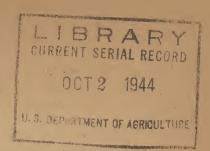
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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Animal Industry

1944 ANNUAL REPORT ON PARTICIPATION
in the
NATIONAL POULTRY IMPROVEMENT PLAN



Participation in the National Poultry Improvement Plan, designed to improve the production and breeding qualities of poultry and to reduce mortality from pullorum disease, has continued to grow during the past year. Not only has it increased from the standpoint of the number of States actively cooperating, which was raised to a total of 45 through the entrance of Pennsylvania during the year, but also through another substantial increase in the number of breeders, hatcherymen, and hatching-egg flock owners voluntarily participating in the plan, as shown in the accompanying tables. The scope of the plan is evidenced by the fact that the egg capacity of participating hatcheries amounted to 39.1 percent of the egg capacity of all hatcheries in the 45 cooperating States, according to the latest hatchery survey.

In the report we have tabulated participation in all phases of the plan by States for the year ending June 30, 1944. Some of the significant facts shown in these tables are as follows:

Table 1.--An increase over last year of 12.9 percent in the number of participating hatcheries. An increase over last year of 27 percent in the egg capacity of participating hatcheries. The five leading States in number of participating hatcheries: Massachusetts, Indiana, New York, Illionis, and Minnesota. The five leading States in egg capacity of participating hatcheries: Illinois, Indiana, Minnesota, Ohio, and Missouri.

Table 2.--The five leading States in the percentage of total egg capacity participating: Louisiana, North Dakota, New Hampshire, Connecticut, and Mississippi.

Table 3.--An increase over last year of 17.6 percent in the number of flocks and 23.0 percent in the number of birds in participating flocks. The five leading States in the number of flocks: Missouri, Illinois, Indiana, Ohio, and Iowa. The six States with a million or more birds in participating flocks: Missouri, Illinois, Indiana, Ohio, Minnesota, and Iowa. The average number of birds in hatchery-supply flocks is shown for each of the States. The range is from a low of 88 in Louisiana to a high of 1,945 in Oregon. The five States with an average flock size of 1,000 or more birds: Oregon, New Hampshire, Massachusetts, Connecticut, and Rhode Island.

Table 4.—The five States with the greatest number of birds in participating flocks in relation to egg capacity of participating hatcheries (exporting States of hatching eggs): Maine, Vermont, New Hampshire, Rhode Island, and Missouri. The five States with the smallest number of birds in participating flocks in relation to egg capacity of participating hatcheries (importing States of hatching eggs): New Mexico, Mississippi, Louisiana, Texas, and Alabama. An estimated 7 percent more birds in participating flocks than are required to supply participating hatcheries for the country as a whole.

Table 5.--In the 22 States reporting on the use of males of improved breeding, 23.5 percent of all birds in participating flocks were mated to such males. This may be compared with 19.2 percent last year.

Table 6.--Of the 3,080 participating hatcheries in 1943-44, 2,243 were U.S. Approved, 293 were U.S. Certified, and 541 were participating in the pullorum phase of the plan only. In addition to the U.S. Certified hatcheries, there were 160 U.S. Approved hatcheries selling U.S. Certified chicks of one or more breeds or varieties.

Table 7.—This table shows participation by breeding stages for each of the nine years that the plan has been in operation. There has been a constant increase in the number of U.S. Approved hatcheries and supply flocks. There has also been a substantial increase in the number of flocks and birds qualifying for the U.S. Certified breeding stage during recent years.

Table 8.—The number of U.S. Pullorum-Controlled hatcheries increased from 264 in 1941-42 to 448 in 1942-43, and to 782 in 1943-44. The number of U.S. Pullorum-Clean flocks and birds has increased constantly since the beginning of the plan.

Table 9.—Hatchery-supply flocks averaged 248 birds per flock in 1943-44. The average size of the participating flocks has increased each of the past three years. The egg capacity of participating hatcheries averaged 61,609, as compared to an average of 54,755 for the previous year.

Table 10.--Of the 20 million birds in hatchery-supply flocks in 1943-44, the percentage in flocks of each pullorum class was as follows:

U.S. Pullorum-Tested - 42 percent

U.S. Pullorum-Controlled - 39 percent

U.S. Pullorum-Passed - 6 percent

U.S. Pullorum-Clean - 13 percent

The number of birds qualifying for a pullorum class increased from about 16 million in 1942-43 to more than 20 million in 1943-44. The number of birds in U.S. Pullorum-Controlled flocks now almost equals the number in the U.S. Pullorum-Tested flocks.

Table 11.--U.S. Record of Performance work was carried on in 42 States during the year. The number of birds trap-nested exceeded 159,000. The five leading States in the number of birds entered in U.S.R.O.P.: Massachusetts, Indiana, Texas, Minnesota, and Ohio. The five leading States in the number of females in U.S.R.O.P. mating: Indiana, Massachusetts, Ohio, Wisconsin, and Michigan. Over 3,500 U.S.R.O.P. breeding pens were available for the production of individually pedigreed hatching eggs and chicks during the 1944 breeding season.

Table 12.—The five most popular breeds in U.S. Record of Performance: White Leghorn, Rhode Island Red, New Hampshire, Barred Plymouth Rock, and White Plymouth Rock. These five breeds included more than 97 percent of the candidates. The portion of the candidates that are White Leghorns has decreased from 65.8 percent in 1937-38 to 49.9 percent in 1943-44. During the same period the New Hampshire breed has increased from 3.7 to 12.4 percent.

Table 13.—During 1943—44 there were 320 U.S.R.O.P. breeders and 447 flocks, as compared to 326 and 435, respectively, the previous year. The number of U.S.R.O.P. flocks has remained about the same for the past 6 years, but there has been a constant increase in the number of U.S.R.O.P. matings and number of females in such matings. This means that there is an increasing number of males of improved breeding available for flock improvement.

Table 14.—It has been recommended that a breeder should establish 8 or more single-male breeding pens for each breed, since a relatively large number of matings is necessary for progress in family selection. Only 44.3 percent of the U.S.R.O.P. flocks had 8 or more breeding pens this past year. This is an improvement over the preceding year when 42.1 percent of the flocks had 8 or more single-male matings. However, more than five-sixths of the U.S.R.O.P. products are produced on farms having 8 or more single-male matings, since only 16 percent of the females in U.S.R.O.P. matings are on farms where fewer than 8 breeding pens are maintained.

Table 15.--It is recommended that an R.O.P. breeder should trap nest at least 400 candidates of each breed in order to obtain records for testing a sufficient number of families. The percentage of the flocks with 400 or more candidates was 29.0 in 1943-44, as compared with 27.4 in the previous year. The breeders are handicapped in their trap-nest work because of the labor shortage during the war emergency. However, 65.9 percent of the 1943-44 candidates were in flocks of 400 or more candidates.

