

Presidency Islamic Republic of Iran
Plan and Budget Organization
Statistical Centre of Iran

Selected Results of Layer
Chicken Farms Census, the Year 1397

Symbols:

- Not collected
- 000** Not available
- × Not applicable
- ×× Not calculable
- // Negligible
- * Provisional
- ** Estimated figure
- ⊙ Not for publication (confidential figure)

Where figures are rounded, discrepancies may occur between sums of the components and the total. All ratios and indices were calculated before rounding

Preface

The survey on modern chicken farms which include two important industries: raising broiler chickens and raising layer chickens was conducted in the year 1397¹. In this survey, the last available list of national chicken farms in Iran which was prepared in the year 1391 for broiler chicken farms and in the year 1394 for the layer chicken farms, was used. In order to conduct this survey, 5958 man/ day enumerators, 1072 man/ day checkers, 688 man/day executive group leaders, 621 man/day experts, and 2979 man/day cars with driver were employed. The management and planning organizations in all provinces were in charge of carrying out the survey in their provinces. This survey started on the 19th of the month of Tir² and finished on 20th of the month of Mordad, the year 1397. To extract and disseminate the results of this survey, some designed software packages were used in a decentralized way.

In line with its duty to produce the basic information and statistics and to meet the statistical needs of the users, the Statistical Centre of Iran (SCI) began to implement the Survey on the Layer Chicken Farms in the year 1364 and continued it for the years 1370, 1373, 1375, 1378, 1380, 1382, 1385, 1388, 1390, 1391 and 1394.

Hereby, we acknowledge all colleagues in the Departments of Statistics and Information in Management and Planning Organizations in all provinces who were responsible for implementing the survey, and also unions and cooperatives of chicken farms as well as the chicken farms holders who had sincere and great cooperation in this survey. At the end, we hope the provided information may prove useful to the decision makers, planners and researchers in the chicken farms industry.

Statistical Centre of Iran

¹ . It is the Iranian year which usually begins on the day of 21 March of the Gregorian calendar. To find the corresponding year of the Gregorian calendar, add 621 or 622 (depending on the time of the year) to a [solar Hijri](#) year. For example, the corresponding year of the year 1397 in the Gregorian calendar is (21 March 2018-20 March 2019).

² . Iranian months and their equivalent in Gregorian calendar

Farvardin (21 March-20 April)	Mehr (23 September-22 October)
Ordibehesht (21 April-21 May)	Aban (23 October-21 November)
Khordad (22 May-21 June)	Azar (22 November-21 December)
Tir (22 June-22 July)	Dey (22 December-20 January)
Mordad (23 July-22 August)	Bahman (21 January-19 February)
Shahrivar (23 August-22 September)	Esfand (20 February-20 March)

Contents

Title	Page
Introduction	5
General specifications of the Survey	5
Definitions and concepts	6
Important findings	7
Important Notes	8
Statistical Tables.....	11
1.Number and Activity Status of Chicken Farms, the years 1370-1397	12
2.Edible Egg Production in the Layer Chicken Farms,the years 1374-1396.....	12
3. Layer Chicken Farms by Activity Status and Province, the Years 1396-1397....	13
4. Capacity of the Layer Chicken Farms by Activity Status and Province, the Years 1396-1397	14
5. Layer Chicken Farms by Number, Total Capacity of Halls, and Province, the Year 1397.....	15
6. Edible Egg Production in the Layer Chicken Farms , the year 1396.....	16
7. Number of Workers by sex and province-2017.....	17

Introduction

Chickens raising in a modern way in Iran started through importing one-day-old chickens or fertile eggs from breeding chickens in the year 1333. This industry has been so developed that today it produces significant portion of national animal protein. At the present time, different units of chicken farms have developed across the country; although some activities related to the development of this industry can meet the needs, due to some reasons, the investments made in this industry is not completely and soundly used.

