



الهيئة العامة للإحصاء
General Authority for Statistics

Specialized Agricultural Projects Survey Bulletin

(Layer Chicken Farms and Hatcheries)

2019



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Introduction:

The Council of Ministers Resolution No. 211 dated 13/1/1437 AH granted the General Authority for Statistics (GASat) the authority to regularly conduct surveys on economic, social, residential, and agricultural issues in the Kingdom and publish their findings. Based on this prerogative, GASat created programs and surveys aimed at creating a large statistical database that covers several areas, including agricultural statistics.

The 2019 survey on specialized agricultural projects is part of the field survey series carried out by GASat. This is GASat's second agricultural survey, after the first one conducted in 2018. This survey indicates GASat's awareness of the importance of agricultural activities for food security.

This survey will provide basic data on specialized agricultural projects, such as the numbers and areas of farms and barns, production, distribution, and production requirements for layer chicken farms and hatcheries.

GASat would like to thank everyone who contributed to this project, namely government partners, as well as respondents from agricultural holdings whose collaboration has the greatest impact on the publication of this bulletin.





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To improve bulletin publications, GStat welcomes all comments and suggestions by email on agriculture@stats.gov.sa.

Allah is the Arbiter of Success.

General Authority for Statistics (GStat)





Data Sources for the Specialized Agricultural Projects Bulletin

The Specialized Agricultural Projects Bulletin is based on the field survey conducted by GAsat in 2019 and categorized under "agricultural statistics". Data were collected by visiting all specialized agricultural holdings, including layer chicken farms and hatcheries, in all administrative regions in the Kingdom of Saudi Arabia, and filling an electronic multiple-question form. The questionnaire collected data and indicators on production and its requirements in specialized agricultural projects in the Kingdom of Saudi Arabia.

Objectives:

- 1) Support decision-makers, policymakers, researchers, and anyone interested in comprehensive and updated statistics on the Specialized Agricultural Projects Survey in the Kingdom of Saudi Arabia.
- 2) Obtain data on production and its requirements in layer chicken farms and hatcheries.
- 3) Provide updated statistics on:
 - Specialized layer chicken farms, such as the number of birds during the year; capacity; number, area, and capacity of barns; and production of table and hatching eggs.
 - Hatchery types (broiler, layer, and mother hen), types of used eggs (broiler, layer, and mother hen), number of used eggs by source, and number and type of produced chicks.
 - Main production requirements used in layer chicken farms and hatcheries.





Used Concepts and Terms:

1- Holding:

It is an economic unit of agricultural production, of both crops and livestock, under single management. A holding comprises all livestock in it, as well as all the land used totally or partially for agricultural production purposes, regardless of ownership, legal form, or area. A holding may be managed by one person or household or run jointly by two or more individuals or households. The management of a holding may also be undertaken by a legal person such as a corporation, a cooperative, a government entity, or others. The land of a holding may consist of one or more parcels under one name, provided that all the parcels share the same means of production, such as workforce or agricultural machinery and equipment, in an obvious and visible way for them to be considered one economic unit.

2- Type of Holding: Specialized (Regulated):

These are approved holdings that obtained licenses from the relevant authorities after submitting technical and economic studies. These holdings may specialize in crop or livestock production, poultry farming, or fish farming. They may also primarily use modern and non-traditional irrigation techniques, or agricultural mechanization and modern technology for agricultural production. These holdings can also specialize in open or protected cultivation; dairy farming; fattening calves, sheep, or poultry; or fish farming.

3- Layer Chicken Farms:

Layer chicken farms include the following farms (projects):

- 1- Layer chicken farms.
- 2- Farms of mother and grandmother hens for layer chicken.
- 3- Farms of mother and grandmother hens for broiler chicken.

4- Layer Chicken Farms:

Farms (projects) that specialize in producing eggs, and breeding types of chicken with high abilities to turn feed into eggs.

5- Farms of Mother Hens for Broiler Chicken:





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Farms (projects) that specialize in producing fertilized hatching eggs used to produce broiler chicken.

6- Farms of Grandmother Hens for Layer Chicken:

Farms (projects) that specialize in producing fertilized hatching eggs used to produce mother hens for layer chicken.

7- Farms of Grandmother Hens for Broiler Chicken:

Farms (projects) that specialize in producing fertilized hatching eggs used to produce mother hens for broiler chicken.

8- Farms of Mother Hens for Layer Chicken:

Farms that specialize in producing fertilized hatching eggs used to produce layer chicken.

9- Hatcheries:

Projects that specialize in producing different types of broiler and layer chicks or mother hens, whether the used hatching eggs were produced in the same projects, purchased from other local projects, or imported from abroad.

10- Table Eggs:

Eggs produced by layer chicken farms for human consumption.

11- Fertilized Hatching Eggs:

Fertilized eggs produced from mother hen and grandmother hen farms and used in hatcheries to produce chicks for farms of broiler chicken, layer chicken, and mother hens for layer and broiler chicken.

12- Agricultural Production:

All plant products from an agricultural holding, including crops, vegetables, or evergreen trees, as well as animal products from livestock, poultry, and fish.

13- Sold Production:

Production supplied by a specialized project to the market in exchange of a price. It is part of the total crops and livestock production after deducting self-consumed, lost, or damaged





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produce. Endowments and produce gifted to people other than the family of the holding's owner fall within this category.

14- Farm Capacity:

The maximum number of birds or animals that a farm can contain and raise on any day of the survey's year.

15- Barns:

Places dedicated to raising animals or poultry, and which can be in the form of specialized buildings.

16- Annual Poultry Cycles:

Number of production cycles in the farm during the survey's year. A cycle starts when the farm begins raising one-day old chicks and ends with supplying the produced poultry to sale outlets.

