County-specific inventory, 2017	70	1.0000	70
CHICKENS_PULLETS	TEHAMA	1. County-specific inventory, 2017	185	1.0000	185
CHICKENS_PULLETS	TRINITY	1. County-specific inventory, 2017	186	1.0000	186
CHICKENS_PULLETS	TULARE	1. County-specific inventory, 2017	449	1.0000	449
CHICKENS_PULLETS	TUOLUMNE	1. County-specific inventory, 2017	150	1.0000	150
CHICKENS_PULLETS	VENTURA	1. County-specific inventory, 2017	164	1.0000	164
CHICKENS_PULLETS	YOLO	1. County-specific inventory, 2017	1,305	1.0000	1,305
CHICKENS_PULLETS	YUBA	1. County-specific inventory, 2017	421	1.0000	421
GOATS	ALAMEDA	1. County-specific inventory, 2017	1,414	1.0000	1,414
GOATS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
GOATS	AMADOR	1. County-specific inventory, 2017	527	1.0000	527
GOATS	BUTTE	1. County-specific inventory, 2017	1,516	1.0000	1,516
GOATS	CALAVERAS	1. County-specific inventory, 2017	4,132	1.0000	4,132
GOATS	COLUSA	1. County-specific inventory, 2017	31	1.0000	31
GOATS	DEL NORTE	1. County-specific inventory, 2017	580	1.0000	580
GOATS	EL DORADO	1. County-specific inventory, 2017	2,159	1.0000	2,159
GOATS	FRESNO	1. County-specific inventory, 2017	6,239	1.0000	6,239
GOATS	GLENN	1. County-specific inventory, 2017	4,273	1.0000	4,273
GOATS	HUMBOLDT	1. County-specific inventory, 2017	1,321	1.0000	1,321
GOATS	IMPERIAL	2.a Grow county inv from 5 yrs prior at state rate	289	1.2811	371
GOATS	INYO	1. County-specific inventory, 2017	25	1.0000	25
GOATS	KERN	1. County-specific inventory, 2017	1,737	1.0000	1,737
GOATS	KINGS	1. County-specific inventory, 2017	20,935	1.0000	20,935
GOATS	LAKE	1. County-specific inventory, 2017	679	1.0000	679
GOATS	LASSEN	1. County-specific inventory, 2017	330	1.0000	330
GOATS	LOS ANGELES	1. County-specific inventory, 2017	1,040	1.0000	1,040
GOATS	MADERA	1. County-specific inventory, 2017	2,228	1.0000	2,228
GOATS	MARIN	1. County-specific inventory, 2017	1,841	1.0000	1,841
GOATS	MARIPOSA	1. County-specific inventory, 2017	234	1.0000	234
GOATS	MENDOCINO	1. County-specific inventory, 2017	1,279	1.0000	1,279

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
GOATS	MERCED	1. County-specific inventory, 2017	9,830	1.0000	9,830
GOATS	MODOC	1. County-specific inventory, 2017	1,252	1.0000	1,252
GOATS	MONO	1. County-specific inventory, 2017	127	1.0000	127
GOATS	MONTEREY	1. County-specific inventory, 2017	912	1.0000	912
GOATS	NAPA	1. County-specific inventory, 2017	1,170	1.0000	1,170
GOATS	NEVADA	1. County-specific inventory, 2017	2,038	1.0000	2,038
GOATS	ORANGE	1. County-specific inventory, 2017	13	1.0000	13
GOATS	PLACER	1. County-specific inventory, 2017	2,024	1.0000	2,024
GOATS	PLUMAS	1. County-specific inventory, 2017	54	1.0000	54
GOATS	RIVERSIDE	1. County-specific inventory, 2017	2,784	1.0000	2,784
GOATS	SACRAMENTO	1. County-specific inventory, 2017	6,451	1.0000	6,451
GOATS	SAN BENITO	1. County-specific inventory, 2017	578	1.0000	578
GOATS	SAN BERNARDINO	1. County-specific inventory, 2017	1,664	1.0000	1,664
GOATS	SAN DIEGO	1. County-specific inventory, 2017	2,794	1.0000	2,794
GOATS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
GOATS	SAN JOAQUIN	1. County-specific inventory, 2017	3,647	1.0000	3,647
GOATS	SAN LUIS OBISPO	1. County-specific inventory, 2017	1,870	1.0000	1,870
GOATS	SAN MATEO	1. County-specific inventory, 2017	356	1.0000	356
GOATS	SANTA BARBARA	1. County-specific inventory, 2017	461	1.0000	461
GOATS	SANTA CLARA	1. County-specific inventory, 2017	1,029	1.0000	1,029
GOATS	SANTA CRUZ	1. County-specific inventory, 2017	175	1.0000	175
GOATS	SHASTA	1. County-specific inventory, 2017	2,796	1.0000	2,796
GOATS	SIERRA	3.c # Farms x avg inv per farm, 2017	68	1.2811	87
GOATS	SISKIYOU	1. County-specific inventory, 2017	601	1.0000	601
GOATS	SOLANO	1. County-specific inventory, 2017	2,406	1.0000	2,406
GOATS	SONOMA	1. County-specific inventory, 2017	5,849	1.0000	5,849
GOATS	STANISLAUS	1. County-specific inventory, 2017	6,835	1.0000	6,835
GOATS	SUTTER	1. County-specific inventory, 2017	1,047	1.0000	1,047
GOATS	TEHAMA	1. County-specific inventory, 2017	6,693	1.0000	6,693
GOATS	TRINITY	1. County-specific inventory, 2017	167	1.0000	167
GOATS	TULARE	1. County-specific inventory, 2017	1,313	1.0000	1,313
GOATS	TUOLUMNE	1. County-specific inventory, 2017	1,251	1.0000	1,251

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
GOATS	VENTURA	2.a Grow county inv from 5 yrs prior at state rate	307	1.2811	393
GOATS	YOLO	1. County-specific inventory, 2017	1,105	1.0000	1,105
GOATS	YUBA	1. County-specific inventory, 2017	1,537	1.0000	1,537
HOGS	ALAMEDA	2.a Grow county inv from 5 yrs prior at state rate	22	1.1837	26
HOGS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
HOGS	AMADOR	1. County-specific inventory, 2017	15	1.0000	15
HOGS	BUTTE	1. County-specific inventory, 2017	1,538	1.0000	1,538
HOGS	CALAVERAS	1. County-specific inventory, 2017	110	1.0000	110
HOGS	COLUSA	1. County-specific inventory, 2017	235	1.0000	235
HOGS	CONTRA COSTA	1. County-specific inventory, 2017	130	1.0000	130
HOGS	DEL NORTE	1. County-specific inventory, 2017	29	1.0000	29
HOGS	EL DORADO	1. County-specific inventory, 2017	427	1.0000	427
HOGS	FRESNO	1. County-specific inventory, 2017	3,200	1.0000	3,200
HOGS	GLENN	1. County-specific inventory, 2017	387	1.0000	387
HOGS	HUMBOLDT	1. County-specific inventory, 2017	370	1.0000	370
HOGS	INYO	2.a Grow county inv from 5 yrs prior at state rate	16	1.1837	19
HOGS	KERN	1. County-specific inventory, 2017	1,695	1.0000	1,695
HOGS	KINGS	1. County-specific inventory, 2017	129	1.0000	129
HOGS	LAKE	1. County-specific inventory, 2017	236	1.0000	236
HOGS	LASSEN	1. County-specific inventory, 2017	154	1.0000	154
HOGS	LOS ANGELES	1. County-specific inventory, 2017	145	1.0000	145
HOGS	MADERA	1. County-specific inventory, 2017	94	1.0000	94
HOGS	MARIN	1. County-specific inventory, 2017	409	1.0000	409
HOGS	MARIPOSA	1. County-specific inventory, 2017	54	1.0000	54
HOGS	MENDOCINO	1. County-specific inventory, 2017	378	1.0000	378
HOGS	MERCED	1. County-specific inventory, 2017	1,007	1.0000	1,007
HOGS	MODOC	1. County-specific inventory, 2017	406	1.0000	406
HOGS	MONO	1. County-specific inventory, 2017	18	1.0000	18
HOGS	MONTEREY	1. County-specific inventory, 2017	157	1.0000	157
HOGS	NAPA	1. County-specific inventory, 2017	99	1.0000	99
HOGS	NEVADA	1. County-specific inventory, 2017	513	1.0000	513
HOGS	ORANGE	1. County-specific inventory, 2017	46	1.0000	46

