



مركز الإحصاء  
STATISTICS CENTRE

# Agricultural Statistics

## Methodology

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## Overview

Economic activities are the foundation of economic growth and development. The agricultural sector constitutes one of the primary production sectors contributing to the GDP. The sector is also the primary supplier of food and raw materials to the food industry throughout the Emirate of Abu Dhabi and the country at large.

## Importance

Agricultural statistics are the key source of statistical figures about the agricultural sector in the Emirate of Abu Dhabi, as they help to support the agricultural research and policy and decision-making in developing future agricultural plans.

## Objectives

Identifying agricultural indicators aims to provide data on the sector's structure in the Emirate, which will in turn contribute to the development of the Emirate of Abu Dhabi's statistics and the provision of the agricultural data required for identifying the country's agricultural indicators. The objectives are summarized as follows:

- Provide statistics on agricultural lands and their distribution as per use;
- Provide statistics on the harvested lands as per the harvest type and irrigation method;
- Provide statistics on the gross plant production and productivity statistics as per the harvest type;
- Provide statistics on the numbers pertaining to livestock and their relevant variables;
- Provide statistics on animal production commercial farms by type;
- Provide statistics on gross animal production by type of product;
- Provide statistics on agricultural prices;
- Provide statistics on the external trade of agricultural goods and food;
- Provide statistics on the food balance sheet;
- Provide statistics on the agricultural labour force;
- Provide statistics on agricultural loans, funding, and support;
- Provide statistics on the agricultural production capital formation and costs;
- Provide statistics on the natural resources pertaining to agriculture, such as water, soil, forests, and pastures; and
- Provide statistics on fisheries.

## Concepts and Definitions

Term	Definition
<b>Agriculture Census</b>	A large-scale statistical operation for collecting, processing, and disseminating quantitative information on the agricultural sector's composition.
<b>Agriculture Holding</b>	<p>An agricultural holding is an economic unit of agricultural production under single management comprising all livestock kept and all land used wholly or partly for agricultural production purposes.</p> <p>An agricultural holding is a single-management economic unit of agricultural production that includes all livestock kept and all land used entirely or partially for agricultural production.</p>
<b>Plant Holding</b>	<p>Plant holding should contain vegetable crops or field crops or fruit trees or all of them. The holding should meet all conditions of plant holding (in terms of the minimum size).</p> <p>Plant holdings should include vegetable crops, field crops, fruit trees, or a combination of the three. All plant holding conditions must be met by the holding (in terms of the minimum size).</p>
<b>Animal Holdings</b>	An animal holding contains animals (cattle, camels or goats or sheep). The holding should meet all the criteria of animal holding (in terms of number of animals). Commercial farms (poultry or cow breeding farms) are considered if they meet all conditions.
<b>Mixed Holding</b>	A mixed holding includes both plant production and animal husbandry land.
<b>Agricultural Holder</b>	Agriculture holder is a civil or legal person who makes the major decisions about resource use and exercises management control over the holding has technical and economic responsibility for it.
<b>Main Irrigation Source</b>	The main source used to irrigate crops.
<b>Agricultural Labour Force</b>	Agriculture labour force refers to all those who worked or were employed in agricultural holdings during the reference year.
<b>Holding Size</b>	Holding size refers to the total size of all parts of the holding, including owned area, rented area and any other areas that the holder has access to. The area the holder owns but rents to others should be excluded.
<b>Arable Land</b>	This includes any areas of temporary crops and fallow land that has been left to rest.
<b>Non-arable Land</b>	The area that is not suitable for cultivation of any crop due to permanent or temporary cause. For example, saline, rocky land, and steep lands.
<b>Agricultural Land</b>	Areas of temporary crops and fallow land left for rest, and area of permanent meadows, pasture, and forests.
<b>Owned Area</b>	It refers to the area owned by the holder; he has the right to decide the way to exploit it. The area owned but rented to others is not included.