17- Agricultural Production Requirements (Intermediate Consumption):

Commodities that the specialized project actually used during the survey's year as a result of its agricultural production, whether these goods were bought the same year or taken from stored supplies bought in previous years.





Indicators:

The bulletin includes several results and indicators from the Specialized Agricultural Projects Survey on layer chicken farms and hatcheries, mainly:

Key Indicators
1. Number of specialized layer chicken farms, and number, area, and capacity of barns by administrative region in the Kingdom in 2018.
2. Number chicken in specialized layer chicken farms by administrative region in the Kingdom in 2018.
3. Total number of table eggs produced and sold in specialized layer chicken farms by administrative region in the Kingdom 2018.
4. Total number of fertilized hatching eggs produced and sold in specialized layer chicken farms by administrative region in the Kingdom in 2018.
5. Quantity of production requirements used in layer chicken farms by administrative region in the Kingdom in 2018.
6. Number of specialized hatcheries by type per administrative region in the Kingdom in 2018.
7. Number of hatching eggs (broiler, layer, or mother hens) by source in specialized hatcheries per administrative region in the Kingdom in 2018.
8. Number of produced and sold chicks by type in specialized hatcheries per administrative region in the Kingdom in 2018.





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9. Quantity of production requirements used in specialized hatcheries by administrative region in the Kingdom in 2018.

Coverage:

1- Spatial Coverage:

The Specialized Agricultural Projects Survey covers all types of specialized projects in all 13 administrative regions in the Kingdom of Saudi Arabia, which are: Riyadh, Makkah Al Mukarramah, Al Madinah Al Munawwarah, Al Qaseem, Eastern Region, Aseer, Tabuk, Hail, Northern Borders, Jazan, Najran, Al Bahah, and Al Jawf. Data were collected by visiting all specialized holdings, including layer chicken farms and hatcheries, in each administrative region.

2- Temporal Coverage:

The Specialized Agricultural Projects Survey covers production and its requirements for all specialized projects in 2018 (from 1/1/2018 to 31/12/2018, corresponding to 14/4/1439 to 24/4/1440).



Used Statistical Classifications:

The definitions and concepts used in the bulletin are based on the World Programme for the Census of Agriculture 2020 (WCA 2020), of the Food and Agriculture Organization (FAO).



Data Collection Tools:

Field Data Collection Questionnaires: The questionnaire was prepared by agricultural statistics experts at GStat, taking into account international recommendations, standards, and definitions. It was then presented to agricultural statistics experts and specialists and other relevant entities to obtain their feedback. Finally, questions were reformulated based on a specific scientific method to standardize the way researchers ask them.



Specialized Agricultural Projects Survey Questionnaire for Layer Chicken Farms			
The questionnaire was divided into 10 thematic sections to meet the technical standards of the field work stage.			
Geographic and distinctive data	Identification details	Agricultural labor in 2018	Number of birds in 2018
Production and distribution of table and hatching eggs in 2018.	Organic fertilizer production by layer chicken and its distribution in 2018.	Production requirements for the farm's main activity in 2018.	Other agricultural activities
Holding land usage Data		Holding status	



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Specialized Agricultural Projects Survey Questionnaire for Hatcheries			
The questionnaire was divided into nine thematic sections to meet the technical standards of the field work stage.			
Geographic and distinctive data	Identification details	Agricultural labor in 2018	Eggs used in 2018
Chicks produced in the hatchery and their management in 2018.	Production requirements for the farm's main activity in 2018.		Other agricultural activities
Holding land usage Data			Holding status
The complete questionnaire can be viewed and downloaded through GStat's official website.			

After the survey questionnaire was approved, it was transformed into an electronic copy that could be used through the tablet-based data collection system, which has the following features:

- 1- Reviewing the field researcher's work zone (survey sample).
- 2- Reaching the sample (agricultural holding) by using the map in the tablet.
- 3- Collecting high quality data using data auditing and navigation rules, to automatically detect input errors and illogical entries during data collection.
- 4- Allowing communication between supervising entities by exchanging notes with field researchers.



Data Collection Method:

A comprehensive census method was used, by visiting all specialized agricultural project holdings from the 2014/2015 agricultural census, as well as new projects created after the census. The list of these new projects by administrative region was obtained from the agricultural directorates in the Ministry of Environment, Water and Agriculture (MEWA). A total of 764 projects were visited across the Kingdom of Saudi Arabia as follows:



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Administrative Region	Number of Holdings	Administrative Region	Number of Holdings	Administrative Region	Number of Holdings
Riyadh	240	Asir	100	Najran	15
Makkah	139	Tabuk	25	Al-Baha	4
Madinah	25	Hail	12	Al-Jouf	9
Qassim	63	Northern Borders	4		
Eastern Region	108	Jazan	20		

- 1- The field researchers tasked with visiting the specialized agricultural projects and collecting data for this survey were selected based on a number of practical and subjective criteria related to the nature of work.
- 2- All candidates (GASStat staff and collaborators from other government entities) were trained through special training programs.
- 3- Completing the survey questionnaire and collecting data were done through direct contact with the specialized agricultural projects. Field researchers used the coordinates and guiding maps on their tablets to visit all specialized agricultural projects in their work areas. Once on the site, the researchers introduced themselves, showed official documents proving their identity and affiliation with the data collection project, explained the purpose of the visit, and provided an overview of the survey and its objectives. Next, researchers filled in the electronic questionnaires by collecting verbal answers from project managers. In the absence of project managers, data were collected from any knowledgeable project employees.
- 4- All field researchers used tablets to complete survey questionnaires based on the time reference specified according to the specialized agricultural projects and their characteristics.
- 5- Field researchers in all work locations in the Kingdom used the synchronization feature available on the tablets, in order to directly transfer the collected data on specialized agricultural projects to the relevant database at GASStat's headquarters, where they are stored for later review and processing.