Table 16.--Five-day-a-week trap-nesting has been a very popular wartime labor saver. The number of flocks trap-nested 5 days a week increased from 126 in 1942-43 to 163 in 1943-44. Approximately 39 percent of the flocks are trap-nested only 5 days a week.

Table 17.—Each of the 447 U.S.R.O.P. flocks qualified for a pullorum class of the plan, and 335 of these flocks qualified for the U.S. Pullorum-Controlled or higher class.

The requirement that flocks must qualify for a pullorum class of the plan as a prerequisite to qualifying for a breeding stage became effective September 1, 1943. This change was made in each of the cooperating States concerned without any serious difficulty. There are still 12 States in which breeders and hatcheries may participate in a pullorum class without participating in the breeding phase of the plan.

During the year, special emphasis was placed upon the early selection of cockerels for fast feathering, rapid growth, and good body type; testing and retesting hatchery-supply flocks to a low tolerance level or to the point where no reactors were found; to the closed flock system of breeding; and to the use of the best available production-bred cockerels in hatchery-supply flocks.

The data in these tables definitely show that progress is being made toward meeting the objectives of the plan. Participants in the plan, as well as those engaged in the administration, supervision, and coordination of its provisions should never be satisfied with progress that has been made. Working together, we must all endeavor to do a better job each year of producing quality chicks that will live, grow, and produce a profit for the farmers of the Nation.

Table 1 -- Hatchery participation by States, 1943-44 compared with 1942-43, and percentage increase or decrease

	2 , .	Participating				Percent increase	
State		42-43		3-44		decrease	
	Number	Egg capacity	Number	Egg capacity	Number	Egg capacity	
Alabama	87	2 017 01/	95	7 416 566	+9.2	+21.4	
		2,813,214	1	3,416,566	-42.1	-61.3	
Arizona	19	722,198	11	279,584		- 0.01	
Arkansas	46	2,016,434	45	2,01.6,278	-2.2	+6.4	
Colorado	18	1,179,040	18	1,253,900	0.0		
Connecticut	112	4,190,986	129	5,182,274	+15.2	+23.6	
Delaware	3	383,000	16	3,500,600	+ 433.3	+814.0	
Florida	52	1,398,922	60	1,696,695	+15.4	+21.3	
Georgia	52	4,458,088	56	4,323,082	+7.7	- 3.0	
Idaho	26	967,430	28	995,005	+7.7	+2.9	
Illinois	153	13,340,465	165	17,433,101	+7.8	+30.7	
Indiana .	155	13,854,944	178	15,171,000	+14.8	+ 9.5	
Iowa	69	6,399,080	91	8,806,792	+31.9	+37.6	
Kansas	93	5,044,873	99	6,280,078	+ 6.5	+ 24.5	
Kentucky	61	3,064,338	69	3,602,650	+13.1	+17.6	
Louisiana	54	1,114,650	64	2,237,186	+18.5	+100.7	
Maine	125	1,614,455	110	1,261,652	_12.0	-21.9	
Maryland	43	4,584,260	44	6,530,040	+ 2.3	+42.4	
Massachusetts	174	2,886,431	205	3,603,740	+17.8	+24.9	
Michigan	45	2,731,600	46	2,764,000	+ 2.2	+1.2	
Minnesota	139	12,099,972	151	14,936,168	+ 8.6	+ 23.4	
Mississippi	36	1,307,360	43	1,732,740	+19.4	+ 32.5	
Missouri	86	7,075,180	109	12,281,670	+26.7	+73.6	
Nebraska	8	545,300	16	1,248,800	+100.0	+ 129.0	
New Hampshire	119	2,750,234	116	3,400,992	-2.5	+ 23.7	
New Jersey	42	3,838,712	46	4,371,530	+9.5	+ 13.9	
New Mexico	4	143,000	2	84,000	_50.0	-41.3	
New York	97	2,186,518	171	4,394,363	+76.3	+101.0	
North Carolina	1	5,241,340	132	7,076,920	+17.9	+ 35.0	
North Dakota	54	2,857,791	54		0.0	+ 15.4	
Ohio	127	11,756,421	140	14,092,792	+10.2	+ 19.9	
Oklahoma	72	3,875,720	73	4,599,392	+ 1.4	+ 18.7	
Oregon	9	225,500	8	275,500	-11.1	+ 22.2	
Pennsylvania	0	0	3	104,528		was made aug.	
Rhode Island	13	219,092	18	208,620	0.0	-4.8	
South Carolina	1	555,508	31	1,154,388	+ 40.9	+107.8	
	3	2,490,876	39	2,616,966	-2.5	+ 5.1	
South Dakota	40		46	2,586,910	+ 7,0	+ 20.0	
Tennessee	43	2,154,900	:	6,295,410	+15.4	+ 21.8	
Texas	78	5,167,997	90		+157.1	+271.4	
Utáh	7	311,852	18		+ 12.9	+ 6.5	
Vermont	31	309,617	35	329,663	+ 4.4	+ 22.8	
Virginia	90	6,355,816	94		i .		
Washington	24	1,107,700	29	1,223,100	+20.8	+ 10.4	
West Virginia	22		23	1,296,852	+ 4.5	+ 8.9	
Wisconsin	56		58	2,702,800	+ 3.6	- 3.5	
Wyoming	6	95,140	6	128,200	0.0	+34.7	
				7.00 NEG 200	. 200	+07.0	
Total	2,729	149,426,834	3,080	189,756,009	+12.9	+27.0	

Table 2 -- Egg capacity of participating hatcheries, 1943-44, compared with egg capacity of all hatcheries, 1943 hatchery survey