<b>Rented Area</b>	It refers to the area rented by the holder from others for a limited period. This could be done against money agreed or share of production or both. Managing the holding is the responsibility of the holder.
<b>Agricultural Land Uses</b>	Land uses refer to the activities carried out on the land or a portion of the land.
<b>Land under Temporary Crops (Exposed)</b>	It refers to all exposed land used for crops with a growing cycle of less than one year, which must be newly sown or planted for additional production after harvest. Field crops, vegetables, and cut flowers are all included.
<b>Land under Temporary Crops (Covered)</b>	The area covered with protective glass, fiberglass or plastic or any other material, and this method is often used in the cultivation crops of less than one-year growing cycle, such as vegetables and cut flowers protected.
<b>Land under Permanent Crops</b>	The area devoted to crops that do not need to be replanted annually such as fruit trees.
<b>Land under Pasture Crops</b>	The area of pasture used for crops of less than five-year growing cycle, it is used for animal feed.
<b>Forest Land</b>	The area that contains heavily wooded trees, found by nature or human-induced. It is used to produce wood or as windbreaks.
<b>Nursery (Plantation)</b>	A part of the holding used to produce seedlings. The seedlings might be vegetables or field crops or trees. Forest nurseries are excluded.
<b>Fallow Land</b>	Fallow land refers to the area that is usually exploited for agricultural production within the agricultural cycle, which is left without cultivation to rest. This should be done under specific conditions.
<b>Crop Area</b>	Crop area is a surface of land on which a crop is grown either alone or respectively or together.
<b>Area of Individual Crops</b>	It refers to the surface of land on which one type of crop is grown (without any other crops).
<b>Intercrops Area</b>	It refers to the area of crops planted among another crop in the same field. The area of each crop is calculated separately.
<b>Area of Successive Crops</b>	Successive crops or catch crops are those which are sown and harvested on the same piece of land previously occupied by another crop, or even by the same crop, during the same agricultural year.
<b>Irrigated Area</b>	Area of land that deliberately supplied with water excluding rain, irrigated area is calculated only once in case the land has been cultivated more than once during the reference year.
<b>Irrigation</b>	Irrigation is to supply water (excluding rainwater) intentionally to the soil in order to improve production.
<b>Floor Irrigation</b>	It refers to the traditional system of watering crops such as flooding. No modern tools are used.
<b>Modern Irrigation</b>	It refers to the modern system of watering crops such as drip or sprinkler or

<b>System</b>	pivot irrigation.
<b>Sprinkler Irrigation</b>	It is one of the modern irrigation methods that uses tubular network through which water moves under a certain pressure to the soil.
<b>Dropping Irrigation</b>	It is one of the modern irrigation methods that uses tubular network through which water moves in small quantities under low pressure to each plan.
<b>Wells</b>	Wells are a water source that is used to irrigate crops in agricultural production. Wells used in non-agricultural purposes such as drinking wells and others are excluded.
<b>Livestock</b>	It refers to all animals raised for breeding. Livestock includes cattle, buffalo, sheep, goats, camels, and draft animals such as horses, mules, and donkeys, as well as domestic animals like chicken, ducks, geese, turkeys, ostriches, rabbits, deer and beehives.
<b>Poultry</b>	Refers to all poultry raised different purposes of production as to produce meat from broiler, or produce egg from layers, produce meat from turkeys or any type of birds and rabbits.
<b>Animal Production</b>	Includes everything manufactured or derived from live and slaughtered animals such as meat, internal organs, fat, leather, milk, eggs, wool, and honey. It also includes products derived from original animal products, such as products derived from milk.
<b>Milk Animals</b>	The number of animals that produce milk during the reference period. Animals should be excluded in case they are feeding their babies all quantity of milk.
<b>Milk Production</b>	The total amount of milk obtained from milk animals including quantities that are used to feed babies.
<b>Wool Producing Sheep</b>	The total number of sheep who are shown during the reference period. If the animal was shown more than one more time a year, it should be counted only once.
<b>Wool Production</b>	The total amount of wool produced from sheep in the reference period.
<b>Number of Births</b>	The number of animals born alive during the reference period.
<b>Slaughtered Animals</b>	All animals slaughtered during the reference period within a specific area. Animals can be local or imported for slaughter purposes.
<b>Weight of Live Animal</b>	The weight of the living animal immediately before the slaughter process.
<b>Weight of Slaughtered Animal</b>	Total weight of the slaughtered animal, including hides, head, feet, and internal organs, with the exception of blood.
<b>Net Weight of Slaughtered Animal</b>	Weight after removing specific parts. It also means the weight minus all non-edible parts.
<b>Edible remnants of Slaughtered Animal</b>	The edible parts of the slaughtered animals except fats. Fats are usually removed in slaughterhouses.

