US Factory Farming Estimates (Animals Alive at Present) These estimates use the 2017 Census of Agriculture and EPA definitions of CAFOs to estimate the number of US farmed land vertebrates who are in CAFOs ("factory farms"). Last updated: 04/11/2019 Percentile calculations Meat chicken calculations Farms larger than cutoff range Farms larger than and including cutoff range Percentile of cutoff in farm size range % of animals above cutoff Total % factory farmed These estimates use the number of animals per farm as the best available proxy for whether the farm is a CAFO with the following premises: (1) All large sized farms are CAFOs, (2) all Medium sized farms are CAFOs, and (3) for bids, the largest three quanters of Small farms are CAFOs, and (3) for bids, the largest three quanters of Small farms are CAFOs, and (5) farms are evenly distributed among sizes within each range. Cumulative % 100.000% 99.942% 99.979% 2000 to 15999 8,887,911,177 599 3,275,099 99.979% 52.682% 16000 to 29999 93 100 2,101,310 4,178,760 8,884,636,078 99.942% 99.960% 30000 to 59999 8.882.534.768 99.919% 20,957,369 206,319,172 479,850,660 60000 to 99999 8,878,356,008 99.872% 99.636% 97.315% Meat chickens Egg chickens Turkeys Pigs Cows Total land Total land + fish 300000 to 499999 3,726 1,457,192,115 8,171,228,807 91.917% 99.850% 500000 or more 7 211 6 714 036 692 6 714 036 692 75.526% 32,751 8.889.759.283 Total inventory 1,621,400,316 Inventory, Table 30 Egg-laying hens Cutoff ('Cutoff Calculations') 2,250 Egg-laying hen calculations Farms larger than cutoff range Total animals Animals per farm 1 to 49 Cumulative % 100.000% Fish Estimates 202.403 Farms larger than and including cutoff range 3.260.087 368.241.393 98.486% We lack US census data for fish farm size, but consensus in the field seems to be that virtually all fish farms are factory farms in terms of confinement, disease, and other relevant metrics. US fish (see sheet "Fish Estimates"): 532,510, 1 to 49 50 to 99 100 to 399 400 to 3199 17,066 7,871 1,482 513 364,981,306 363,918,019 362,664,677 361,200,542 99.115% 98.826% 98.486% 98.088% 1.063.287 Percentile of cutoff in farm size range % of animals above cutoff 1,063,287 1,253,342 1,464,135 3,499,325 3200 to 9999 10000 to 19999 1,095 1,484 16,185,116 357,701,217 341,516,101 97.138% Confirmatory Calculation 20000 to 49999 42.059.552 92.742% 15.32% 50000 to 99999 100000 or more 299,456,549 281,482,739 81.321% 76.440% 17,973,810 281,482,739 EPA 2012: 'CAFOs make up approximately 15 percent of total AFOs' This only weakly confirms our choice of cutoffs, which assume all farms above a certain size (per species) are CAFOs, while in reality some non-CAFO farms will be larger than some CAFO farms. 368,241,393 Total inventory 232,500 Turkeys Sales, Table 30 Cutoff ('Cutoff Calculations') 4,125 Turkey calculations Animals per farm 1 to 1999 2000 to 7999 Cumulative % 100.000% 99.884% 99.787% Farms larger than cutoff range Farms larger than and including cutoff range Percentile of cutoff in farm size range % of animals above cutoff Total farms Total animals 99.787% Citations 8,640 67 97 329,960 278,666 1,143,142 285,317,097 284,987,137 284,708,471 99.884% 35.423% 99.8509 Notes This is a rough estimate based on the data we have available. We could not find any data on % of Small and Medium sized farms that meet the EPA criteria for CAFOs, so we took our best guess and hope to update it with hard evidence in the future. 16000 to 29999 222 5,056,778 283,565,329 99.386% 30000 to 59999 645 28.011.500 278.508.551 97.614% 60000 to 99999 653 830 49,106,441 250,497,051 87.796% 201.390.610 201.390.610 70.585% 285,317,097 104,322,709 Total inventory Note that a CAFO as defined by the EPA and what the public would regard as a "factory farm" are not necessarily the same. For instance, a farm with 37.50 chickens or 3.000 pigs is only considered a CAFO if meets certain conditions regarding surface water pollution, but farms of these sizes that don't meet these conditions could still house animals in ways that would be publicly regarded as crowded "factory" conditions. Pigs Cutoff ('Cutoff Calculations') 563 Inventory, Table 21 Pig calculations Farms larger than cutoff range Farms larger than and including cutoff range Percentile of cutoff in farm size range Animals per farm 1 to 24 Total farms 46,475 1 animals 278.691 Cumulative % 100.000% 97 175% 72.381.007 25 to 49 50 to 99 3,759 1,889 72,102,316 71,979,401 99.615% 99.445% There will be another Census of Agriculture for 2017, which will likely be published in the spring of 2019. We will update these estimates when it is available, and may add more nuance to our methodology at that time. 122,090 % of animals above cutoff 98.269% 100 to 199 1,220 160,882 71,857,311 99.276% 200 to 499 1.451 454.960 71.696.429 99.054% Sales figures are used for meat chicken animals per farm because the 2012 Census lacks meat chicken inventory by farm size. We still use the total inventory figure in the estimate of total % factory farmed. 98.426% 97.175% 93.388% 500 to 999 905,123 71 241 469 70,336,346 67,594,964 52,701,285 2,016 4,724 All pigs are assumed to be over 55 pounds, for the purpose of using the EPA definitions of CAFOs. 5000 or more 3,600 52,701,285 72.811% Fish refers to finfish, not finfish and shellfish. 66,439 Total inventory 72,381,007 Cutoff ('Cutoff Calculations') (beef/veal) Cows Cutoff ('Cutoff Calculations') (dairy) Cutoff (average) 225 150 188 Inventory, Table 14 Cow calculations Farms larger than cutoff range Animals per farm Cumulative % 100.000% 69.006% 1 to 9 228.611 1,102,366 93.648.041 Farms larger than and including cutoff range 80.689% 10 to 19 156,128 92,545,675 98.823% Percentile of cutoff in farm size range 88.384% 20 to 49 50 to 99 100 to 199 200 to 499 6,640,164 8,194,726 10,940,817 16,757,973 90,398,644 83,758,480 75,563,754 64,622,937 96.530% 89.440% 80.689% 70.363% 80,326 56,079