	tates.	matcheries, 1940 na	
		Egg capacity	Percentage of 1943
	Egg capacity	participating	egg capacity
State	all hatcheries	hatcheries	participating in
	1943 *	1943-44	1943_44
Alabama	4,084,000	3,416,566	83.7
Arizona	907,000	279,584	30.8
Arkansas	3,827,000	2,016,278	52.7
Colorado	4,515,000	1,253,900	27.8
Connecticut	5,780,000	5,182,274	89.7
Delaware	7,002,000	3,500,600	50.0
Florida	2,500,000	1,696,695	67.9
Georgia	6,668,000	4,323,082	64.8
Idaho	1,773,000	995,005	56.1
Illinois	36,681,000	17,433,101	47.5
Indiana	33,596,000	15,171,000	45.2
Iowa	43,652,000	8,806,792	20.2
Kansas	19,816,000	6,280,078	31.7
Kentucky	5,263,000	3,602,650	68.5
Louisiana	1,981,000	2,237,186	112.9
Maine	1,886,000	1,261,652	66.9
	9,532,000	6,530,040	68.5
Maryland		3,603,740	52.8
Massachusetts	6,828,000		20.7
Michigan	13,376,000	2,764,000	41.5
Minnesota	35,952,000	14,936,168	
Mississippi	1,938,000	1,732,740	89.4
Missouri	39,542,000	12,281,670	31.1
Nebraska	15,760,000	1,248,800	7.9
New Hampshire	3,599,000	3,400,992	94.5
New Jersey	10,519,000	4,371,530	41.6
New Mexico	678,000	84,000	12.4
New York	10,804,000	4,394,363	40.7
North Carolina	9,393,000	7,076,920	75.3
North Dakota	3,243,000	3,297,035	101.7
Ohio	30,783,000	14,092,792	45.8
Oklahoma	11,500,000	4,599,392	40.0
Oregon.	4,909,000	275,500	5.6
Pennsylvania	23,744,000	104,528	0.4
Rhode Island	677,000	208,620	30.8
South Carolina	2,568,000	1,154,388	45.0
South Dakota	7,717,000	2,616,966	33.9
Tennessee	4,707,000	2,586,910	55.0
Texas	25,471,000	6,295,410	24.7
Utah	1,638,000	1,158,300	70.7
Vermont	407,000	329,663	81,0
Virginia	9,346,000	7,804,147	83.5
Washington	5,950,000	1,223,100	20.6
West Virginia	1,714,000	1,296,852	75.7
Wisconsin	12,873,000	2,702,800	21.0
	186,000	128,200	68.9
Wyoming	100,000	150,500	
Total	485, 285, 000	189,756,009	39.1
Total		100,000	i OJ. I

<sup>\*</sup> From Bureau of Agricultural Economics July 1944 report entitled "Hatchery Industry Shows Big Increase Since 1938"

Table 3 -- Hatchery supply-flock participation by States, 1943-44 compared with 1942-43, percentage increase or decrease, and average number of birds in supply flocks, 1943-44

	1942-43			3-44		increase	1943-44
State	Flocks	Birds	Flocks	Birds	or decr		average
					Flocks	Birds	per flock
Alabama	1,189	185,921	1,309	185,162		-0.4	141
Arizona	278	52,131	131	38,672	-52.9	-25.8	295
Arkansas	1,049	159,650	1,085	163,317	+3.4	+2.3	151
Colorado	780	155,954	795	178,368	+1.9	+14.4	224
Connecticut	275	387,357	369	395,680	+34.2	+2.1	1,072
Delaware	234	103,634	713	419,632	+204.7	+304.9	589
Florida	367	128,524	357	137,039		+ 6.6	384
Georgia	831	214,605	1,006	330,132		+53.8	328
Idaho	41.2	80,217	465	91,900		+14.6	198
Illinois	8,122	1,462,964	9,417	1,860,210		H27.2	198
Indiana	8,102	1,661,663	8,382	1,798,748	1	+ 8.2	215
Iowa	3,341	838,380	4,688	1,229,226		+46.6	262
Kansas	3,774	617,661	3,236	748,763		+21.2	231
Kentucky	3,105	372,045	3,595	432,997		+16.4	120
Louisiana	1,152	98,205	1,223	107,151		+ 9.1	88
Maine	565	469,498	628	557,272		+ 18.7	887
Maryland	1,368	392,251	1,815	488,826		+24.6	269
Massachusetts	329	473,740	459	519,784		+9.7	1,132
Michigan	804	235, 489	863	239,714	1	+1.8	278
Minnesota	3,316	1,074,193	3,860	1,331,802		+24.0	345
	754	77,504	804	80,789		+4.2	100
Mississippi Missouri		1,486,260	10,830	1,993,423	1	+34.1	184
	8,301		,				244
Nebraska	131	40,065	404	98,420		+145.7	
New Hampshire	554	993,667	749	865,961	3	-12.9	1,156 543
New Jersey	590	305,589	681	369,793	•	+21.0	
New Mexico	33	8,768	11	3,277		-62.6	298
New York	301	250,458	577	483,331		+93.0	838
North Carolina	2,387	528,045	2,835	711,850		+34.8	251
North Dakota	976	158,512	1,368	229,196		+44.6	168
Ohio	5,952	1,190,070	7,020	1,431,346		+20.3	204
Oklahoma	2,763	464,111	2,794	493,199		+ 6.3	177
Oregon	18	22,230	12	23,338		+ 5.0	1,945
Pennsylvania	0	0	54	13,735			254
Rhode Island	44	38,826	39	40,439		+4.2	1,037
South Carolina	216	45,505	412	76,804		+68.8	186
South Dakota	930	216,864	984	230,024		+6.1	234
Tennessee	2,160	246,316	2,145	263,608		+7.0	123
Texas	1,193	224,987	1,558	338,974	+30.6	+50.7	218
Utah	91	34,945	172	67,932	+89.0	+94.1	394
Vermont	168	93,490	128	105,359	_23.8	+12.7	823
Virginia	1,522	473,437	1,708	586,409	+12.2	+23.9	343
Washington	270	100,765	265	129,851	-1.9	+28.9	490
West Virginia	865	113,096	852	135,050	-1.5	+19.4	159
Wisconsin	900	248,784	997	298,136		+19.8	299
Wyoming	57	8,082	49		-14.0	-7.1	153
Carried State of the State of t		1				- (	
Total	69,569	16,534,458	81,844	20,332,048	1777 C	+23.0	248

Table 4 -- Estimated percentages of eggs needed by participating hatcheries in each State supplied by participating flocks in that State