<b>Commercial Farms</b>	Farms specialised to produce one or more types of livestock. Farms should be operated in systematic commercial way; They should contain buildings and tools necessary for animal husbandry. Commercial farms include different types of chicken farms and cow farms.
<b>Commercial Cattle Farms</b>	Farms breeding cows for milk production. The farm should include cow stalls, breeding rooms, milking equipment, cooler tank, and fodder store.
<b>Broiler Farms</b>	Farms dedicated to breeding chickens for meat production.
<b>Layer Farms</b>	Farms breeding chicken to produce table eggs.
<b>Parents Stock Farms</b>	Farms breeding chicken to produce hatching eggs.
<b>Capacity of Farm</b>	The maximum number of chicks that can be kept in the farm.
<b>Fishing</b>	Any activity that involves the catching, taking, or harvesting of fish and/or other aquatic species using different fishing tools.
<b>Landing Site</b>	The location where fishing vessels unload the catch. The unload location may be the port or not.
<b>Tarad</b>	An open boat with a flat and narrow bottom. The length of the boat is approximately 68-meters, and it is equipped with a motor or two, mounted outside the boat. A fishing trip in this type of boats last 6 – 8 hours per day maximum. 1 – 4 people are usually working on the boat.
<b>Lansh (Boat)</b>	Traditional wooden boat, which is approximately 12 – 22 meters long and is equipped with internal gasoline engine. A fishing trip in this type of boats lasts 3 – 4 days. With 4 – 6 people on board.
<b>Fishing Trips</b>	Total number of fishing trips by using tarad boats and lansh boats for fishing purposes.
<b>Fishermen</b>	Fishermen (number of crew) on tarad boats and lansh boats.
<b>Permanent Agricultural Workers</b>	A person whose services are utilised regularly and continuously during the agricultural year for agricultural work on the holding. Permanent agricultural workers work for 8 months at least during the agricultural year.
<b>Occasional Agricultural Workers</b>	A person working one or more times during the agricultural year, who is not expected to work regularly or continuously on the holding. Occasional agricultural workers work for 8 months or less during the agricultural year.
<b>House</b>	It is a building or part of a building within the agricultural holding; it should be independent from the rest of the buildings in the holding. It is basically prepared for the accommodation of the holder or those residing in the holding.
<b>Housing for Animals</b>	Stables are buildings to house animals and poultry. They are usually equipped with feeding tools, poultry wards and other places for milking cows and sheep.
<b>Storage Silos</b>	Buildings dedicated to store machines, agricultural equipment, seeds, fertilizers, and pesticides.

<b>Fertilizer</b>	Fertilizer is any organic or inorganic material of natural or synthetic origin that is added to a soil to supply one or more plant nutrients essential to the growth of plants. Fertilizer contains at least 5% or more of the three nutrients (nitrogen, phosphate, potassium)
<b>Pesticides</b>	Pesticides are chemicals or organic substances to prevent, destroy, or mitigate any pest. Pesticides are produced in concentrated form; they need to be mixed (Reduced) with water or kerosene, etc.
<b>Vaccine</b>	Suspensions of killed or attenuated microorganisms (bacteria, viruses, fungi, protozoa, or rickettsia), antigenic proteins derived from them, or synthetic constructs, administered for the prevention, amelioration, or treatment of infectious and other diseases.
<b>Agricultural Machinery</b>	It refers to various types of machinery, equipment, water pumps, tractors harvesters and other machinery owned by the holder or leased from others. Machinery and equipment that are used for non-agricultural purposes are excluded.
<b>Agricultural Intermediate Consumption</b>	Agricultural inputs include all items purchased or made available and used that year to enable and improve agricultural production which include chemical fertilizers, manure, seed, water, feed, ... etc.
<b>Government Support for Agriculture Holding</b>	Service that is offered to support agricultural holdings, such as providing or developing irrigation system and other services.
<b>Merchandise Trade in Agricultural Goods and Good</b>	The statistics of merchandise trade in agricultural goods and food include goods that are added to the stock in the food and agricultural inventory of the Emirate of Abu Dhabi or deducted from it, by entering or leaving the territory of the emirate. Trade in the aforesaid goods refers only to the goods crossing the ports of Abu Dhabi Emirate, i.e., excluding other Emirates.
<b>Imports of Agricultural Goods and Goods</b>	Agricultural goods and food entering through the customs ports and economic free zones of the Emirate of Abu Dhabi from various parts of the world, except other the emirates of the UAE, whether these goods entered directly or withdrawn from customs bonds, temporary admission depots, or free zones within the UAE, and go through customs clearance to become part of agricultural and food inventory of the Emirate of Abu Dhabi.
<b>Exports of Agricultural Goods and Food</b>	Agricultural goods and food entirely produced locally or whose production process involves use of local resources that leave the ports / economic, free zones of Abu Dhabi deducting from the agricultural and food inventory of the Emirate. They may include goods that produced in other Emirates.
<b>Re-Exports of Agricultural Goods and Food</b>	Imported agricultural goods and food that enter through the customs ports and economic free zones of the Emirate of Abu Dhabi to become part of agricultural and food inventory of the Emirate of Abu Dhabi, and then re-exported as they are without any modification.