Poultry raising industry in Iran includes six main activities such as: rearing great grandparents stock, grandparents stock; parents stock; production of one-day-old chickens, layer chicken, broiler chicken, and poultry (which is considered as a side activity). Obtaining information on the activity of the layer chicken farms is very important because the final and main product of these farms is egg which, as an important protein and nutritional food, plays an important role in supplying certain animal protein required in the country. This survey provides the researchers and planners with the information and statistics on the number of layer chicken farms, activity status, hall status, capacity, legal status, quantity of egg production and the number of workers.

General specifications of the Survey

Survey History:

With respect to the importance of statistics and information in planning, the SCI conducted this survey in the years 1364, 1370, 1373, 1375, 1378, 1380, 1382, 1385, 1388, 1390, 1391 and 1394 and disseminated their results.

Main Objectives:

The general objectives of this survey is:

To provide a timely statistical frame for poultry farms in order to conduct detailed surveys of this activity.

Survey Method:

Census method

Statistical Population:

The statistical population in this survey is all the national layer chicken farms in the year 1397.

Statistical Unit:

The statistical unit in this survey is a chicken farm involving in rearing layer chickens.

Statistical Frame:

The statistical frame for this survey includes all layer chicken farms in urban and rural areas resulted from the full-enumeration list of the chicken farms for raising layer chickens in the year 1394.

Survey Date:

The months of Tir and Mordad, the year 1397.

Statistical Date:

The statistical date, depending on the case, is the day of enumeration namely the year 1396 or the year 1397.

Level of Results Dissemination

The results of this survey were disseminated at provincial level¹.

Definitions and concepts

Layer Chicken Farms

This chicken farm is an agricultural product unit in which flocks of breeding layer chickens for producing edible egg are raised.

¹ The statistics for "other provinces" includes statistics for Ilam, Bushehr, Gilan, and Hormozgan which due to the low number of chicken farms in these provinces, have been aggregated due to confidential protection.

Layer Chicken

Includes those chickens on which breeding operations are done just for producing edible eggs with high production.

The Capacity of Layer Chicken Farms (Cage System)

In the layer chicken farms, the flocks of layer chicken are kept in the cages. The cages are classified according to the shape, type, size, number of floors, etc. The capacity of the layer chicken farms is the number of chickens kept in the cages.

Shell-Less Eggs

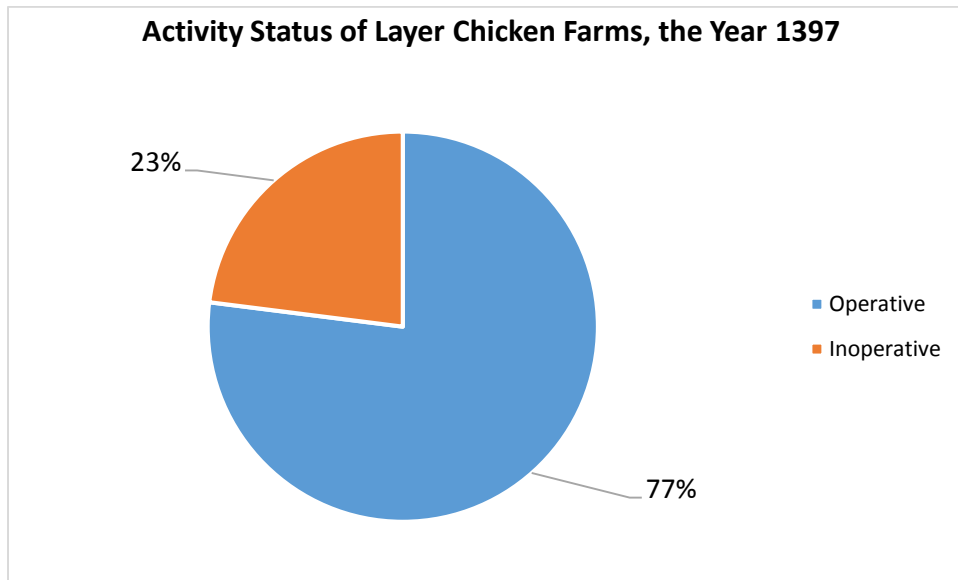
Produced eggs lacking the hard outer shell.