Participating hatcheries	ing hatcheries  * supplied in State  Percent 54.2 00 138.1 00 81.0 00 142.2 00 76.4 00 119.9 00 80.8 00 76.4 00 92.4 00 92.4
Alabama 3,416,566 185,162 341,7 Arizona 279,584 38,672 28,00 Arkansas 2,016,278 163,317 201,60 Colorado 1,253,900 178,368 125,40 Connecticut 5,182,274 395,680 518,2 Delaware 3,500,600 419,632 350,16 Florida 1,696,695 137,039 169,70 Georgia 4,323,082 330,132 432,30 Idaho 995,005 91,900 99,50 Illinois 17,433,101 1,860,210 1,743,30 Indiana 15,171,000 1,798,748 1,517,10 Iowa 8,806,792 1,229,226 880,77 Kansas 6,280,078 748,763 628,00 Kentucky 3,602,650 432,997 360,30 Louisiana 2,237,186 107,151 223,70 Maine 1,261,652 557,272 126,20 Maryland 6,530,040 488,826 653,00 Massachusetts 3,603,740 519,784 360,40 Minnesota 14,936,168 1,331,802 1,493,40 Minnesota 14,936,168 1,331,802 1,493,40 Minnesota 14,936,168 1,331,802 1,493,40 Mississippi 1,732,740 80,789 173,30 Missouri 12,281,670 1,993,423 1,228,20 New Hampshire 3,400,992 865,961 340,10 New Jersey 4,371,530 369,793 437,20 New Jersey 4,371,530 369,793 437,20 New Jersey 4,394,363 483,331 439,40 North Carolina 7,076,920 711,850 707,70 North Dakota 3,297,035 229,196 329,70	* supplied in State  Percent 54.2 00 138.1 00 81.0 00 142.2 00 76.4 00 119.9 00 80.8 00 76.4 00 92.4 00 106.7
Alabama 3,416,566 185,162 341,76 Arizona 279,584 38,672 28,00 Arkansas 2,016,278 163,317 201,66 Colorado 1,253,900 178,363 125,46 Connecticut 5,182,274 395,680 518,28 Delaware 3,500,600 419,632 350,16 Florida 1,696,695 137,039 169,70 Georgia 4,323,082 330,132 432,36 Indiana 15,171,000 1,798,748 1,517,10 Indiana 15,171,000 1,798,748 1,517,10 Iowa 8,806,792 1,229,226 880,70 Kansas 6,280,078 748,763 628,00 Kentucky 3,602,650 432,997 360,30 Maine 1,261,652 557,272 126,20 Maryland 6,530,040 488,826 653,00 Massachusetts 3,603,740 519,784 360,40 Michigan 2,764,000 239,714 276,40 Minnesota 14,936,168 1,331,802 1,493,40 Mississippi 1,732,740 80,789 173,30 Missouri 12,281,670 1,993,423 1,228,20 New Hampshire 3,400,992 865,961 340,10 New Jersey 4,371,530 369,793 437,20 New Mexico 84,000 3,277 8,44 North Carolina 7,076,920 711,850 707,70 North Dakota 3,297,035 229,196 329,70	Percent  54.2  138.1  00 81.0  142.2  00 76.4  119.9  00 80.8  00 76.4  00 92.4  106.7
Arizona 279,584 38,672 28,00 Arkansas 2,016,278 163,317 201,60 Colorado 1,253,900 178,363 125,40 Connecticut 5,182,274 395,680 518,26 Delaware 3,500,600 419,632 350,16 Florida 1,696,695 137,039 169,70 Georgia 4,323,082 330,132 432,30 Idaho 995,005 91,900 99,500 Illinois 17,433,101 1,860,210 1,743,30 Indiana 15,171,000 1,798,748 1,517,10 Iowa 8,806,793 1,229,226 880,70 Kansas 6,280,078 748,763 628,00 Kentucky 3,602,650 432,997 360,30 Louisiana 2,237,186 107,151 223,70 Maine 1,261,652 557,272 126,20 Maryland 6,530,040 488,826 653,00 Massachusetts 3,603,740 519,784 360,40 Minnesota 14,936,168 1,331,802 1,493,40 Minnesota 14,936,168 1,732,740 80,789 173,300 Missouri 12,281,670 1,993,423 1,228,20 New Hampshire 3,400,992 865,961 340,10 New Jersey 4,371,530 369,793 437,20 New Mexico 84,000 3,277 8,40 North Carolina 7,076,920 70,700 North Dakota 3,297,035 229,196 329,70	54.2       138.1       100     81.0       142.2     76.4       119.9     80.8       100     76.4       119.9     80.8       100     76.4       100     76.4       100     76.4       100     76.4       100     76.7
Arizona 279,584 38,672 28,00 Arkansas 2,016,278 163,317 201,60 Colorado 1,253,900 178,363 125,40 Connecticut 5,182,274 395,680 518,26 Delaware 3,500,600 419,632 350,16 Florida 1,696,695 137,039 169,70 Georgia 4,323,082 330,132 432,30 Idaho 995,005 91,900 99,500 Illinois 17,433,101 1,860,210 1,743,30 Indiana 15,171,000 1,798,748 1,517,10 Iowa 8,806,793 1,229,226 880,70 Kansas 6,280,078 748,763 628,00 Kentucky 3,602,650 432,997 360,30 Louisiana 2,237,186 107,151 223,70 Maine 1,261,652 557,272 126,20 Maryland 6,530,040 488,826 653,00 Massachusetts 3,603,740 519,784 360,40 Minnesota 14,936,168 1,331,802 1,493,40 Minnesota 14,936,168 1,732,740 80,789 173,300 Missouri 12,281,670 1,993,423 1,228,20 New Hampshire 3,400,992 865,961 340,10 New Jersey 4,371,530 369,793 437,20 New Mexico 84,000 3,277 8,40 North Carolina 7,076,920 70,700 North Dakota 3,297,035 229,196 329,70	138.1 81.0 142.2 76.4 119.9 80.8 90 76.4 92.4 106.7
Arizona Arkansas	138.1 81.0 142.2 76.4 119.9 80.8 76.4 90 76.4 92.4 106.7
Arkansas	81.0 142.2 76.4 119.9 80.8 76.4 90 92.4 106.7
Colorado         1,253,900         178,368         125,44           Connecticut         5,182,274         395,630         518,26           Delaware         3,500,600         419,632         350,16           Florida         1,696,695         137,039         169,70           Georgia         4,323,082         330,132         432,30           Idaho         995,005         91,900         99,50           Illinois         17,433,101         1,860,210         1,743,33           Indiana         15,171,000         1,798,748         1,517,10           Iowa         8,806,792         1,229,226         880,70           Kansas         6,280,078         748,763         628,00           Kentucky         3,602,650         432,997         360,30           Louisiana         2,237,186         107,151         223,70           Maine         1,261,652         557,272         126,20           Maryland         6,530,040         438,826         653,00           Missachusetts         3,603,740         519,784         360,40           Mississippi         1,732,740         1,993,423         1,283,20           Missouri         12,281,670         1,993,423         <	142.2 76.4 119.9 00 80.8 00 76.4 00 92.4 106.7
Connecticut         5,182,274         395,680         518,26           Delaware         3,500,600         419,632         350,16           Florida         1,696,695         137,039         169,76           Georgia         4,323,082         330,132         432,30           Idaho         995,005         91,900         99,50           Illinois         17,433,101         1,860,210         1,743,30           Indiana         15,171,000         1,798,748         1,517,10           Iowa         8,806,792         1,229,226         880,77           Kansas         6,280,078         748,763         628,00           Kentucky         3,602,650         432,997         360,30           Louisiana         2,237,186         107,151         223,70           Maine         1,261,652         557,272         126,20           Maryland         6,530,040         488,826         653,00           Massachusetts         3,603,740         239,714         276,40           Minmesota         14,936,168         1,331,802         1,493,40           Missouri         12,281,670         1,993,423         1,228,20           New Hampshire         3,400,992         865,961	76.4 119.9 00 80.8 00 76.4 00 93.4 106.7