## Coverage (Geographical– Statistical Units)

Agricultural statistics cover the following fields:

1. Agricultural production statistics, encompassing the following:
  - Statistics on agricultural lands' uses;
  - Statistics on agricultural lands and distribution as per use ;
  - Statistics on the harvested lands as per the harvest type and irrigation method; and
  - Statistics on the gross plant production and productivity statistics as per the harvest type.
2. Livestock (animal production) statistics, encompassing the following:
  - Statistics on the numbers pertaining to livestock and their relevant variables;
  - Statistics on animal production in commercial farms as per type; and
  - Statistics on gross animal production as per the relevant products.
3. Agricultural economy statistics, encompassing the following:
  - Statistics on agricultural prices;
  - Statistics on the external trade of agricultural goods and food;
  - Statistics on the food balance sheet;
  - Statistics on the agricultural labour force;
  - Statistics on agricultural loans, funding, and support; and
  - Statistics on the agricultural production capital formation and costs.
4. Statistics on the natural resources pertaining to agriculture, such as water, soil, forests, and pastures; and
5. Statistics on fisheries.

At the geographic levels, the agricultural statistics cover all the regions of the Emirate of Abu Dhabi, being the following:

1. Abu Dhabi;
2. Al Ain; and
3. Al Dhafra.

In fact, agriculture holding is the main counting statistical unit adopted in terms of collecting data. It includes animal holding, plant holding, and mixed holding.

## Issue Periodicity

Agricultural Statistics Indicators (Plant Production)	Detail Level	Measurement Periodicity
<b>Number of Plant Holdings</b>	1. District 2. Area Category 3. Operating Holdings 4. Soil Salinity Categories	Annual
<b>Area of Plant Holdings</b>	1. District 2. Area Category 3. Operating Holdings 4. Land Uses 5. Soil Salinity Categories	Annual
<b>Number of Fruitful Trees</b>	1. District 2. Types of Trees	Annual
<b>Fruitful Trees Harvesting Area</b>	1. District 2. Types of Trees	Annual
<b>Number of Forest Trees</b>	1. District 2. Types of Trees	Annual
<b>Forest Trees Area</b>	1. District 2. Types of Trees	Annual
<b>Field Trees Harvesting Area</b>	1. District 2. Crop Type	Annual
<b>Vegetables Crops Harvesting Area</b>	1. District 2. Crop Type 3. Planting Method	Annual
<b>Agricultural Crops Production Quantity</b>	1. District 2. Crop Type 3. Planting Method	Annual
<b>Agricultural Crops Production Value</b>	1. District 2. Crop Type 3. Planting Method	Annual
<b>Operating and non-Operating Protected Houses Number</b>	District	Annual
<b>Operating and non-Operating Protected Houses Area</b>	District	Annual
<b>Total Irrigated Area</b>	1. District 2. Irrigation System Type	Annual
<b>Adjusted number of prices adopted by agricultural producers</b>	–	Annual
<b>Number of Agricultural Wells</b>	1. District 2. Average well depth	Annual
<b>Value of Loans granted to Farmers</b>	1. District	Annual
<b>Used Pesticides Quantity</b>	1. District 2. Pesticide Type	Annual
<b>Used Pesticides Value</b>	1. District 2. Pesticide Type	Annual
<b>Number of workers at agricultural holdings (Farms)</b>	District	Annual
<b>Number of agricultural holdings encompassed by government support</b>	District	Annual