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
HOGS	PLACER	1. County-specific inventory, 2017	466	1.0000	466
HOGS	PLUMAS	1. County-specific inventory, 2017	21	1.0000	21
HOGS	RIVERSIDE	1. County-specific inventory, 2017	525	1.0000	525
HOGS	SACRAMENTO	1. County-specific inventory, 2017	420	1.0000	420
HOGS	SAN BERNARDINO	1. County-specific inventory, 2017	302	1.0000	302
HOGS	SAN DIEGO	1. County-specific inventory, 2017	1,804	1.0000	1,804
HOGS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
HOGS	SAN LUIS OBISPO	1. County-specific inventory, 2017	431	1.0000	431
HOGS	SAN MATEO	1. County-specific inventory, 2017	189	1.0000	189
HOGS	SANTA BARBARA	1. County-specific inventory, 2017	469	1.0000	469
HOGS	SANTA CLARA	1. County-specific inventory, 2017	413	1.0000	413
HOGS	SANTA CRUZ	2.c Grow county inv from 15 yrs prior at state rate	38	1.1837	45
HOGS	SHASTA	1. County-specific inventory, 2017	523	1.0000	523
HOGS	SIERRA	1. County-specific inventory, 2017	0	1.0000	0
HOGS	SISKIYOU	2.a Grow county inv from 5 yrs prior at state rate	791	1.1837	937
HOGS	SOLANO	1. County-specific inventory, 2017	222	1.0000	222
HOGS	SONOMA	1. County-specific inventory, 2017	1,831	1.0000	1,831
HOGS	STANISLAUS	1. County-specific inventory, 2017	10,433	1.0000	10,433
HOGS	SUTTER	1. County-specific inventory, 2017	446	1.0000	446
HOGS	TEHAMA	1. County-specific inventory, 2017	745	1.0000	745
HOGS	TRINITY	1. County-specific inventory, 2017	405	1.0000	405
HOGS	TULARE	2.d Grow county inv from 20 yrs prior at state rate	50,807	1.1837	60,141
HOGS	TUOLUMNE	1. County-specific inventory, 2017	158	1.0000	158
HOGS	VENTURA	1. County-specific inventory, 2017	181	1.0000	181
HOGS	YOLO	1. County-specific inventory, 2017	1,409	1.0000	1,409
HOGS	YUBA	1. County-specific inventory, 2017	168	1.0000	168
HORSES	ALAMEDA	1. County-specific inventory, 2017	1,158	1.0000	1,158
HORSES	AMADOR	1. County-specific inventory, 2017	759	1.0000	759
HORSES	BUTTE	1. County-specific inventory, 2017	1,626	1.0000	1,626
HORSES	CALAVERAS	1. County-specific inventory, 2017	1,046	1.0000	1,046
HORSES	COLUSA	1. County-specific inventory, 2017	588	1.0000	588
HORSES	CONTRA COSTA	1. County-specific inventory, 2017	1,539	1.0000	1,539

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
HORSES	DEL NORTE	1. County-specific inventory, 2017	110	1.0000	110
HORSES	EL DORADO	1. County-specific inventory, 2017	1,769	1.0000	1,769
HORSES	FRESNO	1. County-specific inventory, 2017	3,222	1.0000	3,222
HORSES	GLENN	1. County-specific inventory, 2017	758	1.0000	758
HORSES	HUMBOLDT	1. County-specific inventory, 2017	1,214	1.0000	1,214
HORSES	IMPERIAL	1. County-specific inventory, 2017	152	1.0000	152
HORSES	INYO	1. County-specific inventory, 2017	1,104	1.0000	1,104
HORSES	KERN	1. County-specific inventory, 2017	3,270	1.0000	3,270
HORSES	KINGS	1. County-specific inventory, 2017	822	1.0000	822
HORSES	LAKE	1. County-specific inventory, 2017	425	1.0000	425
HORSES	LASSEN	1. County-specific inventory, 2017	1,116	1.0000	1,116
HORSES	LOS ANGELES	1. County-specific inventory, 2017	5,112	1.0000	5,112
HORSES	MADERA	1. County-specific inventory, 2017	885	1.0000	885
HORSES	MARIN	1. County-specific inventory, 2017	501	1.0000	501
HORSES	MARIPOSA	1. County-specific inventory, 2017	966	1.0000	966
HORSES	MENDOCINO	1. County-specific inventory, 2017	1,068	1.0000	1,068
HORSES	MERCED	1. County-specific inventory, 2017	1,269	1.0000	1,269
HORSES	MODOC	1. County-specific inventory, 2017	901	1.0000	901
HORSES	MONO	1. County-specific inventory, 2017	166	1.0000	166
HORSES	MONTEREY	1. County-specific inventory, 2017	1,475	1.0000	1,475
HORSES	NAPA	1. County-specific inventory, 2017	328	1.0000	328
HORSES	NEVADA	1. County-specific inventory, 2017	1,465	1.0000	1,465
HORSES	ORANGE	1. County-specific inventory, 2017	866	1.0000	866
HORSES	PLACER	1. County-specific inventory, 2017	2,744	1.0000	2,744
HORSES	PLUMAS	1. County-specific inventory, 2017	553	1.0000	553
HORSES	RIVERSIDE	1. County-specific inventory, 2017	8,003	1.0000	8,003
HORSES	SACRAMENTO	1. County-specific inventory, 2017	3,119	1.0000	3,119
HORSES	SAN BENITO	1. County-specific inventory, 2017	1,256	1.0000	1,256
HORSES	SAN BERNARDINO	1. County-specific inventory, 2017	2,352	1.0000	2,352
HORSES	SAN DIEGO	1. County-specific inventory, 2017	6,141	1.0000	6,141
HORSES	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
HORSES	SAN JOAQUIN	1. County-specific inventory, 2017	2,998	1.0000	2,998

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
HORSES	SAN LUIS OBISPO	1. County-specific inventory, 2017	5,818	1.0000	5,818
HORSES	SAN MATEO	1. County-specific inventory, 2017	1,131	1.0000	1,131
HORSES	SANTA BARBARA	1. County-specific inventory, 2017	4,317	1.0000	4,317
HORSES	SANTA CLARA	1. County-specific inventory, 2017	2,105	1.0000	2,105
HORSES	SANTA CRUZ	1. County-specific inventory, 2017	782	1.0000	782
HORSES	SHASTA	1. County-specific inventory, 2017	2,063	1.0000	2,063
HORSES	SIERRA	2.a Grow county inv from 5 yrs prior at state rate	171	0.6535	111
HORSES	SISKIYOU	1. County-specific inventory, 2017	1,532	1.0000	1,532
HORSES	SOLANO	1. County-specific inventory, 2017	1,283	1.0000	1,283
HORSES	SONOMA	1. County-specific inventory, 2017	3,262	1.0000	3,262
HORSES	STANISLAUS	1. County-specific inventory, 2017	2,740	1.0000	2,740
HORSES	SUTTER	1. County-specific inventory, 2017	452	1.0000	452
HORSES	TEHAMA	1. County-specific inventory, 2017	2,283	1.0000	2,283
HORSES	TRINITY	1. County-specific inventory, 2017	174	1.0000	174
HORSES	TULARE	1. County-specific inventory, 2017	2,966	1.0000	2,966
HORSES	TUOLUMNE	1. County-specific inventory, 2017	930	1.0000	930
HORSES	VENTURA	1. County-specific inventory, 2017	2,350	1.0000	2,350
HORSES	YOLO	1. County-specific inventory, 2017	1,509	1.0000	1,509
HORSES	YUBA	1. County-specific inventory, 2017	959	1.0000	959
MULES	ALAMEDA	1. County-specific inventory, 2017	21	1.0000	21
MULES	ALPINE	3.c # Farms x avg inv per farm, 2017	3	0.6883	2
MULES	AMADOR	1. County-specific inventory, 2017	38	1.0000	38
MULES	BUTTE	1. County-specific inventory, 2017	263	1.0000	263
MULES	CALAVERAS	1. County-specific inventory, 2017	81	1.0000	81
MULES	COLUSA	1. County-specific inventory, 2017	15	1.0000	15
MULES	CONTRA COSTA	1. County-specific inventory, 2017	25	1.0000	25
MULES	DEL NORTE	1. County-specific inventory, 2017	0	1.0000	0
MULES	EL DORADO	1. County-specific inventory, 2017	134	1.0000	134
MULES	FRESNO	1. County-specific inventory, 2017	509	1.0000	509
MULES	GLENN	1. County-specific inventory, 2017	25	1.0000	25
MULES	HUMBOLDT	1. County-specific inventory, 2017	72	1.0000	72
MULES	IMPERIAL	1. County-specific inventory, 2017	0	1.0000	0

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
MULES	INYO	1. County-specific inventory, 2017	343	1.0000	343
MULES	KERN	1. County-specific inventory, 2017	263	1.0000	263
MULES	KINGS	1. County-specific inventory, 2017	91	1.0000	91
MULES	LAKE	1. County-specific inventory, 2017	23	1.0000	23
MULES	LASSEN	1. County-specific inventory, 2017	22	1.0000	22
MULES	LOS ANGELES	1. County-specific inventory, 2017	208	1.0000	208
MULES	MADERA	1. County-specific inventory, 2017	115	1.0000	115
MULES	MARIN	1. County-specific inventory, 2017	16	1.0000	16
MULES	MARIPOSA	1. County-specific inventory, 2017	57	1.0000	57
MULES	MENDOCINO	1. County-specific inventory, 2017	126	1.0000	126
MULES	MERCED	1. County-specific inventory, 2017	38	1.0000	38
MULES	MODOC	1. County-specific inventory, 2017	58	1.0000	58
MULES	MONO	1. County-specific inventory, 2017	92	1.0000	92
MULES	MONTEREY	1. County-specific inventory, 2017	40	1.0000	40
MULES	NAPA	1. County-specific inventory, 2017	42	1.0000	42
MULES	NEVADA	1. County-specific inventory, 2017	69	1.0000	69
MULES	ORANGE	3.c # Farms x avg inv per farm, 2017	6	0.6883	4
MULES	PLACER	1. County-specific inventory, 2017	181	1.0000	181
MULES	PLUMAS	1. County-specific inventory, 2017	42	1.0000	42
MULES	RIVERSIDE	1. County-specific inventory, 2017	163	1.0000	163
MULES	SACRAMENTO	1. County-specific inventory, 2017	101	1.0000	101
MULES	SAN BENITO	1. County-specific inventory, 2017	23	1.0000	23
MULES	SAN BERNARDINO	1. County-specific inventory, 2017	76	1.0000	76
MULES	SAN DIEGO	1. County-specific inventory, 2017	159	1.0000	159
MULES	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
MULES	SAN JOAQUIN	1. County-specific inventory, 2017	67	1.0000	67
MULES	SAN LUIS OBISPO	1. County-specific inventory, 2017	230	1.0000	230
MULES	SAN MATEO	1. County-specific inventory, 2017	20	1.0000	20
MULES	SANTA BARBARA	1. County-specific inventory, 2017	171	1.0000	171
MULES	SANTA CLARA	1. County-specific inventory, 2017	35	1.0000	35
MULES	SANTA CRUZ	1. County-specific inventory, 2017	24	1.0000	24
MULES	SHASTA	1. County-specific inventory, 2017	236	1.0000	236