69.006%

51.112%

38 258%

26.199%

47.864.964

35,828,074

24 535 042

500 to 999

1000 to 2499 2500 to 4999 5000 or more

Total inventory

17.634

7,775 1,973 1,270

886,692

12.036.890

11 293 032

6 681 843

93,648,041

Data on this she	eet from EPA CA	FO definitions				
Cutoff for mamm	0.75					
Cutoff for birds	0.25					
	Beef/veal cows	Dairy cows	Pigs	Turkeys	Egg-Laying Hens	Meat Chickens
Small-Medium	300	200	750	16500	9000	37500
Medium-Large	1000	700	2500	55000	30000	125000
Туре	Mammal	Mammal	Mammal	Bird	Bird	Bird
Cutoff	225	150	562.5	4125	2250	9375

Graved sheet contents some	road from: Seboount oroluk 1	elimated numbers of individ	uals in annual aquaculture pro	duction (EAO) of figh energies	'US 2015							
Species	Production (t)	Estimated	EMWid	Generic Control of their species	Estimated							
Species	i roduction (t)	mean	Littina	Generic Mean	Numbers							
		weight		Weight	(millions)							
		(EMW) (g)		(g)								
		(8)										
Channel catfish	143.992	340-680	45		212 - 424							
C.IIIIII C.I C.IIII	143,772		12		212-424							
Rainbow trout	20,799	210-5,000	155		4 - 99							
Atlantic salmon	18 719	3,614-8,434	21		2 - 5							
		.,,	-									
Tilapias nei	8,618	250-800	215		11 - 34							
Striped bass, hybrid	3,679	816	205		5							
			_									
Red drum	1,500	1,000	156		2							
Sturgeons nei	947			322-1,081	1 - 3							
Freshwater fishes nei	709			322-1,081	1 - 2							
Marine fishes nei	600			322-1,081	1 - 2							
Cyprinids nei	461			322-1,081	<1 - 1							
Longfin yellowtail	400			322-1,081	<1 - 1							
Barramundi(=Giant seaperch)	400	300-2,000	25		<1 - 1							
American yellow perch	100	227	2		<1							
Totals by estimate type:												
	Production (t)				Estimated Numbers							
					(millions)							
Single species with an EMW	189,189				225 - 536							
Multi species with an EMW	8,618				11 - 34							
Totals for species with an EMW	197,807				236 - 570							
EMW												
Totals for species without	3,117				3 - 10							
EMW	3,117				3 - 10							
Total fish production	200,924				238 - 580							
out of total aquaculture	425,973											
production												
			of U.S. Per Capita Consumpti									
We are averaging across m	rultiple page loads because t	ne Monte Carlo estimation te	chniques Guesstimate uses to	produce its distributions use	a small sample size so as to	load pages quickly. See more	in their documentation.					
	Total farmed fish	Total farmed fish	Total farmed fish				Farmed fish years required annually per capita	Farmed fish years required	Farmed fish years required	Cormed Seb week required	Farmed fish years required	Formed Seb weers required
	consumed anually per		Iotal faillieu listi	Average lifespan in	Average lifespan in	Average lifespan in	(slaughtered fish),	annually per capita	(slaughtered fish),	annually per capita (total),	annually per capita (total),	annually per capita (total),