Important findings

The Number of Layer Chicken Farms

The results of this survey show there were 1746 chicken farms raising layer chicken in the country out of which a number of 1352 chicken farms were operative and 394 units were inoperative. The provinces of

Khorasan-e-Razavi, East Azarbayejan, and Esfahan had the highest number of chicken farms in comparison with other provinces.



Number and Capacity of the Poultry Halls

According to existing data and information, in the year 1397, there were a total of 5102 halls with 98 million layer chickens in the national layer chicken farms.

Edible Egg Production in the year 1396 and the spring, the year 1397

The results indicate that the edible egg production in the layer chicken farms were 674 and 142 thousand tons for the year 1397 and spring 1397, respectively.

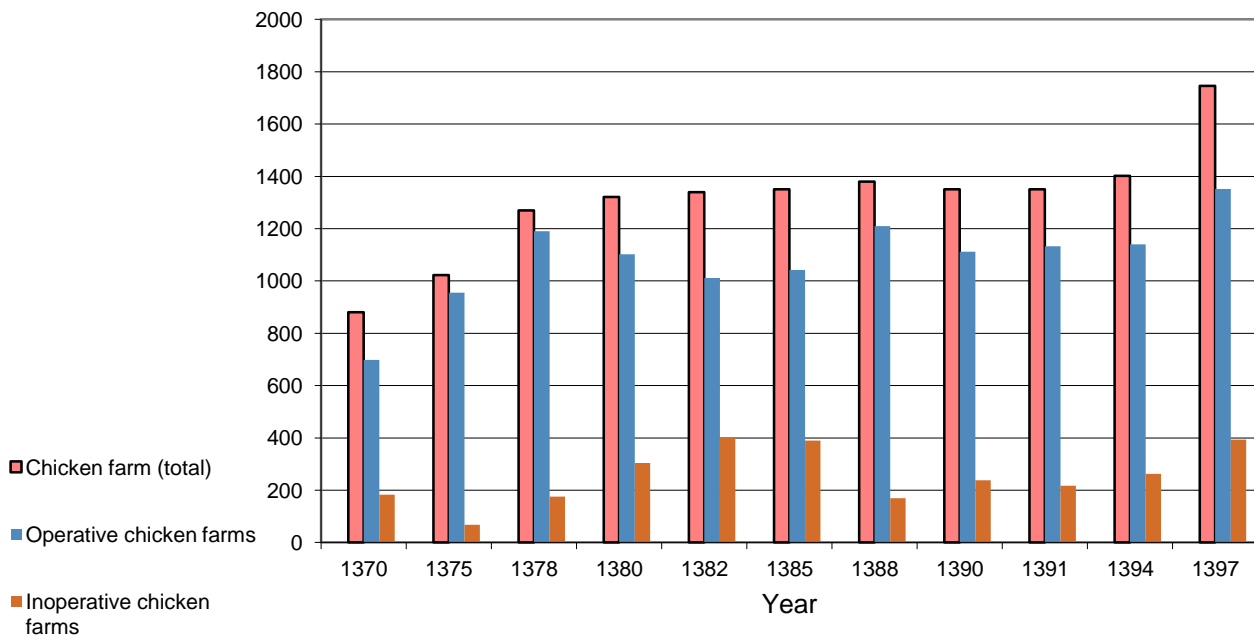
Number of workers

The number of workers in the layer chicken farms in the year 1396 was 11416 persons out of whom 9521 people were paid workers and 1895 ones were unpaid workers. Moreover, the paid workers included 9018 males and 503 females and unpaid workers consisted of 1867 males and 28 females.