<b>Area of agricultural holdings encompassed by government support</b>	District	Annual
<b>Number of agricultural holding members at the Farmers' Services Centre</b>	District	Annual
<b>Total of agricultural goods and foods' external trade value</b>	1. Imports amount 2. Exports amount 3. Re-exported amount	Annual
<b>Total fertilizers' external trade quantity</b>	1. Imports quantity 2. Exports quantity 3. Re-exported quantity	Annual
<b>Total fertilizers external trade value</b>	1. Imports amount 2. Exports amount 3. Re-exported amount	Annual
<b>Total pesticides' external trade value</b>	1. Imports quantity 2. Exports quantity 3. Re-exported quantity	Annual
<b>Number of imported food shipments</b>	Port type	Annual

<b>Agricultural Statistics Indicators (Livestock)</b>	<b>Detail Level</b>	<b>Measurement Periodicity</b>
<b>Number of animal holdings</b>	District	Annual
<b>Number of livestock</b>	1. District 2. Animal Type 3. Animal Gender 4. Animal Age Category	Annual
<b>Number of treated animals</b>	1. District 2. Animal Type	Annual
<b>Number of vaccinated animals</b>	1. District 2. Animal Type	Annual
<b>Number of slaughtered animals</b>	1. District 2. Animal Type	Annual
<b>Quantity of produced meat</b>	1. District 2. Animal Type	Annual
<b>Value of produced meat</b>	1. District 2. Animal Type	Annual
<b>Number of workers in animal holdings</b>	District	Annual
<b>Number of Commercial Farms</b>	Farm Type	Annual
<b>Area of commercial farms</b>	Farm Type	Annual
<b>Capacity of commercial farms</b>	Farm Type	Annual
<b>Number of cattle heads in commercial farms</b>	1. Age Category 2. Gender	Annual
<b>Production quantity in commercial farms</b>	1. Farm Type 2. Production Type	Annual
<b>Value of production in commercial farms</b>	1. Farm Type 2. Production Type	Annual

<b>Quantity of animal production accessories in commercial farms</b>	1. Farm Type 2. Production Accessories Type	Annual
<b>Value of animal production accessories in commercial farms</b>	1. Farm Type 2. Production Accessories Type	Annual
<b>Paid up capital value in commercial farms</b>	1. Farm Type 2. Holder Nationality	Annual
<b>Value of compensation granted to workers of commercial farms</b>	1. Farm Type 2. Activity Type	Annual

<b>Agricultural Statistics Indicators (Fisheries)</b>	<b>Detail Level</b>	<b>Measurement Periodicity</b>
<b>Quantity of caught fish</b>	1. Main families 2. Month 3. Landing site 4. Boat Type	Annual
<b>Value of caught fish</b>	1. Main families 2. Landing site	Annual
<b>Number of fishing trips</b>	1. Landing site 2. Boat type 3. Month	Annual
<b>Number of fishermen</b>	1. Fishing boat type	Annual
<b>Number of fishing boats</b>	1. Fishing boat type	Annual

<b>Food Balance Sheet</b>	<b>Detail Level</b>	<b>Measurement Periodicity</b>
<b>Average daily calories intake per individual</b>	1. Plant products 2. Animal products	Every 5 years
<b>Average daily protein intake per individual</b>	1. Plant products 2. Animal products	Every 5 years
<b>Average daily fat intake per individual</b>	1. Plant products 2. Animal products	Every 5 years
<b>Average annual food intake per individual</b>	1. Plant products 2. Animal products	Every 5 years

## Classifications

The classification of agricultural data is based upon the international definitions and classifications adopted in this respect and issued by the Food and Agriculture Organization of the United Nations under the "World Program for the Census of Agriculture 2020". It is also based upon the Agricultural Statistics and Classifications issued by the Federal Competitiveness and Statistics Centre.

### Relevant websites:

<http://www.fao.org/3/CA1963EN/ca1963en.pdf>

<http://methods.fcsa.gov.ae/Forms/IntlGuides/IntlGuides.aspx>

## **Main Data Sources**

The administrative records issued by the relevant entities are the main sources for agricultural data production:

1. Abu Dhabi Agriculture and Food Safety Authority;
2. Environment Authority Abu Dhabi;
3. Department of Municipalities and Transport (Abu Dhabi Municipality, Al Ain Municipality, and Al Dhafra Municipality);
4. Al Fawha Company; and
5. Statistics Centre – Abu Dhabi.

The Statistics Centre – Abu Dhabi is one of the most important agricultural data sources, providing relevant data to the Federal Competitiveness and Statistics Centre for the identification of the country's statistical indicators.

## **Data Collection Forms / Questionnaires**

Data are collection from administrative records through setting Excel sheets tables.