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
MULES	SIERRA	3.c # Farms x avg inv per farm, 2017	3	0.6883	2
MULES	SISKIYOU	1. County-specific inventory, 2017	250	1.0000	250
MULES	SOLANO	1. County-specific inventory, 2017	48	1.0000	48
MULES	SONOMA	1. County-specific inventory, 2017	230	1.0000	230
MULES	STANISLAUS	1. County-specific inventory, 2017	91	1.0000	91
MULES	SUTTER	1. County-specific inventory, 2017	16	1.0000	16
MULES	TEHAMA	1. County-specific inventory, 2017	180	1.0000	180
MULES	TRINITY	1. County-specific inventory, 2017	26	1.0000	26
MULES	TULARE	1. County-specific inventory, 2017	165	1.0000	165
MULES	TUOLUMNE	1. County-specific inventory, 2017	181	1.0000	181
MULES	VENTURA	1. County-specific inventory, 2017	78	1.0000	78
MULES	YOLO	1. County-specific inventory, 2017	126	1.0000	126
MULES	YUBA	1. County-specific inventory, 2017	119	1.0000	119
RABBITS	ALAMEDA	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	AMADOR	1. County-specific inventory, 2017	180	1.0000	180
RABBITS	BUTTE	1. County-specific inventory, 2017	12	1.0000	12
RABBITS	CALAVERAS	2.a Grow county inv from 5 yrs prior at state rate	35	0.4852	17
RABBITS	COLUSA	3.c # Farms x avg inv per farm, 2017	195	0.4852	94
RABBITS	CONTRA COSTA	2.a Grow county inv from 5 yrs prior at state rate	203	0.4852	98
RABBITS	DEL NORTE	3.c # Farms x avg inv per farm, 2017	195	0.4852	94
RABBITS	EL DORADO	2.a Grow county inv from 5 yrs prior at state rate	120	0.4852	58
RABBITS	FRESNO	1. County-specific inventory, 2017	356	1.0000	356
RABBITS	GLENN	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	HUMBOLDT	1. County-specific inventory, 2017	8	1.0000	8
RABBITS	IMPERIAL	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	INYO	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	KERN	2.a Grow county inv from 5 yrs prior at state rate	43	0.4852	21
RABBITS	KINGS	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	LAKE	3.c # Farms x avg inv per farm, 2017	389	0.4852	189
RABBITS	LASSEN	1. County-specific inventory, 2017	5	1.0000	5
RABBITS	LOS ANGELES	1. County-specific inventory, 2017	97	1.0000	97

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
RABBITS	MADERA	1. County-specific inventory, 2017	32	1.0000	32
RABBITS	MARIN	2.a Grow county inv from 5 yrs prior at state rate	247	0.4852	120
RABBITS	MARIPOSA	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	MENDOCINO	1. County-specific inventory, 2017	106	1.0000	106
RABBITS	MERCED	1. County-specific inventory, 2017	4	1.0000	4
RABBITS	MODOC	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	MONO	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	MONTEREY	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	NAPA	3.c # Farms x avg inv per farm, 2017	97	0.4852	47
RABBITS	NEVADA	1. County-specific inventory, 2017	267	1.0000	267
RABBITS	ORANGE	3.c # Farms x avg inv per farm, 2017	195	0.4852	94
RABBITS	PLACER	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	PLUMAS	1. County-specific inventory, 2017	31	1.0000	31
RABBITS	RIVERSIDE	1. County-specific inventory, 2017	9,048	1.0000	9,048
RABBITS	SACRAMENTO	1. County-specific inventory, 2017	347	1.0000	347
RABBITS	SAN BENITO	2.a Grow county inv from 5 yrs prior at state rate	70	0.4852	34
RABBITS	SAN BERNARDINO	1. County-specific inventory, 2017	9	1.0000	9
RABBITS	SAN DIEGO	2.a Grow county inv from 5 yrs prior at state rate	151	0.4852	73
RABBITS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	SAN JOAQUIN	1. County-specific inventory, 2017	5,000	1.0000	5,000
RABBITS	SAN LUIS OBISPO	1. County-specific inventory, 2017	12	1.0000	12
RABBITS	SAN MATEO	3.c # Farms x avg inv per farm, 2017	195	0.4852	94
RABBITS	SANTA BARBARA	1. County-specific inventory, 2017	14	1.0000	14
RABBITS	SANTA CLARA	1. County-specific inventory, 2017	428	1.0000	428
RABBITS	SANTA CRUZ	3.c # Farms x avg inv per farm, 2017	292	0.4852	142
RABBITS	SHASTA	1. County-specific inventory, 2017	4	1.0000	4
RABBITS	SIERRA	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	SISKIYOU	1. County-specific inventory, 2017	80	1.0000	80
RABBITS	SOLANO	2.a Grow county inv from 5 yrs prior at state rate	64	0.4852	31
RABBITS	SONOMA	1. County-specific inventory, 2017	329	1.0000	329
RABBITS	STANISLAUS	2.a Grow county inv from 5 yrs prior at state rate	983	0.4852	477
RABBITS	SUTTER	1. County-specific inventory, 2017	0	1.0000	0

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
RABBITS	TEHAMA	3.c # Farms x avg inv per farm, 2017	389	0.4852	189
RABBITS	TRINITY	2.a Grow county inv from 5 yrs prior at state rate	46	0.4852	22
RABBITS	TULARE	1. County-specific inventory, 2017	18	1.0000	18
RABBITS	TUOLUMNE	1. County-specific inventory, 2017	0	1.0000	0
RABBITS	VENTURA	1. County-specific inventory, 2017	32	1.0000	32
RABBITS	YOLO	2.a Grow county inv from 5 yrs prior at state rate	13	0.4852	6
RABBITS	YUBA	1. County-specific inventory, 2017	60	1.0000	60
SHEEP	ALAMEDA	1. County-specific inventory, 2017	737	1.0000	737
SHEEP	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
SHEEP	AMADOR	1. County-specific inventory, 2017	774	1.0000	774
SHEEP	BUTTE	1. County-specific inventory, 2017	2,868	1.0000	2,868
SHEEP	CALAVERAS	1. County-specific inventory, 2017	1,443	1.0000	1,443
SHEEP	COLUSA	1. County-specific inventory, 2017	742	1.0000	742
SHEEP	CONTRA COSTA	1. County-specific inventory, 2017	2,291	1.0000	2,291
SHEEP	DEL NORTE	1. County-specific inventory, 2017	129	1.0000	129
SHEEP	EL DORADO	1. County-specific inventory, 2017	1,559	1.0000	1,559
SHEEP	FRESNO	1. County-specific inventory, 2017	30,883	1.0000	30,883
SHEEP	GLENN	1. County-specific inventory, 2017	1,961	1.0000	1,961
SHEEP	HUMBOLDT	1. County-specific inventory, 2017	5,379	1.0000	5,379
SHEEP	IMPERIAL	1. County-specific inventory, 2017	48,079	1.0000	48,079
SHEEP	INYO	1. County-specific inventory, 2017	56	1.0000	56
SHEEP	KERN	1. County-specific inventory, 2017	93,730	1.0000	93,730
SHEEP	KINGS	2.a Grow county inv from 5 yrs prior at state rate	12,443	0.5556	6,913
SHEEP	LAKE	2.a Grow county inv from 5 yrs prior at state rate	909	0.5556	505
SHEEP	LASSEN	1. County-specific inventory, 2017	5,876	1.0000	5,876
SHEEP	LOS ANGELES	1. County-specific inventory, 2017	857	1.0000	857
SHEEP	MADERA	1. County-specific inventory, 2017	992	1.0000	992
SHEEP	MARIN	1. County-specific inventory, 2017	12,469	1.0000	12,469
SHEEP	MARIPOSA	1. County-specific inventory, 2017	533	1.0000	533
SHEEP	MENDOCINO	1. County-specific inventory, 2017	7,201	1.0000	7,201
SHEEP	MERCED	1. County-specific inventory, 2017	25,235	1.0000	25,235
SHEEP	MODOC	1. County-specific inventory, 2017	7,723	1.0000	7,723