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- 6- Electronic auditing rules are applied to ensure the consistency, accuracy, and logic of the data collected with the Specialized Agricultural Projects Survey questionnaire. These electronic rules detect answer discrepancies, as they are built by creating logical relationships between questionnaire answers and variables, to help field researchers detect any error directly while completing questionnaires with the specialized projects managers. These rules do not allow answers if they contradict another information or answer in the questionnaire.
- 7- The accuracy of the collected data was verified by the field researchers, their inspectors, and the survey supervisors in the supervision areas. All work areas were subjected to a monitoring and reviewing process by the Data Quality Room at GASTat's headquarters, which also controls and monitors the performance of all working groups in the field during the data collection process, from the first to the last day.

Result Preparation and Review:

After reviewing the collected data for the Specialized Agricultural Projects Survey, the next steps consisted of analyzing the data, extracting results, and downloading outputs and storing them in the database. A final review was conducted by experts in agricultural statistics using modern technologies and software designed for review purposes.



Data Publication:

First: Preparation of Results for Publication:



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In this stage, GStat downloaded the results from the database of the Specialized Agricultural Projects Survey. Next, it prepared tables and charts of data and indicators, and added the metadata and methodology as they appear in this bulletin, in both English and Arabic.

Second: Preparation of Media Materials and Announcement of the Bulletin's Publication Date:

GStat already announced the bulletin's publication date on its official website at the beginning of the year. In this stage, GStat prepares media materials to announce the bulletin's publication on various platforms, including social media. GStat then publishes the bulletin on the defined date on its website using different formats, such as open data in Excel files, to ensure easy dissemination and access for all clients and anyone interested in agricultural statistics. The bulletin is also uploaded to the website's statistics library.

Third: Communication with Clients and Bulletin Dissemination:

GStat believes in the importance of communicating with the clients who use its data. Therefore, once the Specialized Agricultural Projects Survey Bulletin is released, GStat communicates with the clients and provide them with the bulletin. GStat receives the questions and enquiries of the clients about the bulletin and its results through the following channels:

- GStat's official website: www.stats.gov.sa.
- GStat's official email: info@stats.gov.sa
- Client support email: cs@stats.gov.sa
- GStat's headquarters in Riyadh or one of its branches in the country.
- Official letters.
- Statistical phone: (920020081)



Implemented Quality Procedures:



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Several technical procedures are in place to guarantee the quality of the collected data. These procedures include the following:

- 1- Using assessments of previous surveys conducted by GStat to identify weaknesses and strengths in survey implementation and improve data collection procedures.
- 2- Training and testing researchers to ensure their ability to obtain data correctly in line with the survey's objectives.
- 3- Testing the electronic tools used to collect data to ensure data integrity and protection at all stages of the survey implementation.
- 4- Reducing respondent burden by using appropriate statistical methods.
- 5- Committing to the publication of the results as per the previously set issue dates.

Additionally, the Data Quality Room at GStat implements a number of other measures during the field data collection.



Data Quality Room:

The Data Quality Room is an operations room that works simultaneously with the survey field work. It is equipped with electronic monitoring tools and tracking screens used by supervisors and quality experts to review data consistency and detect errors and outliers during the field data collection, by immediately monitoring the collected data by field researchers. The Data Quality Room verifies that researchers follow survey instructions; ensures that the data are logical, correct, and reliable; and reviews some important survey indicators to ensure data accuracy. The main tasks of the Data Quality Room include the following:

- Review the collected data and send notes to all levels of field work teams, through the automated desk system connected to the tablets carried by the researchers, so that they receive the notes quickly at their work sites.
- Call project managers and ask them some questions from the questionnaire, in order to verify the accuracy of the data collected by the researchers and their compliance with instructions during the visit; obtain missing data that were not received yet; and thank project managers for their cooperation.



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- Answer field inquiries received from both field researchers and specialized agricultural project managers.
- Verify the accuracy of data collection locations by matching them with the coordinates recorded in the sample file.



Bulletin Beneficiaries and Benefits:

All government entities whose work is linked to agricultural activities in the Kingdom of Saudi Arabia benefit from the Specialized Agricultural Projects Bulletin. Some of the main beneficiaries from the bulletin's results include the Ministry of Environment, Water, and Agriculture (MEWA), the Agricultural Development Fund (ADF), the Saudi Grains Organization (SAGO), international and regional organizations, and researchers and planners interested in agricultural statistics. Data and indicators related to specialized agricultural projects are key statistical outputs that support decision-making in this field.

More details on the methodology of the Specialized Agricultural Projects Survey can be found on GStat's official website.



Report on Key Indicators:

First: Specialized Layer Chicken Farms:

1- Number of layer chicken farms in the Kingdom of Saudi Arabia:

Specialized layer chicken farms include the following:

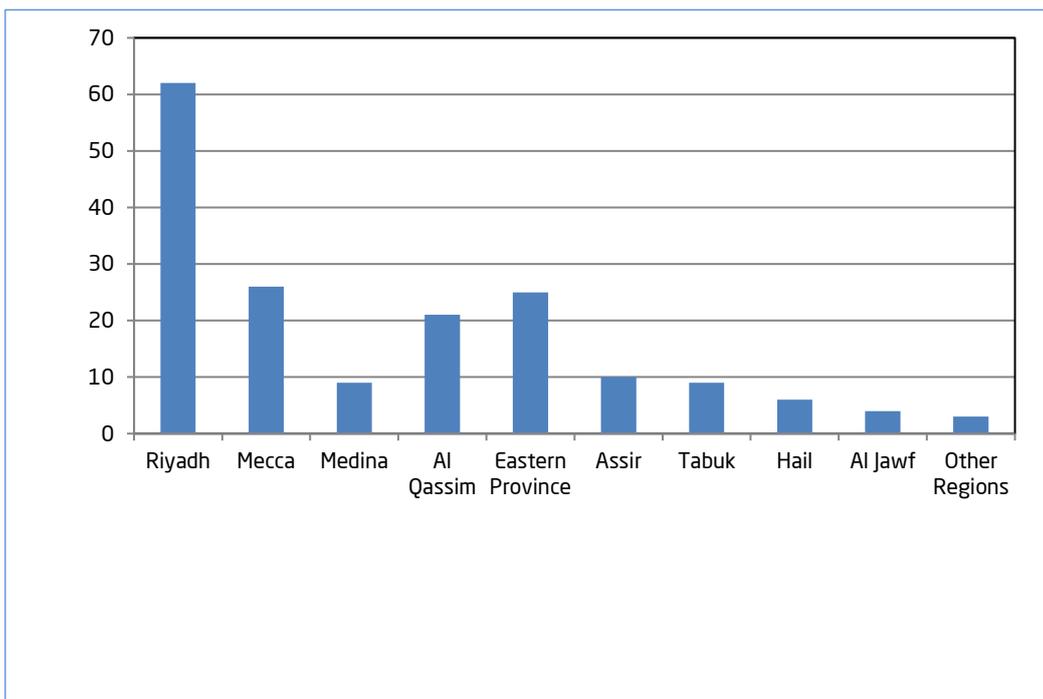
- 1) Layer chicken farms.
- 2) Farms of mother hens for layer chicken and farms of grandmother hens for layer chicken.
- 3) Farms of mother hens for broiler chicken and farms of grandmother hens for broiler chicken.

The country had 175 layer chicken farms in 2018.

Riyadh ranked at the top of administrative regions in the country with 62 layer chicken farms (35%), followed by Makkah al-Mukarramah with 26 layer farms (15%).



Figure 1: Layer chicken farms by administrative region in 2018.





2- Number, area, and capacity of barns during the year in layer chicken farms in the Kingdom of Saudi Arabia:

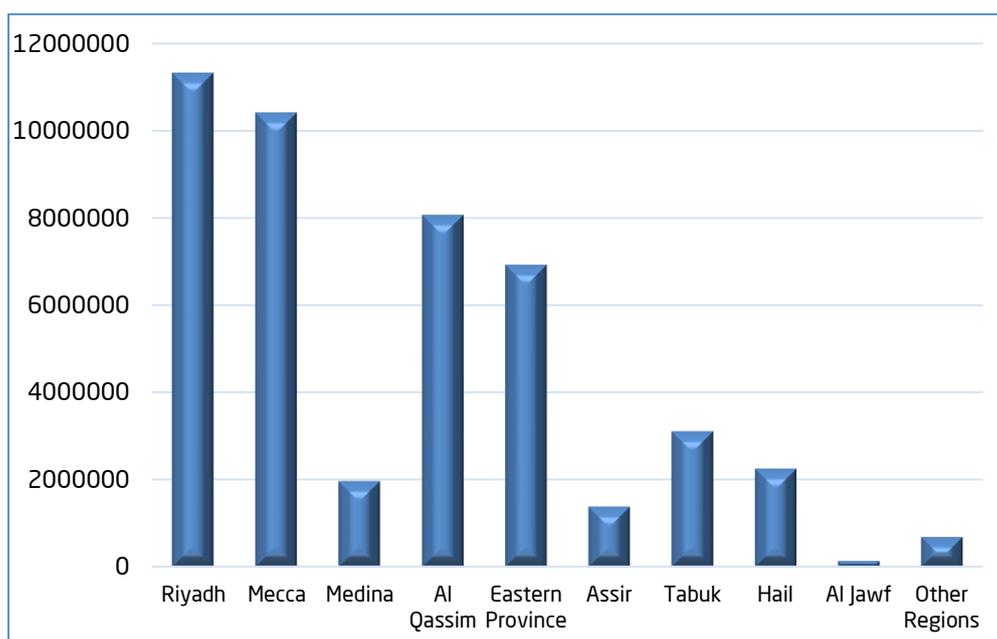
The Kingdom of Saudi Arabia had 2,516 barns in layer chicken farms, spanning across a total area of 6,520,765 square meters, with a capacity of 46,237,268 birds.

Riyadh had the largest number of barns in layer chicken farms (660 barns, 26%), followed by Makkah al-Mukarramah (483 barns, 19%).

In terms of barn areas, Makkah al-Mukarramah had the largest area with 1,896,284 square meters, followed by Riyadh with 1,436,217 square meters.

As for barn capacity, Riyadh had the largest capacity with over 11 million birds (24%), followed by Makkah al-Mukarramah with a capacity exceeding 10 million birds (22%).

Figure 2: Layer chicken farm capacity (birds) by administrative region in 2018.



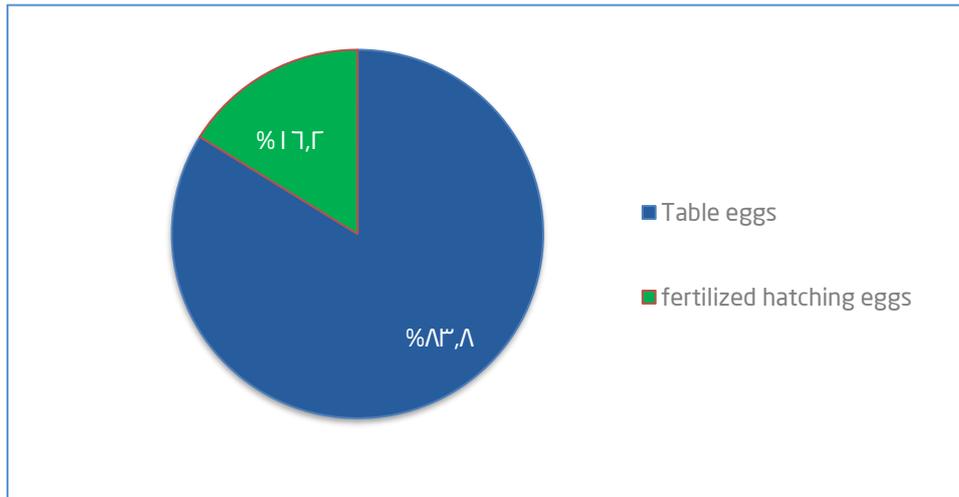
3- Production of table eggs and fertilized hatching eggs by layer farms:



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In 2018, layer chicken farms produced a total of 6,333,405,900 eggs, with 5,310,058,853 table eggs (84%), and 1,023,347,048 fertilized hatching eggs.