## **Sampling Methodology (If any)**

Not Applicable

## **Data Collection**

Agricultural statistics are collected from administrative records by gathering data under Excel sheets aligned with the data sources and are provided to the Statistics Centre by sending them via e-mail or electronically linking them among the involved entities.

## **Data Editing**

Data are edited after applying the comparison rules to the relevant tables, verifying that all required data are complete and comprehensive, comparing them with time series, compensating for the missing values and reviewing the deviating ones, measuring the quantitative and supreme difference between the variable value listed under the administrative records for the actual period and the variable value of the previous periods, and verifying that the data are logical.

## Indicators Calculation

Agricultural indicators are identified by performing calculations or using the aggregation method upon the available data, re-classifying, and publishing them. Data are processed and any missing values are accounted for by imputation. Moreover, the data are verified in terms of their consistency and logicity, the absolute and relative difference between the variable value listed in the administrative records for the actual period and the variable value of the previous periods is measured, and the inaccurate values are corrected.

Agricultural Statistics Indicators (Plant Production)	Definition	Calculation Methodology
<b>Number of Plant Holdings</b>	Plant holdings with vegetable crops, field crops, fruit trees, or all of them, that meet the holding criteria (in terms of the minimum size).	Total number of plant holdings
<b>Area of Plant Holdings</b>	The area of plant holdings includes all the agricultural holdings managed by the holder, regardless of location or legal form of the holding. They do not include the agricultural lands owned by the holder or one of his household members, as well as those leased to others. On the other hand, agricultural lands that are not owned by the holder but are rented by third parties are included in plant holdings dedicated to agricultural use.	Total area of plant holdings
<b>Number of Fruit Trees</b>	The number of fruit trees, which are considered permanent crops that do not need to be planted annually.	Total number of fruitful trees
<b>Fruit Trees Harvesting Area</b>	Area cultivated with fruit trees, which are considered permanent crops that do not require annual planting.	Total fruitful trees harvesting area
<b>Number of Forest Trees</b>	Number of (permanent) forest trees with a height is 5 meters or more (or less than 5 meters in the Emirate of Abu Dhabi), with a crown coverage of more than 10% including the planted forest trees and naturally induced trees.	Total number of forest trees
<b>Forest Trees Area</b>	Area of (permanent) forest trees which height is 5 meters or more (or less than 5 meters in the Emirate of Abu Dhabi) with a crown coverage of more than 10%, including both wild and exotic forest trees and naturally induced trees.	Total number of forest trees area
<b>Field Trees Harvesting Area</b>	Area of short-lived field crops with a life cycle is less than a year, in which such crops are planted and harvested, and their produced quantity is collected in less than a year.	Total number of field trees harvesting area
<b>Vegetables Crops Harvesting Area</b>	Harvesting area of vegetable crops planted using the uncovered or uncovered planting method and used for planting crops =with a life cycle is less than a year.	Total harvesting area of vegetable crops planted using the uncovered planting method and the total area of vegetable crops planted as per the covered planting methods.

<b>Agricultural Crops Production Quantity</b>	Quantity of agricultural crops including the produced quantity of field crops, produced quantity of trees harvests, and produced quantity of vegetables crops planted using the protected and unprotected planting methods.	Total quantity of agricultural crops including the produced quantity of field crops, produced quantity of trees harvests, and produced quantity of vegetables crops planted using the protected and unprotected planting methods.
<b>Agricultural Crops Production Value</b>	The value of the produced crops, including the value of field crops, value of trees harvests, and value of vegetables crops.	Total value of the produced crops, including the value of field crops, value of trees harvests, and value of vegetables crops planted using the unprotected planting method and value of vegetables crops planted using the protected planting method.
<b>Operating and non-Operating Protected Houses Number</b>	Number of productive and non-productive protected houses, those covered by a glass, fiberglass, plastic, or any other material to protect plants from external factors, diseases, and pests, being houses that can be used for planting permanent and temporary crops. This method is frequently used in the planning vegetables and protected flowers. Some houses may be operating while some others are not.	Total number of operating and non-operating protected houses number
<b>Operating and non-Operating Protected Houses Area</b>	Area of productive and non-productive protected houses, those covered by a glass, fiberglass, plastic, or any other material to protect plants from external factors, diseases, and pests, being houses that may be used for planting permanent and temporary crops. This method is frequently used in terms of planning vegetables and protected flowers. Some houses may be operating while some others are not.	Total area of operating and non-operating protected houses number
<b>Total Irrigated Area</b>	Irrigated area of land that has been purposefully supplied with water, other than rain in order to improve crops' production and increase the area of pasture.	Total irrigated area
<b>Adjusted number of prices adopted by agricultural producers</b>	Adjusted number of prices adopted by agricultural producers in the Emirate of Abu Dhabi, which serves indicator for calculating the average variables pertaining to agricultural products in a given year in comparison with another year known as the baseline year.	Comparison between the actual period's prices with those of the baseline period, and multiplying them by the relative weight of the goods or set of goods during the comparison period (Laspeyres equation)
<b>Number of Agricultural Wells</b>	Number of agricultural wells whose water is used for irrigating plants, as well as wells used for agricultural production purposes. These wells do not include those used for purposes other than agricultural purposes, such as drinking water wells, among others.	Total number of operating and non-operating agricultural wells
<b>Value of Loans granted to Farmers</b>	Value of loans granted to farmers based on the type of service or support provided, such as the irrigation systems used in agricultural holdings, among other things.	Total value of loans granted to farmers
<b>Quantity of Pesticides Used</b>	Quantity of chemical pesticides used, which are chemicals used for combatting agricultural and plant diseases and pests, as well as the damage that may occur during the transportation, storage, and marketing or agricultural products.	Total quantity of pesticides used in agricultural holdings
<b>Used Pesticides Value</b>	Value of chemical pesticides used for combatting agricultural and plant diseases and	Total value of pesticides used in agricultural holdings