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
SHEEP	MONO	2.a Grow county inv from 5 yrs prior at state rate	269	0.5556	149
SHEEP	MONTEREY	1. County-specific inventory, 2017	2,179	1.0000	2,179
SHEEP	NAPA	1. County-specific inventory, 2017	1,010	1.0000	1,010
SHEEP	NEVADA	1. County-specific inventory, 2017	1,869	1.0000	1,869
SHEEP	ORANGE	1. County-specific inventory, 2017	121	1.0000	121
SHEEP	PLACER	1. County-specific inventory, 2017	4,271	1.0000	4,271
SHEEP	PLUMAS	1. County-specific inventory, 2017	351	1.0000	351
SHEEP	RIVERSIDE	1. County-specific inventory, 2017	7,681	1.0000	7,681
SHEEP	SACRAMENTO	1. County-specific inventory, 2017	5,776	1.0000	5,776
SHEEP	SAN BENITO	1. County-specific inventory, 2017	1,241	1.0000	1,241
SHEEP	SAN BERNARDINO	1. County-specific inventory, 2017	1,001	1.0000	1,001
SHEEP	SAN DIEGO	1. County-specific inventory, 2017	1,928	1.0000	1,928
SHEEP	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
SHEEP	SAN JOAQUIN	1. County-specific inventory, 2017	21,741	1.0000	21,741
SHEEP	SAN LUIS OBISPO	1. County-specific inventory, 2017	15,581	1.0000	15,581
SHEEP	SAN MATEO	1. County-specific inventory, 2017	277	1.0000	277
SHEEP	SANTA BARBARA	1. County-specific inventory, 2017	277	1.0000	277
SHEEP	SANTA CLARA	1. County-specific inventory, 2017	1,286	1.0000	1,286
SHEEP	SANTA CRUZ	1. County-specific inventory, 2017	138	1.0000	138
SHEEP	SHASTA	1. County-specific inventory, 2017	1,652	1.0000	1,652
SHEEP	SIERRA	1. County-specific inventory, 2017	500	1.0000	500
SHEEP	SISKIYOU	1. County-specific inventory, 2017	3,957	1.0000	3,957
SHEEP	SOLANO	1. County-specific inventory, 2017	42,991	1.0000	42,991
SHEEP	SONOMA	1. County-specific inventory, 2017	21,842	1.0000	21,842
SHEEP	STANISLAUS	1. County-specific inventory, 2017	4,652	1.0000	4,652
SHEEP	SUTTER	1. County-specific inventory, 2017	4,880	1.0000	4,880
SHEEP	TEHAMA	1. County-specific inventory, 2017	5,084	1.0000	5,084
SHEEP	TRINITY	1. County-specific inventory, 2017	357	1.0000	357
SHEEP	TULARE	2.a Grow county inv from 5 yrs prior at state rate	66,460	0.5556	36,922
SHEEP	TUOLUMNE	1. County-specific inventory, 2017	581	1.0000	581
SHEEP	VENTURA	1. County-specific inventory, 2017	935	1.0000	935
SHEEP	YOLO	1. County-specific inventory, 2017	23,149	1.0000	23,149

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
SHEEP	YUBA	1. County-specific inventory, 2017	1,977	1.0000	1,977
TURKEYS	ALAMEDA	2.d Grow county inv from 20 yrs prior at state rate	5	0.3589	2
TURKEYS	ALPINE	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	AMADOR	1. County-specific inventory, 2017	67	1.0000	67
TURKEYS	BUTTE	1. County-specific inventory, 2017	157	1.0000	157
TURKEYS	CALAVERAS	1. County-specific inventory, 2017	87,108	1.0000	87,108
TURKEYS	COLUSA	1. County-specific inventory, 2017	108	1.0000	108
TURKEYS	CONTRA COSTA	1. County-specific inventory, 2017	114	1.0000	114
TURKEYS	DEL NORTE	2.a Grow county inv from 5 yrs prior at state rate	90	0.3589	32
TURKEYS	EL DORADO	1. County-specific inventory, 2017	288	1.0000	288
TURKEYS	FRESNO	1. County-specific inventory, 2017	1,080,017	1.0000	1,080,017
TURKEYS	GLENN	1. County-specific inventory, 2017	16	1.0000	16
TURKEYS	HUMBOLDT	1. County-specific inventory, 2017	77	1.0000	77
TURKEYS	IMPERIAL	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	KERN	1. County-specific inventory, 2017	60	1.0000	60
TURKEYS	KINGS	1. County-specific inventory, 2017	257,406	1.0000	257,406
TURKEYS	LAKE	2.a Grow county inv from 5 yrs prior at state rate	61	0.3589	22
TURKEYS	LASSEN	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	LOS ANGELES	1. County-specific inventory, 2017	49	1.0000	49
TURKEYS	MADERA	1. County-specific inventory, 2017	170,012	1.0000	170,012
TURKEYS	MARIN	1. County-specific inventory, 2017	550	1.0000	550
TURKEYS	MARIPOSA	1. County-specific inventory, 2017	28	1.0000	28
TURKEYS	MENDOCINO	1. County-specific inventory, 2017	16	1.0000	16
TURKEYS	MERCED	1. County-specific inventory, 2017	817,473	1.0000	817,473
TURKEYS	MODOC	1. County-specific inventory, 2017	52	1.0000	52
TURKEYS	MONO	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	MONTEREY	1. County-specific inventory, 2017	37	1.0000	37
TURKEYS	NAPA	1. County-specific inventory, 2017	116	1.0000	116
TURKEYS	NEVADA	1. County-specific inventory, 2017	212	1.0000	212
TURKEYS	ORANGE	2.c Grow county inv from 15 yrs prior at state rate	34	0.3589	12
TURKEYS	PLACER	1. County-specific inventory, 2017	296	1.0000	296
TURKEYS	PLUMAS	1. County-specific inventory, 2017	10	1.0000	10

Table 7 (cont.): Inventory by County-Animal Type

Animal Type	County	Methodology	Inventory Before Adjustment [A]	Adjustment Factor [B]	Inventory [A] x [B]
TURKEYS	RIVERSIDE	1. County-specific inventory, 2017	336	1.0000	336
TURKEYS	SACRAMENTO	2.d Grow county inv from 20 yrs prior at state rate	335,719	0.3589	120,480
TURKEYS	SAN BENITO	2.d Grow county inv from 20 yrs prior at state rate	37,207	0.3589	13,352
TURKEYS	SAN BERNARDINO	1. County-specific inventory, 2017	229,031	1.0000	229,031
TURKEYS	SAN DIEGO	1. County-specific inventory, 2017	356	1.0000	356
TURKEYS	SAN FRANCISCO	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	SAN JOAQUIN	1. County-specific inventory, 2017	142	1.0000	142
TURKEYS	SAN LUIS OBISPO	1. County-specific inventory, 2017	276	1.0000	276
TURKEYS	SAN MATEO	2.c Grow county inv from 15 yrs prior at state rate	4	0.3589	2
TURKEYS	SANTA BARBARA	1. County-specific inventory, 2017	70	1.0000	70
TURKEYS	SANTA CLARA	2.a Grow county inv from 5 yrs prior at state rate	25	0.3589	9
TURKEYS	SANTA CRUZ	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	SHASTA	1. County-specific inventory, 2017	308	1.0000	308
TURKEYS	SIERRA	1. County-specific inventory, 2017	0	1.0000	0
TURKEYS	SISKIYOU	1. County-specific inventory, 2017	21	1.0000	21
TURKEYS	SOLANO	1. County-specific inventory, 2017	60	1.0000	60
TURKEYS	STANISLAUS	1. County-specific inventory, 2017	775,904	1.0000	775,904
TURKEYS	SUTTER	1. County-specific inventory, 2017	56	1.0000	56
TURKEYS	TEHAMA	1. County-specific inventory, 2017	70	1.0000	70
TURKEYS	TRINITY	1. County-specific inventory, 2017	166	1.0000	166
TURKEYS	TULARE	2.c Grow county inv from 15 yrs prior at state rate	150,330	0.3589	53,949
TURKEYS	TUOLUMNE	2.c Grow county inv from 15 yrs prior at state rate	409,927	0.3589	147,112
TURKEYS	VENTURA	1. County-specific inventory, 2017	168	1.0000	168
TURKEYS	YOLO	1. County-specific inventory, 2017	194	1.0000	194
TURKEYS	YUBA	1. County-specific inventory, 2017	84	1.0000	84

Notes: (1) Adjustment factor set to value such that total inventory across all 58 counties sums to statewide inventory according to 2017 Census. (2) Adjustment factors only applied to counties where 2017 county-specific inventory data was withheld. (3) For counties that relied on animals sold, see Table 8.

Table 8: Animals Sold by County

Animal Type	County	# Sold Before Adjustment [A]	Adjustment Factor [B]	# Sold [A] x [B]
CHICKENS_BROILERS	MERCED	48,070,074	0.9973	47,939,052
CHICKENS_BROILERS	PLACER	18,856,896	0.9973	18,805,499
CHICKENS_BROILERS	SAN BENITO	32,000	0.9973	31,913
CHICKENS_BROILERS	SAN MATEO	31,000	0.9973	30,916
CHICKENS_BROILERS	SANTA CRUZ	33,000	0.9973	32,910

Notes: (1) Adjustment factor set to value such that total sold across all 58 counties sums to statewide total sold according to 2017 Census. (2) Table is limited to counties for which this method is relied upon. Broiler inventory for remaining counties is reported in Table 7.