Delaware       3,500,600       419,632       350,10         Florida       1,696,695       137,039       169,70         Georgia       4,323,082       330,132       432,30         Idaho       995,005       91,900       99,50         Illinois       17,433,101       1,860,210       1,743,30         Indiana       15,171,000       1,798,748       1,517,10         Iowa       8,806,793       1,229,226       880,70         Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         New Hampshire       3,400,992       865,961       340,1	119.9 80.8 90 76.4 92.4 106.7
Florida         1,696,695         137,039         169,70           Georgia         4,323,082         330,132         432,30           Idaho         995,005         91,900         99,50           Illinois         17,433,101         1,860,210         1,743,30           Indiana         15,171,000         1,798,748         1,517,10           Iowa         8,806,793         1,229,226         880,70           Kansas         6,280,078         748,763         628,00           Kentucky         3,602,650         432,997         360,30           Louisiana         2,237,186         107,151         223,70           Maine         1,261,652         557,272         126,20           Maryland         6,530,040         488,826         653,00           Massachusetts         3,603,740         519,784         360,40           Michigan         2,764,000         239,714         276,40           Minnesota         14,936,168         1,331,802         1,493,40           Missouri         12,281,670         1,993,423         1,228,20           New Hampshire         3,400,992         865,961         340,10           New York         4,394,363         483,331	80.8 76.4 92.4 106.7
Georgia       4,323,082       330,132       432,36         Idaho       995,005       91,900       99,56         Illinois       17,433,101       1,860,210       1,743,36         Indiana       15,171,000       1,798,748       1,517,10         Iowa       8,806,792       1,229,226       880,76         Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40	76.4 92.4 106.7
Idaho       995,005       91,900       99,56         Illinois       17,433,101       1,860,210       1,743,30         Indiana       15,171,000       1,798,748       1,517,10         Iowa       8,806,793       1,229,226       880,70         Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississisppi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40	92.4 106.7
Illinois       17,433,101       1,860,210       1,743,30         Indiana       15,171,000       1,798,748       1,517,10         Iowa       8,806,792       1,229,226       880,70         Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississisppi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,19	106.7
Indiana   15,171,000   1,798,748   1,517,10   10wa   8,806,793   1,229,226   880,70   Kansas   6,280,078   748,763   628,00   628	
Iowa       8,806,792       1,229,226       880,70         Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississisppi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	118.6
Kansas       6,280,078       748,763       628,00         Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Kentucky       3,602,650       432,997       360,30         Louisiana       2,237,186       107,151       223,70         Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Louisiana 2,237,186 107,151 223,70 Maine 1,261,652 557,272 126,20 Maryland 6,530,040 488,826 653,00 Massachusetts 3,603,740 519,784 360,40 Michigan 2,764,000 239,714 276,40 Minnesota 14,936,168 1,331,802 1,493,40 Mississippi 1,732,740 80,789 173,30 Missouri 12,281,670 1,993,423 1,228,20 Nebraska 1,248,800 98,420 124,90 New Hampshire 3,400,992 865,961 340,10 New Jersey 4,371,530 369,793 437,20 New Wexico 84,000 3,277 8,40 New York 4,394,363 483,331 439,40 North Carolina 7,076,920 71,850 707,70 North Dakota 3,297,035 229,196 329,70	
Maine       1,261,652       557,272       126,20         Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Maryland       6,530,040       488,826       653,00         Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Wexico       84,000       3,277       8,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Massachusetts       3,603,740       519,784       360,40         Michigan       2,764,000       239,714       276,40         Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Michigan       2,764,000       239,714       276,46         Minnesota       14,936,168       1,331,802       1,493,46         Mississippi       1,732,740       80,789       173,36         Missouri       12,281,670       1,993,423       1,228,26         Nebraska       1,248,800       98,420       124,96         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Minnesota       14,936,168       1,331,802       1,493,40         Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Mississippi       1,732,740       80,789       173,30         Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Wexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Missouri       12,281,670       1,993,423       1,228,20         Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
Nebraska       1,248,800       98,420       124,90         New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
New Hampshire       3,400,992       865,961       340,10         New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
New Jersey       4,371,530       369,793       437,20         New Mexico       84,000       3,277       8,40         New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	
New Mexico     84,000     3,277     8,40       New York     4,394,363     483,331     439,40       North Carolina     7,076,920     711,850     707,70       North Dakota     3,297,035     229,196     329,70	
New York       4,394,363       483,331       439,40         North Carolina       7,076,920       711,850       707,70         North Dakota       3,297,035       229,196       329,70	1
North Carolina 7,076,920 711,850 707,70 North Dakota 3,297,035 229,196 329,70	
North Dakota 3,297,035 229,196 329,70	
	·
Oklahoma 4,599,392 493,199 459,90	
Oregon 275,500 23,338 27,50	
Pennsylvania 104,528 13,735 10,50	
Rhode Island 208,620 40,439 20,90	
South Carolina 1,154,388 76,804 115,40	
South Dakota 2,616,966 230,024 261,70	
Tennessee 2,586,910 263,608 258,70	0 101 0
Texas 6,295,410 338,974 629,50	101.9
Utah 1,153,300 67,832 115,80	53.8
Vermont         329,663         105,359         33,00	53.8 58.6
Virginia 7,804,147 586,409 780,40	53.8 58.6 319.3
Washington 1,223,100 129,851 122,30	53.8 58.6 319.3
West Virginia 1,296,852 135,050 129,70	53.8 58.6 319.3 75.1
Wisconsin 2,702,800 298,136 270,30	53.8 58.6 50 319.3 75.1 106.2
Wyoming 128,200 7,509 12,80	53.8 58.6 319.3 75.1 100 106.2 104.1
	53.8 58.6 319.3 75.1 106.2 104.1 110.3
Total 189,756,009 20,332,048 18,975,60	53.8 58.6 319.3 75.1 106.2 104.1 110.3