	pests, as well as the damage that may occur during the transportation, storage, and marketing of agricultural products.	
<b>Number of workers at agricultural holdings (Farms)</b>	Number of workers employed (or employed) in agricultural holdings (farms) during the reference year.	Total number of workers who are working (or worked) in agricultural holdings (farms)
<b>Number of agricultural holdings encompassed by government support</b>	Number of agricultural holdings (farms) covered by government subsidy, according to the service type, such as irrigation networks, among other services.	Total number of plant holdings (farms) encompassed by government support
<b>Area of agricultural holdings encompassed by government support</b>	Area of agricultural holdings (farms) encompassed by government support, as per the service type, such as irrigation networks, among other services.	Total area of agricultural holdings (farms) encompassed by government support, as per the service type
<b>Number of agricultural holding members at the Farmers' Services Centre</b>	Number of agricultural holdings (farms) that are members at the Farmers' Services Centre and holding agricultural records, and which might send their products to the Farmers' Services Centre.	Total number of agricultural holdings (farms) that are members at the Farmers' Services Centre
<b>Total of agricultural goods and foods' external trade value</b>	Total value of agricultural goods and foods entering through the customs ports of the Emirate of Abu Dhabi, total value of locally produced agricultural goods and foods or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported agricultural goods and foods entering through the customs and economic zones, and that are then re-exported.	Total value of imported agricultural goods and foods, total value of locally produced agricultural goods and foods or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported agricultural goods and foods, and that are then re-exported.
<b>Total quantity of foreign trade in fertilizers</b>	Total quantity of fertilizers entering through the customs ports of the Emirate of Abu Dhabi, total quantity of locally produced fertilizers or those using local resources in terms of their production and exported through the Emirate's ports, and the total quantity of re-exported and imported fertilizers entering through the customs and economic zones, and that are then re-exported.	Total quantity of imported fertilizers, total quantity of locally produced fertilizers or those using local resources in terms of their production and exported through the Emirate's ports, and the total quantity of re-exported and imported fertilizers, and that are then re-exported.
<b>Total value of foreign trade in fertilizers</b>	Total value of fertilizers entering through the customs ports of the Emirate of Abu Dhabi, total value of locally produced fertilizers or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported fertilizers entering through the customs and economic zones, and that are then re-exported.	Total value of imported fertilizers, total value of locally produced fertilizers or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported fertilizers, and that are then re-exported.
<b>Total pesticides' external trade value</b>	Total value of pesticides (materials used for protecting plants and animals from diseases and pests) entering through the customs ports of the Emirate of Abu Dhabi, total value of locally produced pesticides or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported pesticides entering through the customs and economic zones, and that are then re-exported.	Total value of imported pesticides, total value of locally produced pesticides or those using local resources in terms of their production and exported through the Emirate's ports, and the total value of re-exported and imported pesticides, and that are then re-exported.
<b>Number of imported food shipments</b>	Number of food shipments imported through airports, ports, and land borders.	Total number of imported food shipments



