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Data Concerning the Egg and Broiler Industries

of

Indiana

by

R. L. Kohls, Department of Agricultural Economics

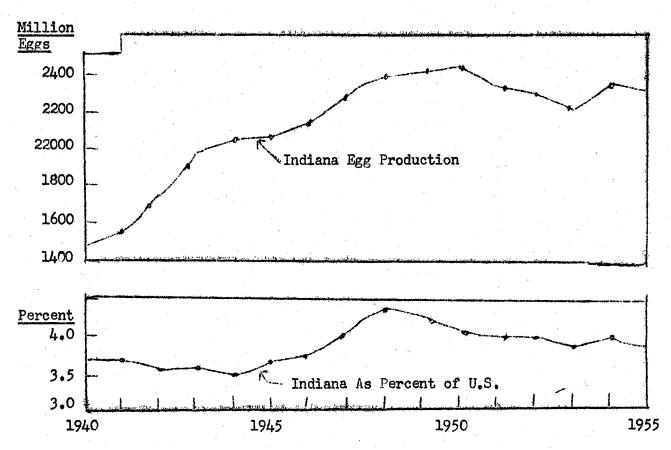
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- 1. Considering the entire 15 year period, egg production in Indiana has increased at an average rate of 3% a year. However, since 1950, production has tended to decline slightly.
- 2. From 1944 through 1948, Indiana egg production increased more rapidly than the U.S. From 1949 through 1951, it grew less rapidly than U.S. Since 1951, Indiana egg production has kept pace with U.S. developments—supplying about 4% of the nations eggs. In 1940, Indiana ranked 10th among the states in egg production; in 1955, 8th.

Item 2. Egg Production As A Percent of U.S. Total For Selected States

	1940-44	1945-49	1950-54
	Pe	rcent of U.S.	<u> </u>
Indiana	3.6	4.1	4.0
Illinois	4.9	4.9	5.0
Iowa	7.3	7.7	8.0
Michigan	3.0	2.8	2.8
Minnesota	5.9	6,8	6.7
Ohio	5.0	4.6	4.2

- 1. Iowa, Minnesota and Illinois have tended to increase their productions at a more rapid rate than the U.S.
- 2. Michigan and Ohio have not kept pace with the U.S. expansion.

Item 3. Estimated Indiana Surplus Egg Production Over Consumption, 1940-1954

	Surplus _			
	Millions of Egg	s % Total	Production	
1940-44	633	36		
1945-49	852	38		
1950-54	752	32		

(Consumption estimated by use of population and U.S. Average Consumption Data)

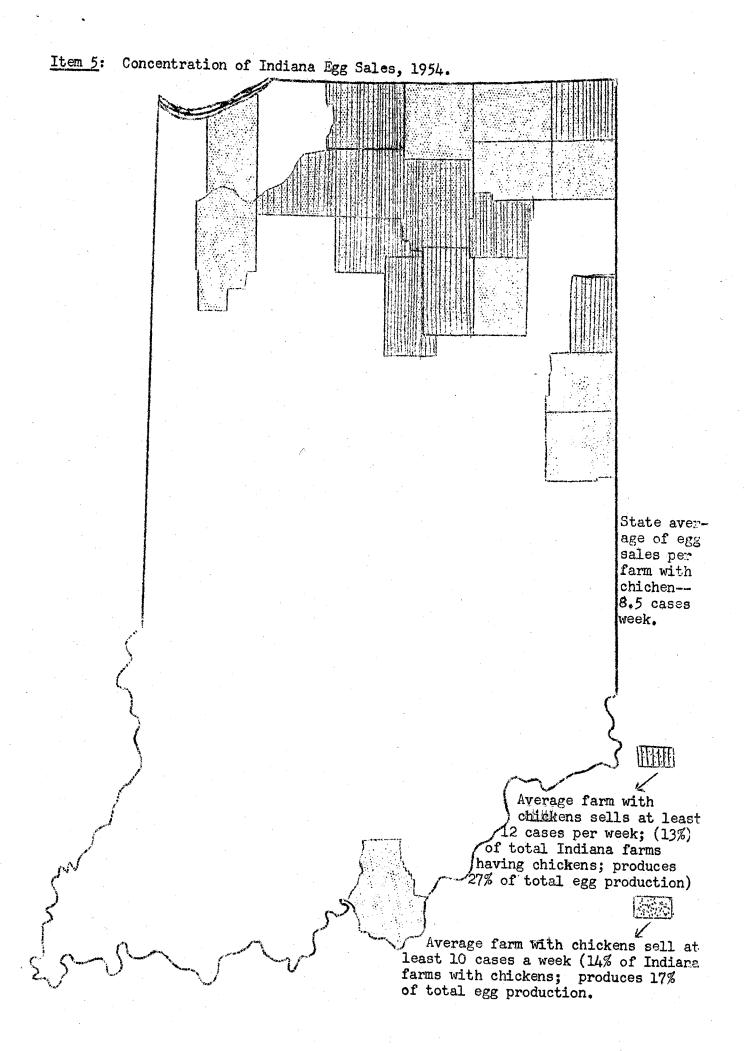
- 1. Though Indiana is still a large surplus egg state, the "home market" has grown more rapidly than has production during the past 5 years.
- 2. Though the data are not given here, the following conclusions are possible:
 - (a) N.Y., Pennsylvania, and New Jersey are still major egg deficit states.
 - (b) Ohio and Michigan are egg deficit states and their deficit is increasing.
 - (c) Illinois is an egg deficit state, but less so than 15 years ago.
 - (d) Minnesota and Iowa are large surplus states and their surplus is somewhat greater than 15 years ago.