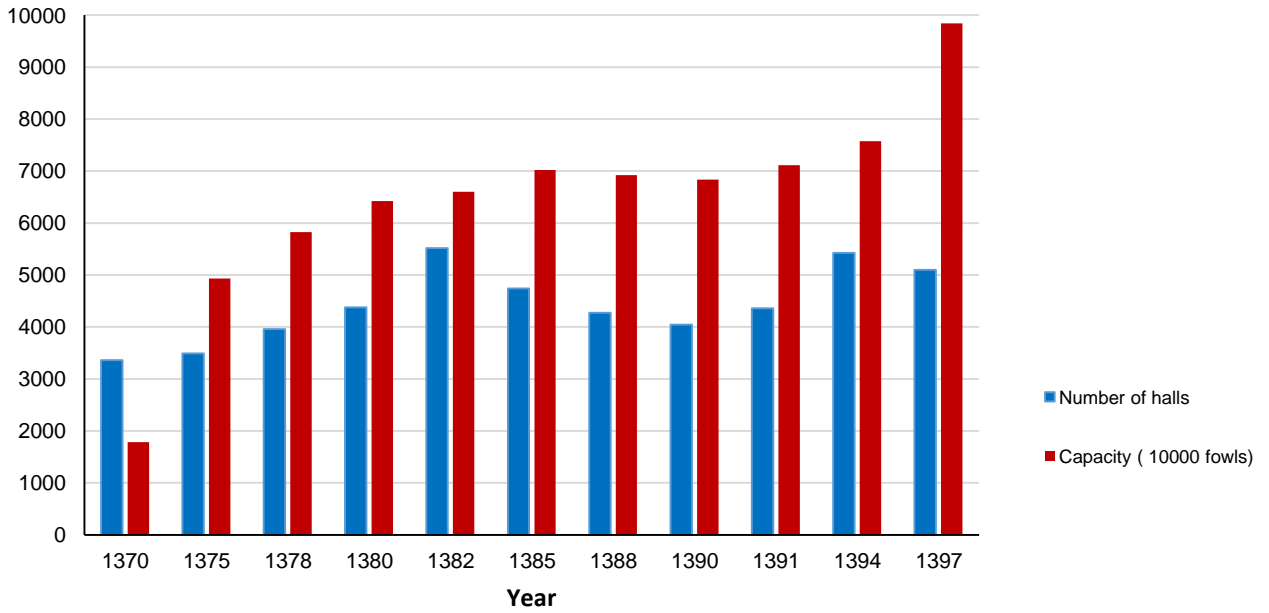
Important Explanatory Notes

The review of the time series information of layer chicken farms shows a 13% decrease in egg production in the year 1396 compared to the last survey in the year 1394. The study on the decrease conducted by the respective experts shows that the reason for this drop is due to the bird outbreak in the year 1396 in the leading provinces which possess the greatest shares in egg production. The provinces of Tehran, East Azarbayejan, Esfahan, Qom, and Qazvin experienced 41 percent decrease (about 196 thousand tons) in the production of edible egg due to the bird flu outbreak.

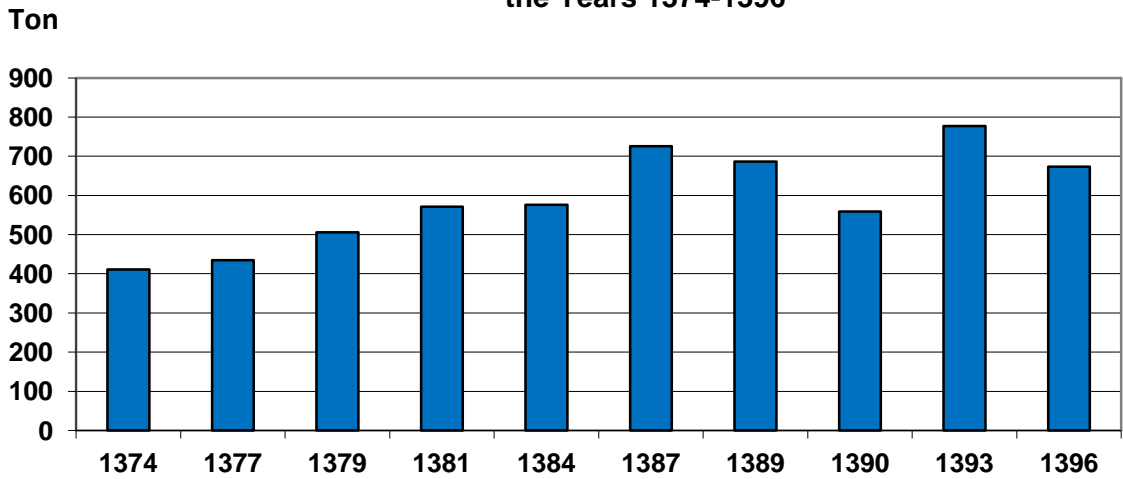
1.Changes in the Number and Activity Status of Layer Chicken Farms, the Years 1370-1397