Table 9: County Splits to County-Air Basin-District

County	Air Basin	District	CHICKENS BROILERS	GOATS	HOGS	HORSES	CHICKENS LAYERS	CHICKENS PULLETS	SHEEP	TURKEYS	MULES	RABBITS
EL DORADO	LAKE TAHOE	EL DORADO COUNTY	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%
EL DORADO	MOUNTAIN COUNTIES	EL DORADO COUNTY	88%	88%	88%	88%	88%	88%	88%	88%	88%	88%
KERN	MOJAVE DESERT	EASTERN KERN	0%	10%	0%	10%	0%	0%	10%	0%	10%	10%
KERN	SAN JOAQUIN VALLEY	SAN JOAQUIN VALLEY	100%	90%	100%	90%	100%	100%	90%	100%	90%	90%
LOS ANGELES	MOJAVE DESERT	ANTELOPE VALLEY	100%	33%	100%	33%	100%	100%	33%	100%	33%	33%
LOS ANGELES	SOUTH COAST	SOUTH COAST	0%	67%	0%	67%	0%	0%	67%	0%	67%	67%
PLACER	LAKE TAHOE	PLACER COUNTY	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PLACER	MOUNTAIN COUNTIES	PLACER COUNTY	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PLACER	SACRAMENTO VALLEY	PLACER COUNTY	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
RIVERSIDE	MOJAVE DESERT	MOJAVE DESERT	24%	17%	24%	17%	0%	0%	17%	24%	17%	0%
RIVERSIDE	MOJAVE DESERT	SOUTH COAST	35%	25%	35%	25%	0%	0%	25%	35%	25%	0%
RIVERSIDE	SOUTH COAST	SOUTH COAST	0%	28%	0%	28%	100%	100%	28%	0%	28%	100%
RIVERSIDE	SALTON SEA	SOUTH COAST	41%	30%	41%	30%	0%	0%	30%	41%	30%	0%
SAN BERNARDINO	MOJAVE DESERT	MOJAVE DESERT	100%	94%	0%	94%	45%	45%	94%	100%	94%	94%
SAN BERNARDINO	SOUTH COAST	SOUTH COAST	0%	6%	100%	6%	55%	55%	6%	0%	6%	6%
SOLANO	SAN FRANCISCO BAY AREA	BAY AREA	48%	48%	48%	48%	48%	48%	48%	48%	48%	48%
SOLANO	SACRAMENTO VALLEY	YOLO-SOLANO	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%
SONOMA	NORTH COAST	NORTHERN SONOMA COUNTY	61%	61%	61%	61%	61%	61%	61%	61%	61%	61%
SONOMA	SAN FRANCISCO BAY AREA	BAY AREA	39%	39%	39%	39%	39%	39%	39%	39%	39%	39%

Table 10: Emission Factors

Animal Type	Pollutant	Emission Factor (lb/head-yr) (point-in-time)	Emission Factor (lb/head-yr) (per sold)	Source
CHICKENS - BROILERS	NH3	0.096	0.0143	CDFA (2005)
CHICKENS - BROILERS	ROG	0.192	0.029	Dickson (1988). Assume ROG=TOG*8%. Assume head sold=point-in-time/6.7.
CHICKENS - BROILERS	TOG	2.4	0.3582	Dickson (1988). Assume head sold=point-in-time/6.7.
CHICKENS - LAYERS AND PULLETS	NH3	0.192		CDFA (2005). Per Villalvazo (2010), assume 2x broilers.
CHICKENS - LAYERS AND PULLETS	ROG	0.192		Dickson (1988). Assume ROG=TOG*8%.
CHICKENS - LAYERS AND PULLETS	TOG	2.4		Dickson (1988)
GOATS	NH3	7.43		Battye (1994). Assume same as sheep.
GOATS	ROG	0.96		Dickson (1988). Assume same as sheep. Assume ROG=TOG*8%.
GOATS	TOG	12		Dickson (1988). Assume same as sheep.
HOGS	NH3	20.3		Battye (1994)
HOGS	ROG	4.6		Dickson (1988). Assume ROG=TOG*8%.
HOGS	TOG	58		Dickson (1988)
HORSES	NH3	26.9		Battye (1994)
HORSES	ROG	6.7		Dickson (1988). Assume ROG=TOG*8%.
HORSES	TOG	84		Dickson (1988)
MULES	NH3	26.9		Battye (1994). Assume same as horses.
MULES	ROG	6.7		Dickson (1988). Assume same as horses. Assume ROG=TOG*8%.
MULES	TOG	84		Dickson (1988). Assume same as horses.
RABBITS	NH3	0.37		Gharib and Cass (1984)
RABBITS	ROG	0		Not Available
RABBITS	TOG	0		Not Available

Table 10 (cont.): Emission Factors

Animal Type	Pollutant	Emission Factor (lb/head-yr) (point-in-time)	Emission Factor (lb/head-yr) (per sold)	Source
SHEEP	NH3	7.43		Battye (1994)
SHEEP	ROG	0.96		Dickson (1988). Assume ROG=TOG*8%.
SHEEP	TOG	12		Dickson (1988)
TURKEYS	NH3	1.89		Battye (1994)
TURKEYS	ROG	0.192		Dickson (1988). Assume ROG=TOG*8%.
TURKEYS	TOG	2.4		Dickson (1988)

Note: (1) The broilers per-head sold ROG and TOG emissions are calculated by assuming a 'residency factor' of 6.7, which represents the proportion of the year that a single bird spends on a farm before being sold.

Table 11: Control Factors

EIC	District	County	Pollutant	Control Factor
62061802620102	SAC		TOG	0.9852
62061802620104	SAC		TOG	0.9852
62061802620104	SJU		NH3	0.9843
62061802620104	SJU		TOG	0.7605
62061802620105	SAC		TOG	0.9852
62061802620105	SC	RIVERSIDE	NH3	0.9747
62061802620105	SC	RIVERSIDE	TOG	0.9747
62061802620105	SC	SAN BERNARDINO	NH3	0.9747
62061802620105	SC	SAN BERNARDINO	TOG	0.9747
62061802620105	SJU		NH3	0.8137
62061802620105	SJU		TOG	0.7862
62061802620106	SAC		TOG	0.9852
62061802620106	SJU		NH3	0.8410
62061802620106	SJU		TOG	0.7348
62061802620107	SAC		TOG	0.9852
62061802620107	SJU		NH3	0.7924
62061802620107	SJU		TOG	0.5079
62061802620108	SAC		TOG	0.9852
62061802620109	SAC		TOG	0.9852
62061802620110	SAC		TOG	0.9852

Notes: (1) Control factors reflect any reduction in emissions since 2000 according to the latest CEPAM forecasting model. (2) Control factors applied to all counties within the District unless otherwise noted. (3) TOG control factors are also applied to ROG.

Table 12: Hours per Day Temporal Profiles

EIC	District	Hours Per Day Code	Code Description
62061802620104	South Coast AQMD	82	ACTIVITY FROM 10 AM TO 10 PM RISING TO PEAK AT 3; NO ACTIVITY REMAINDER OF DAY
	All Others	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
62061802620105	Ventura APCD	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
	All Others	82	ACTIVITY FROM 10 AM TO 10 PM RISING TO PEAK AT 3; NO ACTIVITY REMAINDER OF DAY
62061802620106	South Coast AQMD	82	ACTIVITY FROM 10 AM TO 10 PM RISING TO PEAK AT 3; NO ACTIVITY REMAINDER OF DAY
	All Others	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
62061802620107	Ventura APCD	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
	All Others	83	ACTIVITY FROM 9 AM TO 12 AM RISING TO PEAK AT 4; MIN ACTIVITY REMAINDER OF DAY
62061802620108	South Coast AQMD	81	MAX ACTIVITY 9 AM TO 3 PM; HALF THE ACTIVITY REMAINING HOURS
	All Others	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
62061802620109	South Coast AQMD	81	MAX ACTIVITY 9 AM TO 3 PM; HALF THE ACTIVITY REMAINING HOURS
	All Others	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY
62061802620110	South Coast AQMD	81	MAX ACTIVITY 9 AM TO 3 PM; HALF THE ACTIVITY REMAINING HOURS
	All Others	24	24 HOURS PER DAY - UNIFORM ACTIVITY DURING THE DAY