\* Based on estimated 1000 birds needed to supply hatching eggs for 10,000 egg capacity.

Table 5 -- The use of males of improved breeding in hatchery-supply flocks as reported by 22 States in schedules A & B, A. H. Form 519

			No. bir	ds in U.S.	.Approved	flocks	in o ed-
Stote	Total number birds in supply flocks	Number of birds in U. S. Certified flocks	Mated with males from single-male U.S.R.O.P. mating	Meted with males from U.S.R.O.P. flock matings	Mated with males from U. S. Certified flocks	Mated with privately pedigreed males	Percent of all birds in supply_flocks_mated to males of improved breeding
Arizona Colorado Connecticut Florida Georgia Illinois Iowa Kentucky Louisiana Maryland Michigan Mississippi Missouri Nebraska North Dakota Oklahoma South Carolina South Carolina South Dakota Texas Utah Washington Wyoming	38,672 178,368 395,680 137,039 330,132 1,860,210 1,229,226 432,997 107,151 488,826 239,714 80,789 1,993,423 98,420 229,196 493,199 76,804 230,024 338,974 67,832 129,851 7,509	0 17,036 24,554 24,124 25,319 39,271 4,824 39,634 10,603 11,061 82,660 4,475 14,272 10,888 16,705 27,202 16,980 485 36,052 25,539 44,892 557	439 54,552 * 0 33,911 34,709 66,797 1,356 0 2,474 27,208 6,868 418,024 0 0 27,011 7,282 395 37,428 147 6,168 557	25 0 * 3,670 * 55,385 * 729 0 2,112 158 0 0 0 * 1,082 2,356 16,366 12,424 12,941 0	905 1,201 * 16,587 21,060 30,434 864 4,749 8,967 27,298 11,724 213,248 28,245 39,899 40,888 5,363 34,738 19,320 2,614 21,064 401	799 360 1,059 3,523 22,365 5,276 65,168  407 5,240 14,121 1,766 124,701 2,097 0 9,021 619 17,149 8,286 10,197 24,789 1,736	5.6 41.0 6.5 20.2 30.9 5.4 18.1 9.7 15.4 5.7 64.0 30.9 38.6 41.9 24.7 21.1 40.8 24.0 34.6 75.1 84.6 43.3
Totaļ	9,184,036	477,133	725,326	107,248	529,569	318,679	23.5

<sup>\*</sup> No data received

Table 6 -- Hatchery and hatchery-supply flock participation by breeding stages and pullorum-control and eradication classes, 1943-44

Breeding stage and	*Number	i Hato	cheries	Sun	ply flocks
pullorum class	States	Number		flocks	Birds
		Alpen market account of the specimen and the second			
U.S. Approved,					
Pullorum-Tested	34	1,476	120,504,221	42,007	8,181,578
U.S. Approved,			i, de la companya di managaran		
Pullorum-Controlled	37	583	37,303,854	28,971	6,589,892
U.S. Approved,		F			. 10
Pullorum-Passed	20	28	809,044	2,710	751,798
U.S. Approved,				1.5	
Pullorum-Clean.	18	159	6,837,463	1,359	1,041,400
U.S. Approved Stage	To draw the				,
Total	45	2,246	165,454,582	75,047	16,564,668
U.S. Certified,					
Pullorum-Tested	29 .	59	2,628,070	1,170	342,593
U.S. Certified,		The state of the s			
Pullorum-Controlled	35	150	5,715,936	2,791	1,133,820
U.S. Certified,		·			
Pullorum-Passed	12	12	197,055	221	70,015
U.S. Certified,					
Pullorum-Clean	23	72	2,448,924	142	257,979
U.S. Certified Stage	4-				70.004.400
Total	41	293	10,989,985	4,324	1,804,407
				Penny equilibration	
		-			
No Breeding Stage					Wai 0.00
U.S. Pullorum-Tested	4	17	620,514	60.	31,923
No Breeding Stage	_	10	0 070 007	701	7.00 777
U.S. Pullorum-Controlled	5	49	2,879,693	364	189,337
No Breeding Stage U.S. Pullorum-Passed	7.0	CC	0 550 000	500	757 660
and the second s	10	66	2,550,908	589	357,669
No Breeding Stage	7.0	400	7.000 707	7 400	7 704 044
U.S. Pullorum-Clean Total - U.S. Pullorum-	10	409	7,260,327	1,460	1,384,044
Control and eradication onl	y 12	541.	13,311,442	2,473	1,962,973
Control and eradication onl	.y 12	うます。	10,011,42	2,510	1,300,370
			1.	,	
Total participation	45	3,080	189,756,009	81,844	20, 332, 048
TO ACIT AT AT AT AT AT AT AT	-£	0,000	100,100,000	OT, OZZ	DU, COE, UTO

<sup>\*</sup> Number of States that have one or more hatcheries or flocks participating in the breeding stage or pullorum class indicated.

Table 7 -- Hatchery and hatchery-supply flock participation by breeding stages, 1936-1944

			U. S. Approved				
		Hato	cheries	Supp	Supply flocks		
Year	States	Number!	Capacity	Number	Birds		
1935-36	26	668	34,891,113	22,110	2,805,214		
1936-37	31	968	45,634,537	28,141	4,903,129		
1937-38	33	981	48,135,020	26,149	4,287,283		
1938-39	37	1,219	61,337,972	39,402	6,480,143		
1939-40	40	1,435	75,066,154	46,508	7,859,086		
1940-41	42	1,611	98, 294, 123	53,187	8,734,279		
1941-42	44	1,810	115,030,293	62,572	11,679,005		
1942-43	44	2,013	131,143,411	63,355	13,111,155		
1943-44	45	2,246	165,454,582	75,047	16.564.668		

		U. S. Certified					
		Hatch	heries	Supply	flocks		
Year	States	Number	Capacity	Number	Birds		
1935-36	14	91	984,132	672	266,824		
1936-37	23	173	4,495,321	981	687,006		
1937-38	27	182	5,323,806	1,004	506,776		
1938-39	31	197	5,006,002	987	566,795		
1939-40	34	208.	5,360,130	1,701	758,166		
1940-41	39	251	6,534,314	3,378	1,273,101		
1941-42	39	279	7,610,997	4,571	1,587,742		
1942-43	39	264	8,304,541	4,471	1,673,979		
1943-44	41	293	10,989,985	4,324	1,804,407		

		No bree	eding stage - U.	S. Pullorum classes only		
	op 2 common occ		Hatcheries		flocks	
Year	States	Number	Capacity	Number	Birds	
1935-36	3	249	1,657,000	968	435,487	
1936-37	8	98	2,461,928	1,436	945,772	
1937-38	11	312	6,957,496	1,643	1,144,392	
1938-39	11	613	9,252,008	2,174	1,583,858	
1939-40	13	546	10,124,598	2,308	2,079,188	
1940-41	13	601	13,067,867	2,535	1,989,268	
1941-42	15	577	13,084,889	2,492	2,238,106	
1942-43	10	452	9,987,882	1,743	1,749,324	
1943-44	12	541	13,311,442	2,473	1,962,973	

Table 8 -- Hatchery and hatchery-supply flock participation by pullorum classes, 1936-1944