2.Changes in the Number of Layer Chicken Farms' Halls, the Years 1370-1397



3.Changes in the Edible Egg Production in the Layer Chicken Farms, the Years 1374-1396



Statistical Tables

1. Number and Activity Status of Chicken Farms, the years 1370-1397

Description	Year										
	1370	1375	1378	1380	1382	1385	1388	1390	1392	1394	1397
Chicken farms (total)	881	1023	1365	1406	1414	1432	1380	1350	1350	1402	1746
Operative chicken farms	698	955	1190	1102	1012	1042	1210	1112	1133	1140	1352
Inoperative chicken farms	183	68	175	304	402	390	170	238	217	262	394

2. Edible Egg Production in the Layer Chicken Farms, the Years 1374-1396 (ton)

Year	Production
1374	411131
1377	434615
1379	506192
1381	571017
1384	576478
1387	725367
1389	686531
1390	558659
1393	777119
1396	673689

3.Layer Chicken Farms by Activity Status and Province, the Years 1396-1397

Province	Total	1396		1397	
		Operative	Inoperative	Operative	Inoperative
<i>Total country</i>	1746	1344	402	1352	394
East Azarbayejan	263	210	53	206	57
West Azarbayejan	16	12	4	13	3
Ardebil	17	11	6	14	3
Esfahan	209	156	53	166	43
Alborz	114	74	40	74	40
Tehran	122	50	72	61	61
Chaharmahal & Bakhtiyari	6	6	0	6	0
South Khorasan	34	32	2	34	0
Khorasan-e-Razavi	285	248	37	252	33
North Khorasan	3	0	3	2	1
Khuzestan	17	12	5	14	3
Zanjan	20	13	7	17	3
Semnan	39	34	5	35	4
Sistan & Baluchestan	5	3	2	3	2
Fars	65	56	9	61	4
Qazvin	64	56	8	59	5
Qom	173	156	17	104	69
Kordestan	9	7	2	7	2
Kerman	30	23	7	25	5
Kermanshah	18	11	7	13	5
Kohgiluyeh & Boyerahmad	4	4	0	4	0
Golestan	20	17	3	20	0
Lorestan	16	13	3	14	2
Mazandaran	23	12	11	14	9
Markazi	92	57	35	63	29
Hamedan	32	27	5	30	2
Yazd	47	41	6	38	9
Other provinces	3	3	0	3	0

4. Capacity of the Layer Chicken Farms by Activity Status and Province, the Years 1396-1397

Province	Total	1396		1398	
		Operative	Inoperative	Operative	Inoperative
Total country	98424723	79927273	18497450	80392853	18031870
East Azarbayejan	10689400	9272400	1417000	8991000	1698400
West Azarbayejan	459252	389252	70000	397252	62000
Ardebil	384600	248600	136000	342600	42000
Esfahan	11215850	9002850	2213000	9272100	1943750
Alborz	7140080	5629180	1510900	5223700	1916380
Tehran	12757001	6172751	6584250	8120361	4636640
Chaharmahal & Bakhtiyari	232500	232500	0	232500	0
South Khorasan	1536700	1470700	66000	1536700	0
Khorasan-e-Razavi	11837740	11060740	777000	11091040	746700
North Khorasan	55000	0	55000	45000	10000
Khuzestan	762000	285000	477000	435000	327000
Zanjan	1118700	803000	315700	1018000	100700
Semnan	1861600	1748200	113400	1746600	115000
Sistan & Baluchestan	782000	302000	480000	302000	480000
Fars	4228100	3799100	429000	4142100	86000
Qazvin	8729200	8214200	515000	8304200	425000
Qom	9152700	8470200	682500	5770100	3382600
Kordestan	419000	369000	50000	369000	50000
Kerman	1495500	1306500	189000	1416500	79000
Kermanshah	918000	542000	376000	678000	240000
Kohgiluyeh & Boyerahmad	170000	170000	0	170000	0
Golestan	2326000	2161000	165000	2326000	0
Lorestan	657000	477000	180000	567000	90000
Mazandaran	977500	505500	472000	625500	352000
Markazi	3928650	2946750	981900	2972750	955900
Hamedan	1321350	1212850	108500	1263350	58000
Yazd	3141300	3008000	133300	2906500	234800
Other provinces	128000	128000	0	128000	0