Table 13: Ammonia Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
NH3	GBV	GBU	ALPINE	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
NH3	GBV	GBU	INYO	0.0	0.0	0.0	0.1	0.2	14.8	4.6	0.0	0.2	0.0
NH3	GBV	GBU	MONO	0.0	0.0	0.0	0.5	0.2	2.2	1.2	0.0	0.6	0.0
NH3	LC	LAK	LAKE	0.0	0.3	0.0	2.5	2.4	5.7	0.3	0.0	1.9	0.0
NH3	LT	ED	EL DORADO	0.0	0.1	0.0	1.0	0.5	2.9	0.2	0.0	0.7	0.0
NH3	LT	PLA	PLACER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NH3	MC	AMA	AMADOR	0.0	0.1	0.0	2.0	0.2	10.2	0.5	0.0	2.9	0.1
NH3	MC	CAL	CALAVERAS	0.0	0.2	0.0	15.4	1.1	14.1	1.1	0.0	5.4	82.3
NH3	MC	ED	EL DORADO	0.0	0.5	0.1	7.1	3.8	20.9	1.6	0.0	5.1	0.2
NH3	MC	MPA	MARIPOSA	0.0	0.2	0.0	0.9	0.5	13.0	0.8	0.0	2.0	0.0
NH3	MC	NSI	NEVADA	0.0	0.4	0.1	7.6	5.2	19.7	0.9	0.0	6.9	0.2
NH3	MC	NSI	PLUMAS	0.0	0.1	0.0	0.2	0.2	7.4	0.6	0.0	1.3	0.0
NH3	MC	NSI	SIERRA	0.0	0.0	0.0	0.3	0.0	1.5	0.0	0.0	1.9	0.0
NH3	MC	PLA	PLACER	6.7	0.0	0.0	0.4	0.2	1.8	0.1	0.0	0.8	0.0
NH3	MC	TUO	TUOLUMNE	0.0	0.3	0.0	4.6	1.6	12.5	2.4	0.0	2.2	139.0
NH3	MD	AV	LOS ANGELES	0.0	0.3	0.0	1.3	1.5	22.7	0.9	0.0	1.1	0.0
NH3	MD	KER	KERN	0.0	0.0	0.0	0.6	0.0	4.4	0.4	0.0	34.8	0.0
NH3	MD	MOJ	RIVERSIDE	0.0	0.0	0.0	1.8	1.3	18.3	0.4	0.0	4.9	0.1
NH3	MD	MOJ	SAN BERNARDINO	0.1	23.8	3.6	5.8	0.0	29.7	1.0	0.0	3.5	216.4
NH3	MD	SC	RIVERSIDE	0.0	0.0	0.0	2.6	1.9	26.9	0.5	0.0	7.1	0.1
NH3	NC	MEN	MENDOCINO	0.0	0.4	0.0	4.8	3.8	14.4	1.7	0.0	26.8	0.0
NH3	NC	NCU	DEL NORTE	0.0	0.0	0.0	2.2	0.3	1.5	0.0	0.0	0.5	0.0
NH3	NC	NCU	HUMBOLDT	0.1	0.4	0.1	4.9	3.8	16.3	1.0	0.0	20.0	0.1
NH3	NC	NCU	TRINITY	0.0	0.1	0.0	0.6	4.1	2.3	0.3	0.0	1.3	0.2
NH3	NC	NS	SONOMA	95.4	94.4	28.5	13.3	11.3	26.8	1.9	0.0	49.5	0.0
NH3	NCC	MBU	MONTEREY	0.0	0.2	0.0	3.4	1.6	19.8	0.5	0.0	8.1	0.0
NH3	NCC	MBU	SAN BENITO	0.2	0.3	0.0	2.1	0.1	16.9	0.3	0.0	4.6	12.6
NH3	NCC	MBU	SANTA CRUZ	0.2	69.5	0.1	0.7	0.5	10.5	0.3	0.0	0.5	0.0
NH3	NEP	LAS	LASSEN	0.0	0.1	0.0	1.2	1.6	15.0	0.3	0.0	21.8	0.0
NH3	NEP	MOD	MODOC	0.0	0.1	0.0	4.7	4.1	12.1	0.8	0.0	28.7	0.0
NH3	NEP	SIS	SISKIYOU	0.2	0.4	0.0	2.2	9.5	20.6	3.4	0.0	14.7	0.0
NH3	SC	SC	LOS ANGELES	0.0	0.0	0.0	2.6	0.0	46.1	1.9	0.0	2.1	0.0
NH3	SC	SC	ORANGE	0.0	0.0	0.6	0.0	0.5	11.6	0.1	0.0	0.4	0.0
NH3	SC	SC	RIVERSIDE	0.0	94.3	36.9	2.9	0.0	30.1	0.6	1.7	8.0	0.0
NH3	SC	SC	SAN BERNARDINO	0.0	28.3	4.3	0.4	3.1	1.9	0.1	0.0	0.2	0.0

Table 13 (cont.): Ammonia Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
NH3	SCC	SLO	SAN LUIS OBISPO	0.0	0.8	0.3	6.9	4.4	78.3	3.1	0.0	57.9	0.3
NH3	SCC	VEN	VENTURA	0.0	0.7	0.0	1.5	1.8	31.6	1.0	0.0	3.5	0.2
NH3	SD	SD	SAN DIEGO	7.0	173.6	102.0	10.4	18.3	82.6	2.1	0.0	7.2	0.3
NH3	SF	BA	ALAMEDA	0.0	0.1	0.0	5.3	0.3	15.6	0.3	0.0	2.7	0.0
NH3	SF	BA	CONTRA COSTA	0.0	0.3	0.1	33.9	1.3	20.7	0.3	0.0	8.5	0.1
NH3	SF	BA	MARIN	0.1	2.2	0.2	6.8	4.2	6.7	0.2	0.0	46.3	0.5
NH3	SF	BA	NAPA	0.0	0.5	0.0	4.3	1.0	4.4	0.6	0.0	3.8	0.1
NH3	SF	BA	SAN FRANCISCO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NH3	SF	BA	SAN MATEO	0.2	0.2	0.0	1.3	1.9	15.2	0.3	0.0	1.0	0.0
NH3	SF	BA	SANTA CLARA	0.0	1.6	0.0	3.8	4.2	28.3	0.5	0.1	4.8	0.0
NH3	SF	BA	SOLANO	0.1	1.2	0.4	4.3	1.1	8.3	0.3	0.0	76.7	0.0
NH3	SF	BA	SONOMA	61.0	60.4	18.2	8.5	7.2	17.1	1.2	0.0	31.6	0.0
NH3	SJV	SJU	FRESNO	1,012.7	0.6	2.0	23.2	25.7	43.3	6.8	0.1	114.7	858.4
NH3	SJV	SJU	KERN	0.0	112.9	14.3	5.8	13.6	39.6	3.2	0.0	313.4	0.0
NH3	SJV	SJU	KINGS	112.5	0.1	0.0	77.8	1.0	11.1	1.2	0.0	25.7	204.6
NH3	SJV	SJU	MADERA	10.2	0.2	0.0	8.3	0.8	11.9	1.5	0.0	3.7	135.1
NH3	SJV	SJU	MERCED	337.4	274.7	88.5	36.5	8.1	17.1	0.5	0.0	93.7	649.7
NH3	SJV	SJU	SAN JOAQUIN	19.1	113.6	29.0	13.5	13.9	40.3	0.9	0.9	80.8	0.1
NH3	SJV	SJU	STANISLAUS	295.6	144.8	54.5	25.4	83.9	36.9	1.2	0.1	17.3	616.7
NH3	SJV	SJU	TULARE	172.2	0.4	0.0	4.9	483.7	39.9	2.2	0.0	137.2	42.9
NH3	SS	IMP	IMPERIAL	0.0	0.0	1.3	1.4	0.1	2.0	0.0	0.0	178.6	0.0
NH3	SS	SC	RIVERSIDE	0.0	0.0	0.0	3.1	2.2	32.3	0.7	0.0	8.6	0.1
NH3	SV	BUT	BUTTE	0.1	0.5	0.1	5.6	15.6	21.9	3.5	0.0	10.7	0.1
NH3	SV	COL	COLUSA	0.0	0.1	0.0	0.1	2.4	7.9	0.2	0.0	2.8	0.1
NH3	SV	FR	SUTTER	0.0	0.1	0.0	3.9	4.5	6.1	0.2	0.0	18.1	0.1
NH3	SV	FR	YUBA	0.0	0.3	0.0	5.7	1.7	12.9	1.6	0.0	7.3	0.1
NH3	SV	GLE	GLENN	0.0	0.2	0.0	15.9	3.9	10.2	0.3	0.0	7.3	0.0
NH3	SV	PLA	PLACER	127.7	0.8	0.1	7.1	4.5	35.1	2.3	0.0	15.1	0.3
NH3	SV	SAC	SACRAMENTO	45.7	0.7	0.0	24.0	4.3	42.0	1.4	0.1	21.5	113.9
NH3	SV	SHA	SHASTA	0.0	0.7	0.0	10.4	5.3	27.7	3.2	0.0	6.1	0.3
NH3	SV	TEH	TEHAMA	0.5	1.0	0.0	24.9	7.6	30.7	2.4	0.0	18.9	0.1
NH3	SV	YS	SOLANO	0.1	1.3	0.4	4.6	1.2	9.0	0.3	0.0	83.1	0.0
NH3	SV	YS	YOLO	0.2	1.2	0.1	4.1	14.3	20.3	1.7	0.0	86.0	0.2