Figure 3: Types of produced eggs in the Kingdom of Saudi Arabia in 2018.

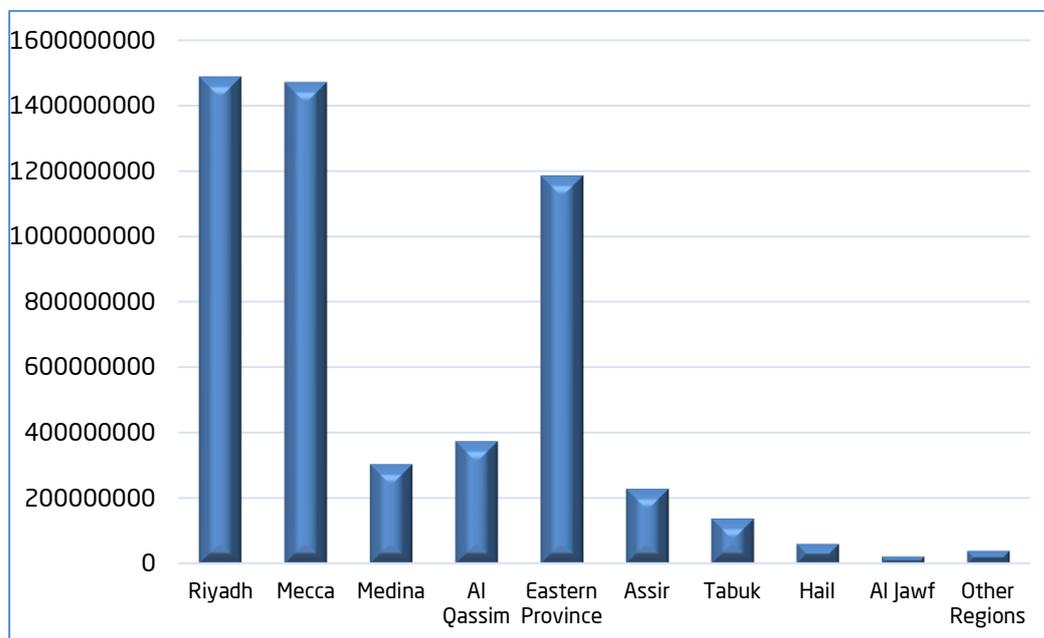


4- Production and sales of table eggs by layer chicken farms:

In 2018, layer chicken farms produced 5,310,058,853 table eggs in the country, 98% of which were sold. Riyadh was the top producer of table eggs, with 28% of all table eggs produced in layer chicken farms in the country.

Figure 4: Produced table eggs (eggs) in layer chicken farms by administrative region in 2018.



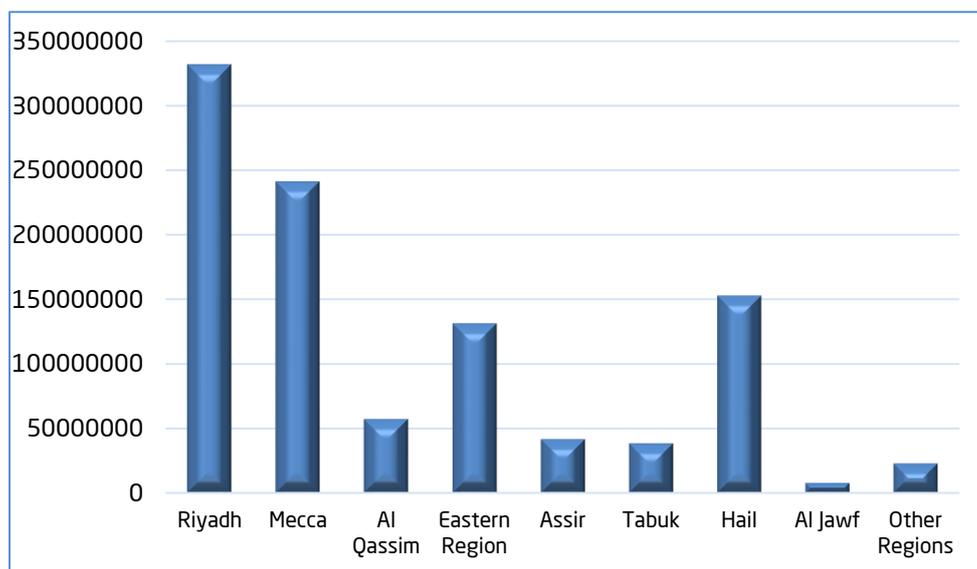


5- Production and sales of fertilized hatching eggs by layer chicken farms:

In 2018, layer chicken farms produced 1,023,347,048 fertilized hatching eggs the country, 98% of which were sold. Riyadh was the top producer of fertilized hatching eggs (32%).



Figure 5: Produced fertilized hatching eggs (eggs) in layer chicken farms by administrative region in 2018.



6- Quantity of processed feeds, carboard, and sawdust used in production in layer chicken farms in the Kingdom of Saudi Arabia:

In 2018, layer chicken farms used 1,777,430 tons of processed feeds, 14,906,070 cartons, and 8,644,235 kilograms of sawdust.