5. Layer Chicken Farms by Number, Total Capacity of Halls, and Province, the Year 1397

Province	Number of farms	Number of halls	Capacity
Total country	1746	5102	98425
East Azarbayejan	263	656	10689
West Azarbayejan	16	45	459
Ardebil	17	21	385
Esfahan	209	529	11216
Alborz	114	456	7140
Tehran	122	593	12757
Chaharmahal & Bakhtiyari	6	7	233
South Khorasan	34	61	1537
Khorasan-e-Razavi	285	671	11838
North Khorasan	3	3	55
Khuzestan	17	60	762
Zanjan	20	49	1119
Semnan	39	99	1862
Sistan & Baluchestan	5	18	782
Fars	65	179	4228
Qazvin	64	319	8729
Qom	173	570	9153
Kordestan	9	15	419
Kerman	30	123	1496
Kermanshah	18	35	918
Kohgiluyeh & Boyerahmad	4	4	170
Golestan	20	84	2326
Lorestan	16	21	657
Mazandaran	23	43	978
Markazi	92	255	3929
Hamedan	32	73	1321
Yazd	47	107	3141
Other provinces	3	6	128

6. Edible Egg Production in the Layer Chicken Farms, the year 1396

(ton)

Province	Number of operative chicken farms	Production
Total country	1344	673689
East Azarbayejan	210	67762
West Azarbayejan	12	3016
Ardebil	11	2388
Esfahan	156	90154
Alborz	74	57787
Tehran	50	21230
Chaharmahal & Bakhtiyari	6	2023
South Khorasan	32	16232
Khorasan-e-Razavi	248	125792
North Khorasan	0	0
Khuzestan	12	2679
Zanjan	13	7736
Semnan	34	20757
Sistan & Baluchestan	3	1755
Fars	56	24595
Qazvin	56	53734
Qom	156	49492
Kordestan	7	3133
Kerman	23	16101
Kermanshah	11	7315
Kohgiluyeh & Boyerahmad	4	1656
Golestan	17	16728
Lorestan	13	5816
Mazandaran	12	3820
Markazi	57	26982
Hamedan	27	15822
Yazd	41	28161
Other provinces	3	1026

1. Including shell-less eggs and broken eggs.

7. Number of Workers by Sex and Province, the Year 1396

Province	Total	Paid workers		Unpaid workers	
		Male	Female	Male	Female
Total country	11416	9018	503	1867	28
East Azarbayejan	1114	766	55	292	1
West Azarbayejan	118	73	0	45	0
Ardebil	67	35	7	25	0
Esfahan	1535	1227	104	202	2
Alborz	607	460	5	139	3
Tehran	562	493	6	61	2
Chaharmahal & Bakhtiari	33	25	0	8	0
South Khorasan	216	154	28	32	2
Khorasan-e-Razavi	1657	1234	75	339	9
North Khorasan	0	0	0	0	0
Khuzestan	66	51	0	15	0
Zanjan	141	123	3	15	0
Semnan	264	217	25	22	0
Sistan & Baluchestan	35	30	1	4	0
Fars	799	618	60	121	0
Qazvin	1257	1136	39	82	0
Qom	937	724	9	201	3
Kordestan	71	53	8	10	0
Kerman	101	67	9	25	0
Kermanshah	94	77	1	16	0
Kohgiluyeh & Boyerahmad	27	19	3	5	0
Golestan	368	322	35	11	0
Lorestan	66	49	0	17	0
Mazandaran	116	82	12	22	0
Markazi	358	283	7	63	5
Hamedan	280	227	11	42	0
Yazd	509	460	0	48	1
Other provinces	18	13	0	5	0