Table 14: TOG Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
TOG	GBV	GBU	ALPINE	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
TOG	GBV	GBU	INYO	0.2	0.4	0.0	0.2	0.6	46.4	14.4	0.0	0.3	0.0
TOG	GBV	GBU	MONO	0.0	0.3	0.0	0.8	0.5	7.0	3.9	0.0	0.9	0.0
TOG	LC	LAK	LAKE	0.1	3.3	0.3	4.1	6.8	17.9	1.0	0.0	3.0	0.0
TOG	LT	ED	EL DORADO	0.1	0.9	0.1	1.6	1.5	8.9	0.7	0.0	1.1	0.0
TOG	LT	PLA	PLACER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOG	MC	AMA	AMADOR	0.1	1.8	0.1	3.2	0.4	31.9	1.6	0.0	4.6	0.1
TOG	MC	CAL	CALAVERAS	0.0	2.9	0.3	24.8	3.2	43.9	3.4	0.0	8.7	104.5
TOG	MC	ED	EL DORADO	1.0	6.8	0.7	11.4	10.9	65.4	5.0	0.0	8.2	0.3
TOG	MC	MPA	MARIPOSA	0.0	2.3	0.3	1.4	1.6	40.6	2.4	0.0	3.2	0.0
TOG	MC	NSI	NEVADA	0.9	4.5	0.9	12.2	14.9	61.5	2.9	0.0	11.2	0.3
TOG	MC	NSI	PLUMAS	0.3	1.2	0.4	0.3	0.6	23.2	1.8	0.0	2.1	0.0
TOG	MC	NSI	SIERRA	0.0	0.0	0.0	0.5	0.0	4.7	0.1	0.0	3.0	0.0
TOG	MC	PLA	PLACER	168.4	0.6	0.0	0.6	0.7	5.8	0.4	0.0	1.3	0.0
TOG	MC	TUO	TUOLUMNE	0.9	3.9	0.2	7.5	4.6	39.1	7.6	0.0	3.5	176.5
TOG	MD	AV	LOS ANGELES	0.3	3.6	0.1	2.1	4.2	70.9	2.9	0.0	1.7	0.1
TOG	MD	KER	KERN	0.0	0.0	0.0	1.0	0.0	13.7	1.1	0.0	56.2	0.0
TOG	MD	MOJ	RIVERSIDE	0.4	0.0	0.0	2.8	3.7	57.1	1.2	0.0	7.8	0.1
TOG	MD	MOJ	SAN BERNARDINO	1.5	297.4	45.5	9.4	0.0	92.9	3.0	0.0	5.6	274.8
TOG	MD	SC	RIVERSIDE	0.6	0.0	0.0	4.2	5.3	84.0	1.7	0.0	11.5	0.1
TOG	NC	MEN	MENDOCINO	0.2	4.6	0.6	7.7	11.0	44.9	5.3	0.0	43.2	0.0
TOG	NC	NCU	DEL NORTE	0.5	0.5	0.2	3.5	0.8	4.6	0.0	0.0	0.8	0.0
TOG	NC	NCU	HUMBOLDT	1.5	5.0	0.7	7.9	10.7	51.0	3.0	0.0	32.3	0.1
TOG	NC	NCU	TRINITY	1.1	1.5	0.2	1.0	11.7	7.3	1.1	0.0	2.1	0.2
TOG	NC	NS	SONOMA	2,384.4	1,180.3	356.4	21.4	32.4	83.6	5.9	0.0	79.9	0.0
TOG	NCC	MBU	MONTEREY	0.3	2.1	0.3	5.5	4.6	62.0	1.7	0.0	13.1	0.0
TOG	NCC	MBU	SAN BENITO	5.7	4.3	0.0	3.5	0.4	52.8	1.0	0.0	7.4	16.0
TOG	NCC	MBU	SANTA CRUZ	5.9	869.4	0.7	1.1	1.3	32.8	1.0	0.0	0.8	0.0
TOG	NEP	LAS	LASSEN	0.0	1.0	0.2	2.0	4.5	46.9	0.9	0.0	35.3	0.0
TOG	NEP	MOD	MODOC	0.2	1.4	0.0	7.5	11.8	37.8	2.4	0.0	46.3	0.1
TOG	NEP	SIS	SISKIYOU	3.8	5.1	0.1	3.6	27.2	64.3	10.5	0.0	23.7	0.0
TOG	SC	SC	LOS ANGELES	0.0	0.0	0.0	4.2	0.0	143.9	5.9	0.0	3.4	0.0
TOG	SC	SC	ORANGE	0.0	0.4	8.1	0.1	1.3	36.4	0.2	0.0	0.7	0.0
TOG	SC	SC	RIVERSIDE	0.0	1,178.6	460.9	4.7	0.0	94.1	1.9	0.0	12.9	0.0
TOG	SC	SC	SAN BERNARDINO	0.0	354.3	54.1	0.6	8.8	5.9	0.2	0.0	0.4	0.0

Table 14 (cont.): TOG Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
TOG	SCC	SLO	SAN LUIS OBISPO	0.7	10.2	3.2	11.2	12.5	244.4	9.7	0.0	93.5	0.3
TOG	SCC	VEN	VENTURA	1.1	8.3	0.2	2.4	5.2	98.7	3.3	0.0	5.6	0.2
TOG	SD	SD	SAN DIEGO	175.7	2,170.6	1,274.9	16.8	52.3	257.9	6.7	0.0	11.6	0.4
TOG	SF	BA	ALAMEDA	0.2	1.6	0.1	8.5	0.8	48.6	0.9	0.0	4.4	0.0
TOG	SF	BA	CONTRA COSTA	0.2	3.8	0.7	54.8	3.8	64.6	1.1	0.0	13.7	0.1
TOG	SF	BA	MARIN	1.6	28.1	2.7	11.0	11.9	21.0	0.7	0.0	74.8	0.7
TOG	SF	BA	NAPA	0.2	5.7	0.1	7.0	2.9	13.8	1.8	0.0	6.1	0.1
TOG	SF	BA	SAN FRANCISCO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOG	SF	BA	SAN MATEO	5.5	2.7	0.0	2.1	5.5	47.5	0.8	0.0	1.7	0.0
TOG	SF	BA	SANTA CLARA	0.9	19.5	0.1	6.2	12.0	88.4	1.5	0.0	7.7	0.0
TOG	SF	BA	SOLANO	2.2	15.1	5.0	6.9	3.1	25.9	1.0	0.0	123.8	0.0
TOG	SF	BA	SONOMA	1,524.4	754.6	227.8	13.7	20.7	53.4	3.8	0.0	51.1	0.0
TOG	SJV	SJU	FRESNO	19,560.0	6.7	24.2	37.4	47.1	135.3	21.4	0.0	185.3	952.3
TOG	SJV	SJU	KERN	0.1	1,363.9	172.2	9.4	25.0	123.6	9.9	0.0	506.1	0.1
TOG	SJV	SJU	KINGS	2,173.9	0.9	0.3	125.6	1.9	34.5	3.8	0.0	41.5	227.0
TOG	SJV	SJU	MADERA	197.6	1.9	0.1	13.4	1.4	37.2	4.8	0.0	6.0	149.9
TOG	SJV	SJU	MERCED	6,529.2	3,317.9	1,068.8	59.0	14.8	53.3	1.6	0.0	151.4	720.8
TOG	SJV	SJU	SAN JOAQUIN	368.2	1,372.6	349.9	21.9	25.4	125.9	2.8	0.0	130.4	0.1
TOG	SJV	SJU	STANISLAUS	5,710.5	1,748.4	658.0	41.0	153.7	115.1	3.8	0.0	27.9	684.1
TOG	SJV	SJU	TULARE	3,326.9	4.5	0.4	7.9	885.8	124.6	6.9	0.0	221.5	47.6
TOG	SS	IMP	IMPERIAL	0.0	0.6	16.2	2.2	0.2	6.4	0.0	0.0	288.5	0.0
TOG	SS	SC	RIVERSIDE	0.8	0.0	0.0	5.0	6.2	100.8	2.1	0.0	13.8	0.2
TOG	SV	BUT	BUTTE	2.6	6.7	0.8	9.1	44.6	68.3	11.0	0.0	17.2	0.2
TOG	SV	COL	COLUSA	0.0	0.7	0.0	0.2	6.8	24.7	0.6	0.0	4.5	0.1
TOG	SV	FR	SUTTER	0.2	0.8	0.1	6.3	12.9	19.0	0.7	0.0	29.3	0.1
TOG	SV	FR	YUBA	0.9	3.3	0.5	9.2	4.9	40.3	5.0	0.0	11.9	0.1
TOG	SV	GLE	GLENN	0.2	2.3	0.3	25.6	11.2	31.8	1.1	0.0	11.8	0.0
TOG	SV	PLA	PLACER	3,199.7	10.5	0.9	11.5	12.8	109.5	7.2	0.0	24.3	0.3
TOG	SV	SAC	SACRAMENTO	1,126.3	8.8	0.5	38.1	12.0	129.1	4.2	0.0	34.1	142.4
TOG	SV	SHA	SHASTA	0.2	8.3	0.6	16.8	15.2	86.6	9.9	0.0	9.9	0.4
TOG	SV	TEH	TEHAMA	11.7	12.8	0.2	40.2	21.6	95.9	7.6	0.0	30.5	0.1
TOG	SV	YS	SOLANO	2.4	16.3	5.4	7.5	3.3	28.0	1.0	0.0	134.1	0.0
TOG	SV	YS	YOLO	5.5	14.8	1.6	6.6	40.9	63.4	5.3	0.0	138.9	0.2