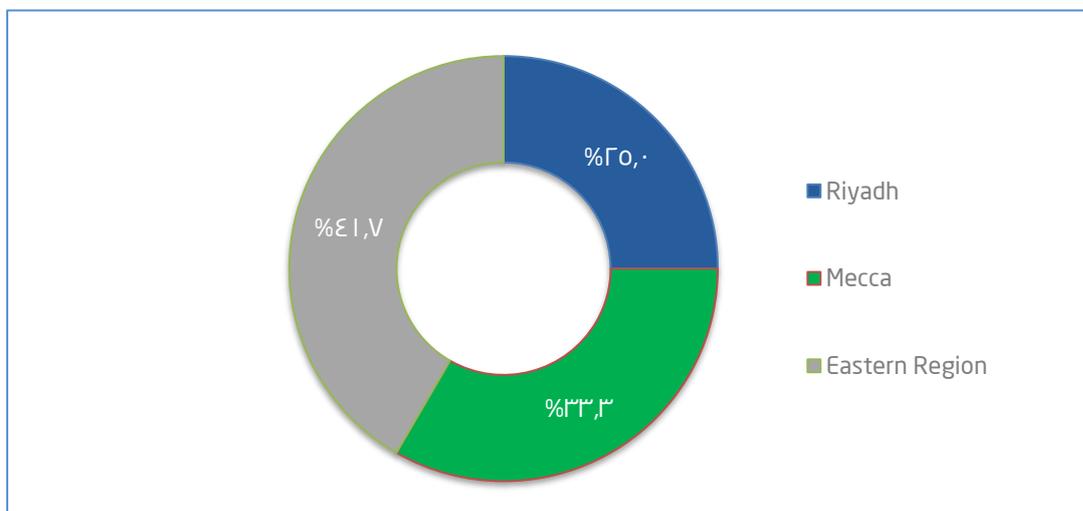
Second: Specialized Hatcheries:

1- Number of specialized hatcheries in the Kingdom of Saudi Arabia:

In 2018, the Kingdom of Saudi Arabia had 12 specialized hatcheries, distributed between Riyadh, Makkah al-Mukarramah, and the Eastern Region.

The Eastern Region had the most hatcheries (5).

Figure 6: Specialized hatcheries by administrative region in the Kingdom in 2018.



2- Number of specialized hatcheries by type in the Kingdom of Saudi Arabia:

There are two main types of hatcheries: broiler chicken hatcheries and layer chicken hatcheries.

The Kingdom of Saudi Arabia had 9 broiler chicken hatcheries, representing 75% of all specialized hatcheries in the country.



3- Number of broiler hatching eggs by source in the specialized hatcheries:

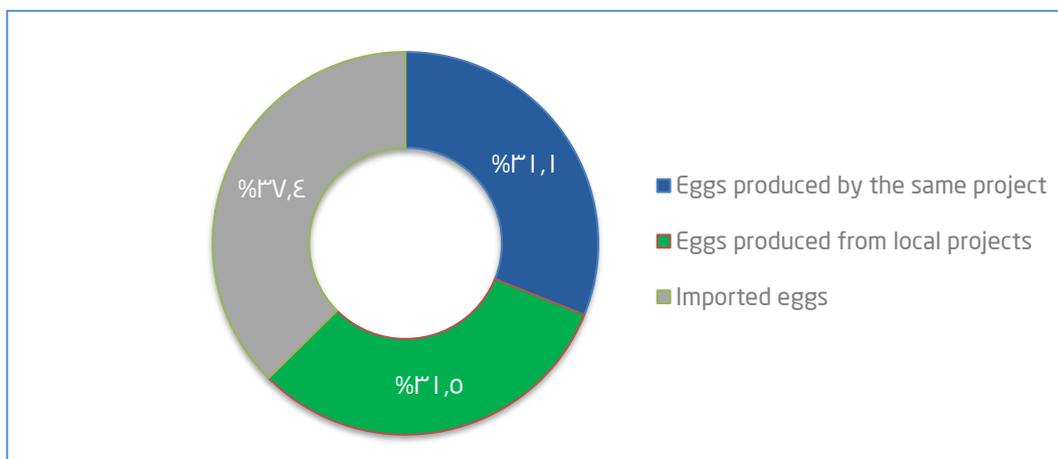
Hatcheries obtain broiler hatching eggs from the following three main sources:

- 1) Eggs produced by the same project.
- 2) Eggs purchased from local projects.
- 3) Imported eggs.

In 2018, specialized hatcheries in the Kingdom used 224,329,188 broiler hatching eggs, 37% of which, i.e. 84 million eggs, were imported.

In 2018, specialized hatcheries produced more than 69 million broiler hatching eggs, representing 31% of the total broiler hatching eggs used in specialized hatcheries in the country.

Figure 7: Used broiler hatching eggs by source in specialized hatcheries in the Kingdom in 2018.



4- Number of used layer hatching eggs by source in specialized hatcheries:

Hatcheries in the Kingdom of Saudi Arabia obtained their layer hatching eggs from two main sources:

- 1) Eggs produced by the same project.
- 2) Eggs purchased from local projects.