Item 4. Relationship of Indiana Egg Prices to Selected Other Areas, by 5 Year Periods.

	Prices as percent of Indiana				
	1935-39	1940-44	1945-49	1950-54	
U.S.	109	107	110	111	
Indiana	100	100	100	100	
Illinois	99 94	99	96	94 90	
Iowa	94	97	94	90	
Michigan	110	107	112	111	
Minnesota	95	98	96	94	
Ohio	103	107	110	112	
N.Y., Penn., N.J.	138	130	136	139	
Indiana Average					
Prices	19.0	26.3	38.9	37.6	

Adapted from p. 65, "Trends in Poultry Industry - Effects in Midwest"

- 1. Though not great, there is a tendency for prices Indiana producers receive for eggs to be lower in relation to the national price. In general since 1935-39, Indiana egg prices have:
 - ---Strengthened relative to neighboring western states of Illinois Iowa and Minnesota.
 - Weakened relative to neighboring eastern states of Michigan and Ohio and the East coast states.



Item 6. Percentage of Farms Reporting Chickens On Hand

	1.940	1950	1954
U.S.	85	79	71
Indiana	85	77	67
Illinois	91.	83	
Iowa	93	86	•
Michigan	78	67	
Minnesota	82.	76	
Ohio	84	77	
N.Y., Penn., N.J.	76	68	

Item 7. Changes in Distribution of Flock Size, Selected Areas, 1940-1950.

	Under	100	100-	1.99	2003	99	400	over
	1940	1950	1940	1950 rcent of C	1940	1950	1940	1950
U.S. Indiana	42 43	31 28	27 35	24 35	17 15	21 22	14 7	24 15
Illinois Iowa Michigan Minnesota Ohio	32 14 45 23 37	24 10 39 8 31	46 42 30 90 35	42 36 28 27 34	19 38 17 31 19	26 42 22 46 22	3 6 8 6 9	8 12 16 19 13
N.Y., Penn.,	21	12	17	10	20	15	42	63

Source: Adopted from p. 66, "Trends in the Poultry Industry - Effects in the Midwest"

Movement Toward Specialization:

The change in flock-size distribution and the portion of farms having chickens might be taken as indications of specialization (Item 6 and 7)

For Indiana this might be summarised as follows:

1. From over 85% of farms having chickens in 1940, Indiana dropped to 67% in 1954. (In number of farms reporting Selling Eggs Indiana fell from 58% of total farms in 1950 to 48% in 1954; U.S. comparable figures were 45% and 35%.)

It would appear that this movement to fewer farms having chickens was moving at a more rapid pate in Indiana than in the U.S. as a whole. States surrounding Indiana were also "thinning flocks" at about the same note as Indiana.

2. Indiana is rapidly reducing the proportion of very small flocks, helding steady in the 100-200 bracket, and increasing the large flocks. This same situation has occurred in neighboring states of Ohio, Illinois and Michigan. However, the trend toward larger flocks has gone on much more rapidly in Iowa and Minnesota. Almost two-thirds of the N.Y., Penn., and N.J. Flocks would now be classified as large.

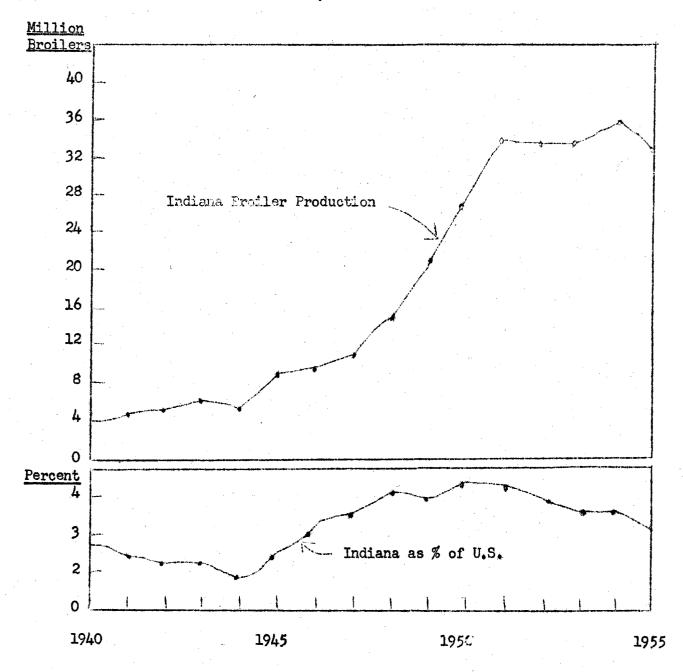
Item 8. Changes in Rate of Lay, Indiana and Surrounding States, 1940-44 and 1950-54.