Table 15: ROG Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
ROG	GBV	GBU	ALPINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROG	GBV	GBU	INYO	0.0	0.0	0.0	0.0	0.0	3.7	1.1	0.0	0.0	0.0
ROG	GBV	GBU	MONO	0.0	0.0	0.0	0.1	0.0	0.6	0.3	0.0	0.1	0.0
ROG	LC	LAK	LAKE	0.0	0.3	0.0	0.3	0.5	1.4	0.1	0.0	0.2	0.0
ROG	LT	ED	EL DORADO	0.0	0.1	0.0	0.1	0.1	0.7	0.1	0.0	0.1	0.0
ROG	LT	PLA	PLACER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROG	MC	AMA	AMADOR	0.0	0.1	0.0	0.3	0.0	2.5	0.1	0.0	0.4	0.0
ROG	MC	CAL	CALAVERAS	0.0	0.2	0.0	2.0	0.3	3.5	0.3	0.0	0.7	8.4
ROG	MC	ED	EL DORADO	0.1	0.5	0.1	0.9	0.9	5.2	0.4	0.0	0.7	0.0
ROG	MC	MPA	MARIPOSA	0.0	0.2	0.0	0.1	0.1	3.2	0.2	0.0	0.3	0.0
ROG	MC	NSI	NEVADA	0.1	0.4	0.1	1.0	1.2	4.9	0.2	0.0	0.9	0.0
ROG	MC	NSI	PLUMAS	0.0	0.1	0.0	0.0	0.0	1.9	0.1	0.0	0.2	0.0
ROG	MC	NSI	SIERRA	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0
ROG	MC	PLA	PLACER	13.6	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.1	0.0
ROG	MC	TUO	TUOLUMNE	0.1	0.3	0.0	0.6	0.4	3.1	0.6	0.0	0.3	14.1
ROG	MD	AV	LOS ANGELES	0.0	0.3	0.0	0.2	0.3	5.7	0.2	0.0	0.1	0.0
ROG	MD	KER	KERN	0.0	0.0	0.0	0.1	0.0	1.1	0.1	0.0	4.5	0.0
ROG	MD	MOJ	RIVERSIDE	0.0	0.0	0.0	0.2	0.3	4.6	0.1	0.0	0.6	0.0
ROG	MD	MOJ	SAN BERNARDINO	0.1	23.8	3.6	0.8	0.0	7.4	0.2	0.0	0.5	22.0
ROG	MD	SC	RIVERSIDE	0.1	0.0	0.0	0.3	0.4	6.7	0.1	0.0	0.9	0.0
ROG	NC	MEN	MENDOCINO	0.0	0.4	0.0	0.6	0.9	3.6	0.4	0.0	3.5	0.0
ROG	NC	NCU	DEL NORTE	0.0	0.0	0.0	0.3	0.1	0.4	0.0	0.0	0.1	0.0
ROG	NC	NCU	HUMBOLDT	0.1	0.4	0.1	0.6	0.9	4.1	0.2	0.0	2.6	0.0
ROG	NC	NCU	TRINITY	0.1	0.1	0.0	0.1	0.9	0.6	0.1	0.0	0.2	0.0
ROG	NC	NS	SONOMA	190.7	94.4	28.5	1.7	2.6	6.7	0.5	0.0	6.4	0.0
ROG	NCC	MBU	MONTEREY	0.0	0.2	0.0	0.4	0.4	4.9	0.1	0.0	1.0	0.0
ROG	NCC	MBU	SAN BENITO	0.5	0.3	0.0	0.3	0.0	4.2	0.1	0.0	0.6	1.3
ROG	NCC	MBU	SANTA CRUZ	0.5	69.5	0.1	0.1	0.1	2.6	0.1	0.0	0.1	0.0
ROG	NEP	LAS	LASSEN	0.0	0.1	0.0	0.2	0.4	3.7	0.1	0.0	2.8	0.0
ROG	NEP	MOD	MODOC	0.0	0.1	0.0	0.6	0.9	3.0	0.2	0.0	3.7	0.0
ROG	NEP	SIS	SISKIYOU	0.3	0.4	0.0	0.3	2.2	5.1	0.8	0.0	1.9	0.0
ROG	SC	SC	LOS ANGELES	0.0	0.0	0.0	0.3	0.0	11.5	0.5	0.0	0.3	0.0
ROG	SC	SC	ORANGE	0.0	0.0	0.6	0.0	0.1	2.9	0.0	0.0	0.1	0.0
ROG	SC	SC	RIVERSIDE	0.0	94.3	36.9	0.4	0.0	7.5	0.2	0.0	1.0	0.0

Table 15 (cont.): ROG Emissions, 2017 (tons/year)

Pollutant	Air Basin	District	County	CHICKENS BROILERS	CHICKENS LAYERS	CHICKENS PULLETS	GOATS	HOGS	HORSES	MULES	RABBITS	SHEEP	TURKEYS
ROG	SCC	SB	SANTA BARBARA	0.2	0.5	0.1	0.2	1.1	14.5	0.6	0.0	0.1	0.0
ROG	SCC	SLO	SAN LUIS OBISPO	0.1	0.8	0.3	0.9	1.0	19.5	0.8	0.0	7.5	0.0
ROG	SCC	VEN	VENTURA	0.1	0.7	0.0	0.2	0.4	7.9	0.3	0.0	0.4	0.0
ROG	SD	SD	SAN DIEGO	14.1	173.6	102.0	1.3	4.1	20.6	0.5	0.0	0.9	0.0
ROG	SF	BA	ALAMEDA	0.0	0.1	0.0	0.7	0.1	3.9	0.1	0.0	0.4	0.0
ROG	SF	BA	CONTRA COSTA	0.0	0.3	0.1	4.4	0.3	5.2	0.1	0.0	1.1	0.0
ROG	SF	BA	MARIN	0.1	2.2	0.2	0.9	0.9	1.7	0.1	0.0	6.0	0.1
ROG	SF	BA	NAPA	0.0	0.5	0.0	0.6	0.2	1.1	0.1	0.0	0.5	0.0
ROG	SF	BA	SAN FRANCISCO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROG	SF	BA	SAN MATEO	0.4	0.2	0.0	0.2	0.4	3.8	0.1	0.0	0.1	0.0
ROG	SF	BA	SANTA CLARA	0.1	1.6	0.0	0.5	0.9	7.1	0.1	0.0	0.6	0.0
ROG	SF	BA	SOLANO	0.2	1.2	0.4	0.6	0.2	2.1	0.1	0.0	9.9	0.0
ROG	SF	BA	SONOMA	122.0	60.4	18.2	1.1	1.6	4.3	0.3	0.0	4.1	0.0
ROG	SJV	SJU	FRESNO	1,564.8	0.5	1.9	3.0	3.7	10.8	1.7	0.0	14.8	76.2
ROG	SJV	SJU	KERN	0.0	109.1	13.8	0.8	2.0	9.9	0.8	0.0	40.5	0.0
ROG	SJV	SJU	KINGS	173.9	0.1	0.0	10.0	0.2	2.8	0.3	0.0	3.3	18.2
ROG	SJV	SJU	MADERA	15.8	0.2	0.0	1.1	0.1	3.0	0.4	0.0	0.5	12.0
ROG	SJV	SJU	MERCED	528.6	265.4	85.5	4.7	1.2	4.3	0.1	0.0	12.1	57.7
ROG	SJV	SJU	SAN JOAQUIN	29.5	109.8	28.0	1.8	2.0	10.0	0.2	0.0	10.4	0.0
ROG	SJV	SJU	STANISLAUS	456.8	139.9	52.6	3.3	12.2	9.2	0.3	0.0	2.2	54.7
ROG	SJV	SJU	TULARE	266.2	0.4	0.0	0.6	70.3	9.9	0.6	0.0	17.7	3.8
ROG	SS	IMP	IMPERIAL	0.0	0.0	1.3	0.2	0.0	0.5	0.0	0.0	23.1	0.0
ROG	SS	SC	RIVERSIDE	0.1	0.0	0.0	0.4	0.5	8.0	0.2	0.0	1.1	0.0
ROG	SV	BUT	BUTTE	0.2	0.5	0.1	0.7	3.5	5.4	0.9	0.0	1.4	0.0
ROG	SV	COL	COLUSA	0.0	0.1	0.0	0.0	0.5	2.0	0.1	0.0	0.4	0.0
ROG	SV	FR	SUTTER	0.0	0.1	0.0	0.5	1.0	1.5	0.1	0.0	2.3	0.0
ROG	SV	FR	YUBA	0.1	0.3	0.0	0.7	0.4	3.2	0.4	0.0	0.9	0.0
ROG	SV	GLE	GLENN	0.0	0.2	0.0	2.1	0.9	2.5	0.1	0.0	0.9	0.0
ROG	SV	PLA	PLACER	259.0	0.8	0.1	0.9	1.0	8.7	0.6	0.0	1.9	0.0
ROG	SV	SAC	SACRAMENTO	90.1	0.7	0.0	3.1	1.0	10.3	0.3	0.0	2.7	11.4
ROG	SV	SHA	SHASTA	0.0	0.7	0.0	1.3	1.2	6.9	0.8	0.0	0.8	0.0
ROG	SV	TEH	TEHAMA	0.9	1.0	0.0	3.2	1.7	7.6	0.6	0.0	2.4	0.0
ROG	SV	YS	SOLANO	0.2	1.3	0.4	0.6	0.3	2.2	0.1	0.0	10.7	0.0
ROG	SV	YS	YOLO	0.4	1.2	0.1	0.5	3.2	5.1	0.4	0.0	11.1	0.0