		consumed anually per	consumed anually per								average	maximum
	capita, minimum	capita, average	consumed anually per capita, maximum	months, minimum	months, average	months, maximum	minimum	(slaughtered fish), average	maximum	minimum		
	capita, minimum 0.2	capita, average 0.2	capita, maximum 9 0.4	months, minimum	months, average 27	months, maximum	minimum 0.38	(slaughtered fish), average 0.65	maximum 0.99	0.42	0.71	
Salmon 2nd Page Load	capita, minimum 0.2 0.2	capita, average 0.2	capita, maximum 9 0.4 9 0.39	months, minimum 18	months, average 27	months, maximum 36	minimum 0.31	(slaughtered fish), average 0.65 0.65	0.99 0.98	0.42	0.71	1.1
Salmon 2nd Page Load	capita, minimum 0.2	capita, average 0.2	capita, maximum 9 0.4 9 0.39	months, minimum 18	months, average 27	months, maximum 36	minimum 0.31	(slaughtered fish), average 0.65 0.65	0.99 0.98	0.42	0.71	1.1
Salmon 2nd Page Load	capita, minimum 0.2 0.2 0.2	capita, average 0.2 0.2 0.2 0.2	0.49 0.39 0.39	months, minimum 18 18	months, average 27 27 27	months, maximum 36 36	minimum 0.31 0.31 0.31	(slaughtered fish), average 0.85 0.85 0.85	0.99 0.98 0.97	0.42 0.41 0.41	0.71 0.7 0.7	1.1
Salmon 2nd Page Load Salmon 3rd Page Load Tilapia 1st Page Load	0.2 0.2 0.2	capita, average 0.2 0.2 0.2 0.2 0.3	capita, maximum 9 0.4 9 0.39 9 0.39	months, minimum 18 18 18	months, average 27 27 27	months, maximum 36 36	minimum 0.31 0.31 0.31	(slaughtered fish), average 0.85 0.85 0.85 0.85 2.21	0.99 0.98 0.97	0.42 0.41 0.41	0.71 0.7 0.7 0.7	1.1
Salmon 2nd Page Load Salmon 3rd Page Load Tilapia 1st Page Load Tilapia 2nd Page Load	0.2 0.2 0.2 0.2 1. 1.	0.2 0.2 0.2 0.2 0.3 3.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.49 0.39 0.39 0.39 2 5.3	months, minimum 18 18 18 5.5	months, average 27 27 27 8 8	months, maximum 36 36 36	minimum 0.31 0.31 0.31 1.1 1.1	(slaughtered fish), average 9 0.65 0.65 3 0.65 2 2.1	maximum 0.99 0.98 0.97 3.7 3.6	0.42 0.41 0.41 1.1	0.71 0.7 0.7 0.7 2.2 2.2	1.1 1.1 3.5 3.6
Salmon 2nd Page Load Salmon 3rd Page Load Tilapia 1st Page Load Tilapia 2nd Page Load	0.2 0.2 0.2	0.2 0.2 0.2 0.2 0.3 3.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.49 0.39 0.39 0.39 2 5.3	months, minimum 18 18 18 5.9	months, average 27 27 27 8 8	months, maximum 36 36 36	minimum 0.31 0.31 0.31 1.1 1.1	(slaughtered fish), average 9 0.65 0.65 3 0.65 2 2.1	maximum 0.99 0.98 0.97 3.7 3.6	0.42 0.41 0.41 1.1	0.71 0.7 0.7 0.7 2.2 2.2	1.1 1.1 3.5 3.6