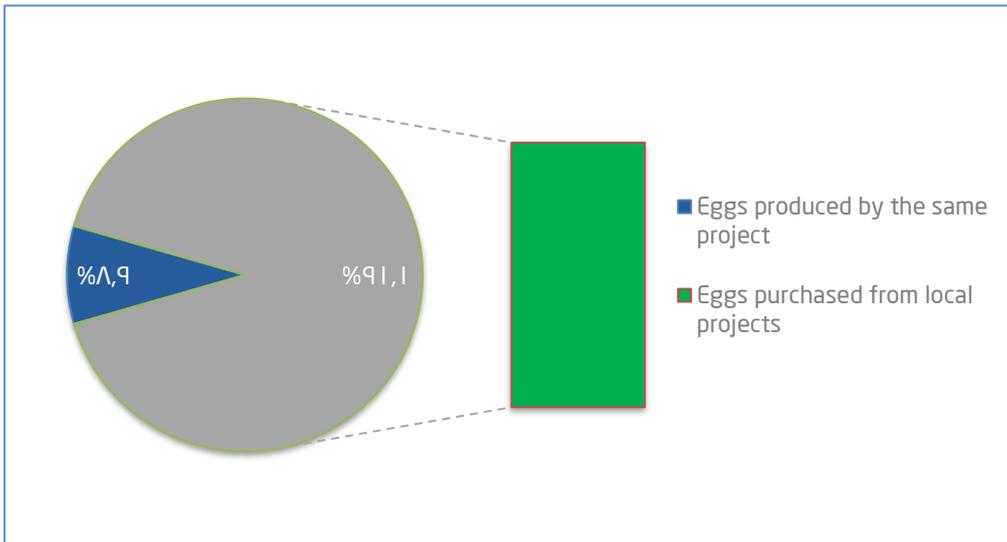
In 2018, specialized hatcheries in the Kingdom used 41,685,000 layer hatching eggs, 91% of which, i.e. 37 million eggs, were purchased from local projects.



Figure 8: Used layer hatching eggs by source in specialized hatcheries in the Kingdom in 2018.



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| Publication Tables:



Number, area, and capacity of layer chicken farms and barns throughout the year per administrative region in KSA in 2018

Table (1)

Capacity (birds)	Total area of barns (square meter)	Number of barns	Number of farms	Administrative regions
11,308,400	1,436,217.35	660	62	Riyadh
10,397,161	1,896,284.39	483	26	Makkah
1,970,667	353,379.06	50	9	Madinah
8,065,657	1,315,315.02	478	21	Qassim
6,919,944	500,112.28	292	25	Eastern Region
1,382,000	132,596.00	123	10	Asir
3,111,875	397,495.37	202	9	Tabuk
2,255,646	337,000.00	104	6	Hail
138,119	14,400.04	23	4	Al-Jouf
687,800	137,965.65	101	3	Other administrative regions
46237268	6520765.14	2516	175	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Total production and sales of table eggs by layer chicken per administrative region in KSA in 2018

Table (2)

Number of sold eggs	Number of produced eggs	Administrative regions
1,463,812,441	1,486,605,804	Riyadh
1,448,037,034	1,470,533,767	Makkah
294,766,006	304,395,750	Madinah
363,651,102	374,597,516	Qassim
1,167,692,625	1,184,877,537	Eastern Region
228,453,931	228,725,950	Asir
135,777,821	137,911,829	Tabuk
61,047,450	61,420,500	Hail
20,291,774	21,888,200	Al-Jouf
36,932,390	39,102,000	Other administrative regions
5,220,462,574	5,310,058,853	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Total production and sales of hatching eggs by layer chicken per administrative region in KSA in 2018

Table (3)

Number of sold eggs	Number of produced eggs	Administrative regions
326,163,284	331,406,381	Riyadh
236,376,692	240,895,949	Makkah
51,456,523	57,188,623	Qassim
130,934,938	131,037,132	Eastern Region
40,964,663	41,449,705	Asir
37,957,219	38,327,075	Tabuk
151,203,548	152,671,049	Hail
7,512,366	7,585,567	Al-Jouf
22,490,066	22,785,567	Other administrative regions
1,005,059,299	1,023,347,048	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Quantity of processed feeds, carboard, and sawdust used in production in layer chicken farms per administrative region in KSA in 2018

Table(4)

Sawdust	Carton	Manufactured feeds	Administrative regions
Quantity (Kg)	Quantity (Number)	Quantity (Ton)	
2,410,401.42	4,359,900	478,659.70	Riyadh
1,724,987.76	5,106,800	498,949.76	Makkah
180,481.84	967,399	76,076.59	Madinah
1,461,552.12	3,004,060	164,029.73	Qassim
1,083,094.08	626,921	321,066.00	Eastern Region
456,663.00	323,288	71,077.45	Asir
632,091.23	347,794	63,781.07	Tabuk
352,586.73	23,004	81,912.21	Hail
92,177.02	53,436	5,149.89	Al-Jouf
250,200.50	93,468	16,728.13	Other administrative regions
8,644,235.70	14,906,070	1,777,430.52	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Quantity of salts, vitamins, veterinary medication, and antiseptics used in production in layer chicken farms per administrative region in KSA in 2018

Table (5)

Anticeptics	Veterinary medicines	Vitamines and minerals	Administrative regions
Quantity (Liter)	Quantity (Liter)	Quantity (Kg)	
1,549,848.26	271,720.42	2,755,922.39	Riyadh
1,159,055.96	67,112.89	159,701.95	Makkah
121,651.15	25,843.15	224,052.97	Madinah
903,767.91	356,070.67	14,919.59	Qassim
700,899.88	66,185.62	11,899.97	Eastern Region
301,511.95	11,408.91	3,760.32	Asir
430,871.68	23,359.23	16,263.69	Tabuk
250,728.11	2,203.43	75.55	Hail
58,416.19	4,007.70	1,594.91	Al-Jouf
163,564.12	200.38	2,905.58	Other administrative regions
5,640,315.20	828,112.40	3,191,096.92	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Number of hatcheries by hatchery type per administrative region in KSA in 2018

Table (6)

Number of projects		Administrative region
Layer chicken	Broiler chicken	
0	3	Riyadh
1	3	Makkah
2	3	Eastern Region
3	9	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Table (7)

Imported	Purchased from the production of local projects	Production of the project	Administrative region
Number of eggs	Number of eggs	Number of eggs	
84,000,000	58,500,000	15,000,000	Riyadh
0	0	53,579,988	Makkah
0	12,079,200	1,170,000	Eastern Region
84,000,000	70,579,200	69,749,988	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Table(8)