	Eggs per pot	ential layer	Eggs per potential laver as percent of U.S. Average		
	on f	arms			
en e	1940 - 4#	1950 - 54	1940 - 44	1950 - 54	
U.S.	110	148	100	100	
Indiana	117	158	106	107	
Illinois	105	149	95	101	
Iowa	102	160	93	108	
Michigan	116	153	105	103	
Minnesota	118	160	107	108	
Ohio	119	156	108	105	
N.Y., Penn., N.J.	130	162	118	109	

Adapted from p. 62, "Trends in the Poultry Industry - Effects on Midwest"

- 1. Indiana Egg production per hen has increased at a slightly more rapid rate than the U.S.
- 2. Iowa and Illinois have made the most rapid improvement from their low rates of the early forties.
- 3. There is much less variation in the rate of lay now than there was 15 years ago.

Item 1. Indiana Broiler Production, 1940 - 1955.



- 1. Indiana broiler production grew very rapidly both absolutely and relative to the U.S. rate of growth from about 1945 through 1950.
- 2. Since 1950 Indiana production has stabilized while U.S. production has continued to increase the result is a declining percentage that Indiana broilers contribute to U.S. totals.

Item 2. Rates of Broiler Production Growth in Relation to U.S. of Selected Production Areas

Area	1940-44	1945-49	1950-54	1955
	Percent of	f U.S. Total	-	
Indiana	2.3	3.5	3.9	3.0
Alabama	1.3	1.6	2.9	504
Arkansa s	5.9	5.9	8.1	7.1
Delawarė-Maryland	34.5	22.3	16.7	11.9
Georgia	4.9	8.6	12.4	16.5
Mississippi	.6	1.3	3.4	3.5
N. Carolina	3.9	4.9	6.0	5.5
Virginia	7.7	7.4	7.0	5.1

Item 2 shows which areas have grown more or less rapidly than the total U.S. production (U.S. production has increased each year since 1940 with the exception of 1944. U.S. production in 1955 was 7.5 times larger than in 1940.) Recent growth relative to U.S. for areas other than Indiana can be summarized as follows:

Alabama: Rapid increase started 1952.

Arkansas: Slow decline since 1951.

Delaware-Maryland: Fairly constant at 11-13% since 1952.

Georgia: Rapid increase started in 1950. Mississippi: Fairly constant since 1952. N. Carolina: Fairly constant since 1953.

Virginia: Decline since 1953.

Item 3. Indiana Broiler Surpkus Over Estimated Indiana Consumption, 1940-1954.

olus
% of Supply
42
44
62
51

(Consumption estimated at U.S. average rates)

Indiana's potential broiler production surplus has continued to increase. However, since 1950, because of the slow-down in production growth and the increase in population, the portion of the supply which is potential surplus has decreased.

Indiana Broiler Prices and Their Relationship to U.S. and the Other Areas, 1940 - 1954.

Area	1940-44	1945-49	1950-54
		Percent of Indiana	
U.S.	99	98	9 9
Alabama	113	108	98
Arkansas	99	96	96
Delaware-Maryland	95	93	96
Georgia	100	96	96
Mississippi	103	101	97
N. Carolina	96	96	96
Virginia	101	97	95
Indiana Prices	24	32	27

Indiana broiler prices have been slightly above the U.S. average: And above the other major areas. Price movements in other areas relative to Indiana can be summarized as follows:

Alabama - decline

Arkansas - unchanged since end of W.W.II

Delaward-Maryland - relatively unchanged

Georgia - unchanged, since end of W.W.II

Mississippi - declined N. Carolina - relatively unchanged

Virginia - declined

Broiler Growing Mash and Broiler Feed Ratios in Important Areas 1953 1955.

Area		Feed Price	Br	oiler-feed ratio
Indiana	1953 4.95	1955 4.62	1953 5.6	1955 5•5
Alabama	5.56	5.18	4.9	4.7
Arkans as	5.05	4.79	5.2	5.1
Delaware-Maryland	5.10	4.82	5.2	5.3
Georgia	5.58	5.25	4.8	4.8
Mis sissippi	5.68	5.33	4.7	4.6
N. Carolina	5.40	5.12	4.8	4.8
Virginia	5.23	4.97	4.9	5.0
U.S.	5,26	5.00	5.1	5.0

- 1. Feed data has been available only since 1953. In interpreting feed costs one must remember, that the farmer often brings many other services when he brings feed-financing, etc. Probably the price differences among areas are partly due to these difference
- 2. There has been no change in the relative positions of Indiana feed prices when compared with other areas from 1953 to 1955. Relative ratios have also remained unchanged.