	U.S. Pullorum-Tested					
	Hatch	eries	Supply flocks			
Year	Number	Capacity	Number	Birds		
1935-36	461	17,756,504	11,839	1,746,751		
1936-37	619	27,040,921	17,524	3,051,051		
1937-38	653	29,870,516	16,195	2,800,237		
1938-39	998	47,055,524	30,805	5,184,120		
1939-40	1,157	58,394,872	37,860	6,522,647		
1940-41	1,342	80, 289, 299	46,637	7,878,480		
1941-42	1,435	95,831,500	47,313	8,596,461		
1942-43	1,401	100,171,297	36,503	6,758,383		
1943-44	1,552	123,752,805	43,237	8,556,094		

	U.S. Pullorum-Controlled						
	Hatc	ne <b>rie</b> s	Supply flocks				
Year	Number	Capacity	Number	Birds			
1941-42	264	13,025,532	13,772	3,090,932			
1942-43	448	24,632,412	23,134	5,531,120			
1943-44	782	45,899,483	32,126	7,913,049			

	U.S. Pullorum-Passed					
	Hatch	neries	Supply	flocks		
Year	Number	Capacity	Number	Birds		
1935-36	40	*	130	48,771		
1936-37	74	1,292,500	452	613,741		
1937-38	100	2,233,137	610	444,606		
1938-39	189	2,861,394	914	607,143		
1939-40	149	4,454,825	2,341	1,033,088		
1940-41	158	5,379,909	2,883	1,121,180		
1941-42	121	4,468,358	3,026	909,040		
1942-43	116	3,499,971	4,568	1,021,776		
1943-44	106	3,557,007	3,520	1,179,482		

	U.S. Pullorum-Clean								
	Hatcher	ries	Supply fl	ocks					
Year	Number	Capacity	Number	Birds					
1935-36	139	*	169	257,577					
1936-37	81	1,264,886	384	552,941					
1937-38	264	4,639,586	542	692,776					
1938-39	474	6,232,175	799	980,768					
1939-40	486	6,638,709	1,532	1,435,134					
1940-41	549	9,048,386	2,220	1,528,286					
1941-42	616	12,241,413	2,361	2,310,216					
1942-43	585	11,399,448	2,785	2,588,732					
1943-44	640	16,546,714	2,961	2,683,423					

<sup>\*</sup> Data not available.

Table 9 -- Hatchery and hatchery-supply flock participation, 1936-1944

61,609	81,844
54,755	69,569
50,897	69,681
47,836	59, 136
41,322	50,559
37,276	42,591
40,949	28, 820
42,447	30,558
37,430	23,813
Average egg	Number
singellen spelingen, distres girtera, glaterga	The second secon

Table 10 -- Number and percentage of hatchery-supply birds in each pullorum class, 1936-1944

Item	PT	PCd	PP	PC	Total
1935-36					
Birds	1,746,751		48,771	257,577	2,053,099
*Precent of total	85		2	13	100
1936-37				1	100
Birds	3,051,051		613,741	552,941	4,217,733
Percent of total	72	eg namenters	15	13	100
1937-38		,			
Birds	2,800,237		444,606	692,776	3,937,619
Percent of total	71		11	18	100
1938-39		-			
Birds	5,184,120		607,143	980,768	6,772,031
Percent of total	77		9	14	100
1939-40		,			
Birds	6,522,647		1,033,088	1,435,134	8,990,869
Percent of total	73		11	16	100
1940-41	11,=	e pje se			
Birds	7,878,480	. %%, 5 5%	1,121,180	1,528,286	10,527,946
Percent of total	75	1	11	14	100
1941-42					
Birds	8,596,461	3,090,932	909,040	2,310,216	14,906,649
Percent of total	58	21	6	15	100
1942-43			•	11	· ·
Birds	1	5,531,120	1,021,776	2,588,732	15,900,011
Percent of total	43	35	6	16	100
1943-44	. "	The second secon			
Birds		7,913,049	1,179,482	2,683,423	20,332,048
Percent of total	42	39	6	13	100

<sup>\*</sup> Refers to birds, not to flocks.

Table 11 -- U.S. Record of Performance participation by States, 1943-44

Q1 1	Number	Number	Pullets	Birds	Birds		R.O.P.
State	of	of	on	entered	qualified		ding pens
	breeders	flocks	farm	fall, '43	fall, '43	Pens	Females
Alabama	17	24	10,264	3,140	915	63	788
Arizona	1	2	347	5	25	6	57
Arkansas	3	5	1,890	982	217	16	256
Colorado	3	3					479
Connecticut	7		5,199	2,193	647	26	
		12	24,960	5,068	1,206	158	1,712
elaware	1	2	6,800	1,325	63	16	78
lorida	5	6	21,650	3,717	797	45	594
eorgia	10	17	7,428	2,521	764	68	881
daho	2	2	2,075		221	27	341
llinois	10	19	13,607	4,572	584	92	421
Indiana	11	22	74,380		3,970	259	4,404
Iowa	7	18	12,702	5,999	1,554	1.19	1,171
Cansa <b>s</b>	9	14	8,398	5,448	835	103	1,278
Centucky	5	6	3,261	1,975	126	33	419
Louisiana	14	16	3,919	1,745	95	21	238
<b>Sary</b> land	7	- 8	8,835	2,621	584	47	683
Sassachusetts	16	18	66,814	15,276	6,191	299	3,668
lichigan	11	21	14,464	6,934	1,881	177	2,606
linnesota	9	11	21,434	3,410	3,795	224	4,603
Mississippi	2	2	5,500	2,300	631	26	533
lissouri	17	26	6,213	1	1,661	208	2,435
Nebraska	3	4	4,524		435	22	382
New Hampshire	11	13	47,997	5,520	2,434	149	1,549
New Jersey	11	15	17,135		770	80	883
New York	13	17	34,819	5,512	988	92	1,314
Worth Carolina	14	17	27,365	2,972	1,277	102	1,395
North Dakota	2	3	452	452	66	9	130
Dhio	16	18	25,610		2,750	211	3,354
Oklahoma	6	7	2,463		217	59	706
regon	6	6	10,517	4,017	2,564	103	1,777
Pennsylvania	3	5	3,792		1,150	66	977
South Carolina	9	10	5,850	2,562	800	64	738
South Dakota	1	3	252			000 000	COLO 2000
Tennessee	4	6	5,830		252	20	272
l'exas	12	14	17,645	1	2,652	115	2,105
Jtah	6	8	13,965	1	407	34	482
Vermont	3	- 5	5,583	1	294	26	329
Vermont	7	7	10,096		859	65	980
	7		7,900	}	634	53	781
Washington	1	9	1	1	254	23	347
West Virginia	3	6	1,483				
Visconsin	15	18	22,650		2,031	187	3,034
Nyoming	1	2	300	352	151	5	100
		447		159,534	47,711	3,518	49,280