Purchased from the production of local projects	Production of the project	Administrative regions
Number of eggs	Number of eggs	
36,075,000	0	Makkah
1,882,143	3,727,857	Eastern Region
37,957,143	3,727,857	Total



Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Table (9)

Number of sold chicks	Number of produced chicks	Administrative region
139,377,000	142,500,000	Riyadh
40,158,090	44,421,416	Makkah
1,988,400	12,568,200	Eastern Region
181,523,490	199,489,616	Total

Number of layer chicks produced and sold in hatcheries per administrative region in KSA in 2018

Table (10)

Number of sold chicks	Number of produced chicks	Administrative regions
18,037,500	36,075,000	Makkah
1,509,357	5,075,715	Eastern Region
19,546,857	41,150,715	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Number of egg cartons, sawdust, and cardboard used in production in hatcheries per administrative region in KSA in 2018

Table (11)

Sawdust	Carton	Egg carton holders	Administrative region
Quantity (Kg)	Quantity (Number)	Quantity (Number)	
11,900	437,499	5,250,000	Riyadh
4,305	249,036	2,988,499	Makkah
27,370	52,386	628,640	Eastern Region
43,575	738,921	8,867,139	Total

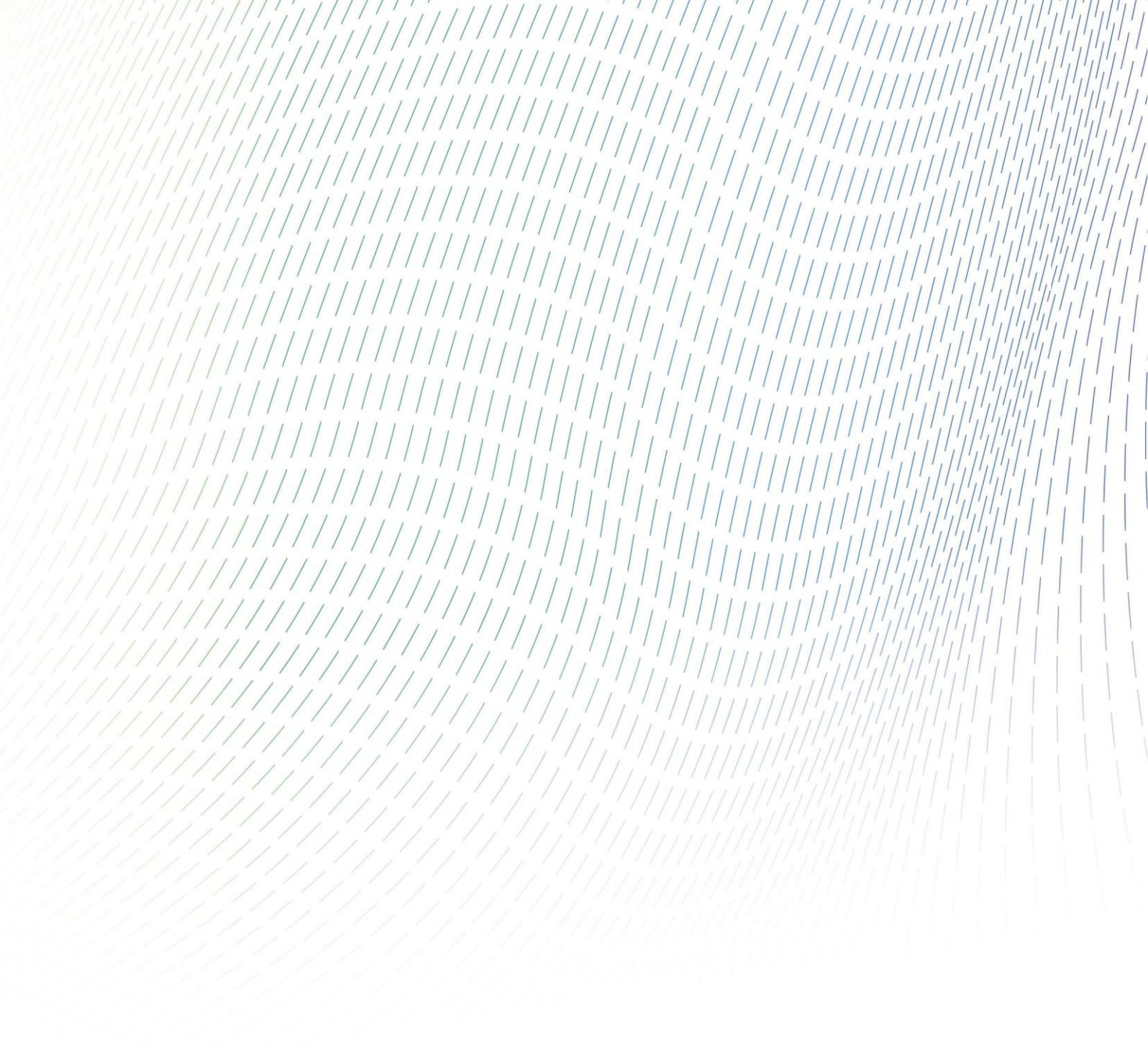
Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018

Quantity of vaccines, veterinary medication, and antiseptics used in hatcheries per administrative region in KSA in 2018

Table(12)

Antiseptics	Veterinary medicines	Vaccines	Administrative region
Quantity (Liter)	Quantity (Liter)	Quantity (Liter)	
19,380.00	1,215.00	3,800.00	Riyadh
24,220.00	45,102.00	7,910.00	Makkah
42,184.31	208,970.12	41,774.97	Eastern Region
85,784.31	255,287.12	53,484.97	Total

Number of used hatching broiler chicken eggs by their sources in hatcheries per administrative region in KSA in 2018



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