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Salmon 2nd Page Load Salmon 3rd Page Load Tilapia 1st Page Load Tilapia 2nd Page Load Tilapia 3rd Page Load Tilapia 3rd Page Load Pangasius 1st Page Load	Capita, minimum 0.2 0.2 0.2 0.2 1.1 1. 0.7	capita, average 0.2 0.2 0.2 0.3 0.3 0.3 1.	capita, maximum 9 0.4 9 0.36 9 0.36 9 0.35 2 5.3 2 5.2 2 5.1 2 2.1	months, minimum 18 118 118 5.5 6.6 6.6	months, average 27 27 27 27 8 8 8 8 9.3	months, maximum 36 36 36 9.9	minimum 0.3i 0.3i 0.3i 1.1 1.1 0.5i	(slaughtered fish), average 9 0.85 9 0.85 3 0.85 3 0.85 1 2 2.1 1 2.1 1 0.92	maximum 0.99 0.98 0.97 3.7 3.6 3.6	0.42 0.41 0.41 1.1 1.2 1.1	0.71 0.7 0.7 2.2 2.2 2.2 0.96	1.' 1.' 3.4 3.4 3.1 3.1
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Salmon 3rd Page Load Salmon 3rd Page Load Tilapia 1st Page Load Tilapia 1st Page Load Tilapia 2nd Page Load Tilapia 2nd Page Load Pangasius 3rd Page Load Pangasius 3rd Page Load Caffish 2nd Page Load Caffish 2nd Page Load Caffish 3rd Page Load Caffish 3rd Page Load Salmon avg Tilapia avg	capita, minimum 02 02 02 02 1. 1. 0. 07 07 07 04 04 04	capita.average 0 2 0 2 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0	cipila, maximum 9 0.36 9 0.35 2 2 5.3 2 2 5.2 2 5.2 2 1.2 2 2.1 5 1.1 6 1.1 6 0.35	months, minimum 11 15 5.5 5.5 6 6 11 11 11 11 11 15 6 6 6 6 11 11	months, average 27 27 27 27 27 27 21 21 21 21 21 21 21 21 21 21 21 21 21	months, maximum 38 38 38 39 10 10 10 10 10 10 10 10 10 10 22 22 23 36,000	minimum	(slaughtered fish), average (s	0.99 0.99 0.99 3.7 3.8 1.8 1.7 2.7 2.7 2.7 0.99 3.83	0.42 0.41 1.1 1.2 1.1.1 0.56 0.56 0.56 0.67 0.76	0.74 0.77 2.2 2.2 2.2 2.2 2.2 2.3 0.56 0.55 0.98 1.12 1.16 0.070 2.20	1.1 1.1 3.9 3.8 3.7 1.7 1.8 3.2 2.8 3 1.10 3.80
Salmon til Page Load Salmon 3rd Page Load Salmon 3rd Page Load Tilapia 1rd Page Load Tilapia 2rd Page Load Tilapia 3rd Page Load Tilapia 3rd Page Load Tilapia 3rd Page Load Pampasius 3rd Page Load Pampasius 3rd Page Load Carlifn 1rd Page Load Carlifn 3rd Page Load	capita, minimum 0 2 0 2 0 2 0 2 1. 1. 1. 0 7 0 7 0 7 0 7 0 4 0 4 0 4	capita, average 02 02 02 02 02 02 02 03 03 03 03 03 03 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05	Capita, maximum 9 0.4 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	months, minimum 11 15 55 55 51 11 11 11 11 1	months, average 27 27 27 27 27 27 27 27 27 27 27 27 27	months, maximum 36 36 36 6.5 10 11 11 12 22 22 22 36 60 999 1000	0 31 0 33 0 33 0 33 0 33 0 33 0 33 0 33	(slaughtered far), average (slaughtered far), av	0.99 0.88 0.97 3.7 3.6 3.6 1.6 1.7 2.7 2.7 2.7 2.9 0.99 3.6 3.6 3.6 3.6	0.42 0.44 0.41 1.1 1.2 1.1 0.56 0.56 0.67 0.79 0.79	0.71 0.77 0.77 2.2 2.2 2.2 2.2 0.96 0.95 0.99 1.8 1.2 1.6 0.70 2.20 0.99	1.1 1.1 3.9 3.8 3.7 1.7 1.8 2.2 3.3 1.10 3.80 1.73

The formula used below to estimate current populations is as follows, avertaging species (Respans and mortalities (not weighting by species production):

US produced in milion* 1000000* (Respans in months / months in year)* (years required for both slaughtered and dead before slaughter-learn equired for slaughtered)

Min 238,327,099

May 831,054,0786

Max 931,054,421