Table 12 -- U.S. Record of Performance participation by breeds and varieties, 1943-44

					U.S.R	.O.P.	Control of the Contro
Breed and	7.7	Pullets	Birds	Birds		ng pens	
variety	No. of flocks	on	entered	qualified		Ti =	Males
7 Wat no O V, Y	TIOCKS	farm	1all, 40	fall, '43	rens	Females	
Single-Comb				Andrew Comments of the Comment			
White Leghorns	164	327,101	79,555	26,110	1,630	27,228	66,124
Carrier Contra			To de la constitución de la cons	To a second seco			
Single-Comb Rhode Island Reds	57	00 707	00 107	~ 444	400		
ratione rataing mens	57	89,367	22,103	7,444	490	5,827	11,694
Barred				,			
Plymouth Rocks	65	46,631	17,215	4,132	408	4,757	5,377
37 . 77							
New Hampshires	79	87,553	19,791	5,110	407	4,527	9,141
White				-			
Plymouth Rocks	56	30,173	16,886	4,238	472	5,797	7,202
11-11-11-11-11-11-11-11-11-11-11-11-11-				,		,,,,,,	. , , , , , ,
White Wyandottes	11	2,607	1,791	382	. 60	647	1,220
Black Australorps	7.	1,635	1,268	218	24	017	700
-raor as or error ha		1,000	1,500	210	15/5	247	326
White Minorcas	. 1	450	171	29	10	102	374
7						Balance	
Buff Orpingtons .	2	231	211	18	6	54	46
Buff							
Plymouth Rocks	1	125	58	7	2	10	dive mind
						7	
Rose-Comb	1.				1		
Rhode Island Whites	1:	, 275	275	. 21	8	. 82	35
Black Minorcas	1	135	98	map cates	ange stant		26
							2,0
Light Brahmas	1	35	36	2	1	2	anny freig
Buff Minorcas		50	200				
Duri Minorcas	1	50	76	Quay 4945	o-10 -100	gas cod	Contin don't
4				4. 1			
Total	447	586,368	1.59 . 534	47,711	3,518	49 280	101,565
	and the second second				7,720		

Table 13 -- U.S. Record of Performance participation by years, 1936-1944

The state of the s		1				Annual Completion of the part of the control of the		Principal Projectific materials of the attendant to the authorized position and tendents.	internalimental virtua de descripto de glas contituendos costas.
49,280	3,518	101,565	*	*	159, 534	7447	320	42	1943-44
45, 964	3, 261	111,815	31.5	٦٦٦, 711	151,685	435	326	42	1942-43
148,841	2,999	98,499	31.7	50,660	160,022	425	317	04	1941-42
38, 957	2,749	83, 955	30.6	47,493	154,969	1445	335	42	1940-41
32,949	2,429	53,069	29.7	42,858	744,444	429	335	Ť.	1939-40
30,081	2,206	*	27.7	34,634	124,937	396	317	36	1938-39
26,135	1,966	*	30.4	32,920	108,183	353	298	33	1937-38
22, 322	1,675	*	*	*	112,202	352	301	31	1936-37
*	*	*	*	, *	66,547	190	*	27	1935-36
Females	Pens	Males	Percent	Females	entered	free application of the seafferness of the seaffern		er an de de la completa del la completa de la completa del la completa de la completa del la completa de la completa de la completa del la completa	
matings	un.		Qualified	ရွား	Female candidates	Flocks	Breeders	States	Year
dermite de galera de la companya de	And the same of th	An eminate and a second and a s		And the second desirement of the second desire		eren, ultinin ultifrina, terapalimen, detempatemen, femensa femina	-	Asymmetric and material contracts of contracts of the contract	

Information not available

Table 14 -- Distribution of U.S.R.O.P. flocks according to the number of breeding pens

	1942-43	flocks	1943-44	flocks
Number of		Percent		Percent
breeding pens	Number	of total	Number	of total
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 to 19 20 to 29 30 to 39 40 ‡	58 32 34 22 32 23 37 14 40 13 36 17 20 10 8 15 12 6	13.3 7.4 7.8 5.1 7.3 5.3 8.5 3.2 9.2 3.0 8.3 3.9 4.6 2.3 percent 1.8 with 3.4 8 or 2.8 more breeding 1.4 pens	87 26 29 29 34 32 22 10 32 22 30 11 26 12 11 26 16 5	15.0 5.8 6.5 6.5 7.6 7.2 4.9 2.2 7.2 4.9 6.7 2.5 5.8 44.3 percent with 5.8 8 or 3.6 more 1.1 breeding 1.6 pens
Total	435		447	

Table 15 -- Distribution of U.S.R.O.P. flocks according to the number of candidates

	1942-43	<b>&gt;</b>	1943	3-44
Number of	Number		Number	
candidates	flocks	Percent	flocks	Percent
None 1 - 99 100 - 199 200 - 299 300 - 399 400 - 499 500 - 599 600 - 699 700 - 999	15 90 75 70 66 31 29 16	3.4 20.7 17.2 16.1 15.2 7.1 6.7 3.7 27.4 5.1 percent	23 80 84 69 61 31 29 23	5.1 17.9 18.8 15.5 13.7 6.9 6.5 5.1 29.0 4.9 percent
1000 - 1999	14	3.2 400 or	17	3.8 400 or
2000 +	7	1.6 more candidates	8	1.8 more candidates
Total	435		447	

Table 16 -- A comparison of the number of days each week trap-nesting is performed

		BREEDERS			FLOCKS		
Amount of trap-nesting in home U.S.R.O.P.	Number	Percent of breeders	Percent of all breeders trapping	Number	Percent of flock	Percent of flocks trapped	
Laying test only	13	4.1		17	3.8		
Supervision only	7	2.2	2- 1	8	1.8		
5-day trapping	115	35.9	38.3	163,	36.5	38.6	
6-day trapping	2	0.6	0.7	3	0.7	0.7	
7-day trapping	183	57.2	61.0	256	57.2	60.7	
Total	320	100.0	100.0	,447	100.0	100.0	

Table 17 -- U.S. Record of Performance participation by pullorum-control and eradication classes, 1943-44

	Number	Number	Number	Number	U.S.R.O	.P. matings
Pullorum Class	breed-	flocks	pullets	candidates	Number	Females
	ers		on farm	entered		
U.S. Pullorum-Tested	70	112	61,929	28,398	652	8,314
U.S. Pullorum-Controlled	163	<b>2</b> 23	276,512	80,930	1,701	25, 739
U.S. Pullorum-Passed	10	12	15,054	3,723	62	777
U.S. Pullorum-Clean	77	100	232,873	46,483	1,103	14,450
Total	320	447	586,368	159,534	3,518	49,280