Agricultural Statistics Indicators (Livestock)	Definition	Calculation Methodology
<b>Number of animal holdings</b>	Number of animal holdings containing animals (Cows or camels or goats or sheep). The holding should meet all conditions of animal holding (in terms of number of animals).	Total number of animal holdings
<b>Number of livestock</b>	Number of livestock including cattle, camels, goats and sheep, as well as domestic animals.	Number of livestock including cows, camels, goats, and sheep, as well as domestic animals, as per their type
<b>Number of animals treated</b>	Total of large animals treated as per their type	Total number of treated animals, except for birds
<b>Number of animals vaccinated</b>	Number of animals that were vaccinated against diseases	Total number of animals that were vaccinated against diseases
<b>Number of animals slaughtered</b>	Number of slaughtered animals during the reference period, in a specific region, whether from the local or imported flock, including cows, camels, goats, or sheep.	Total number of slaughtered animals, as per their type, including cows, camels, goats, or sheep
<b>Quantity of meat produced</b>	Quantity of meat produced from slaughtering animals, statistically known as the quantity of meat used for feeding purposes, considered with bones, after discarding fats and unsuitable residues for human consumption, including cows, camels, goats, or sheep.	Total quantity of produced meat
<b>Value of meat produced</b>	Value of meat produced from slaughtering animals, statistically known as the quantity of meat used for feeding purposes, considered with bones, after discarding fats and unsuitable residues for human consumption, including cows, camels, goats, or sheep.	Total value of produced meat
<b>Number of workers in animal holdings</b>	Number of workers at the traditional animal holdings during the baseline year	Numbers of workers at the animal holdings, except for workers at the commercial farms
<b>Number of Commercial Farms</b>	Number of commercial farms, including cows' farms, broiler farms, layer farms, and parents stock farms.	Total number of commercial farms
<b>Area of commercial farms</b>	Area of commercial farms allocated for raising cows and poultry	Total area of cows' farms, broiler farms, layer farms, and parents stock farms
<b>Capacity of commercial farms</b>	Maximum number of chickens as per their type, and maximum number of cattle heads that can be raised in the farm	Total capacity of cows' farms, broiler farms, layer farms, and parents stock farms
<b>Number of cattle heads in commercial farms</b>	Number of cows in commercial farms (excluding cows in traditional farms).	Total number of cows in commercial farms
<b>Production quantity in commercial farms</b>	Animal production of cows' farms, broiler farms, layer farms, and parents stock farms. Production includes cows' milk, poultry meat, table and hatching eggs, and organic fertilizers.	Total quantity of cows' farms, broiler farms, layer farms, and parents stock farms
<b>Value of production in commercial farms</b>	Value of animal production of cows' farms, broiler farms, layer farms, and parents stock farms. Production includes cows' milk, poultry meat, table and hatching eggs, and organic fertilizers.	Total value of cows' farms, broiler farms, layer farms, and parents stock farms

<b>Quantity of animal production accessories in commercial farms</b>	Quantity of used production inputs (quantity of intermediate goods used in production) at the commercial farms, including cows' farms, broiler farms, layer farms, and parents stock farms in the Emirate of Abu Dhabi.	Total quantity of used production inputs at cows' farms, broiler farms, layer farms, and parents stock farms
<b>Value of animal production accessories in commercial farms</b>	Value of used production inputs (quantity of intermediate goods used in production) at the commercial farms, including cows' farms, broiler farms, layer farms, and parents stock farms in the Emirate of Abu Dhabi.	Total value of used production inputs at cows' farms, broiler farms, layer farms, and parents stock farms
<b>Paid up capital value in commercial farms</b>	Paid up capital value in commercial farms, including cows' farms, broiler farms, layer farms, and parents stock farms.	Total paid capital as per the type of farms, including cows' farms, broiler farms, layer farms, and parents stock farms
<b>Value of compensation granted to workers of commercial farms</b>	Value of compensation granted to workers (being the value of the cash or in-kind salaries paid in favour of the working employees) in commercial farms, including cows' farms, broiler farms, layer farms, and parents stock farms.	Total value of compensation granted to workers in cows' farms, broiler farms, layer farms, and parents stock farms

<b>Agricultural Statistics Indicators (Fisheries)</b>	<b>Definition</b>	<b>Calculation Methodology</b>
<b>Quantity of caught fish</b>	Quantity of fish caught for commercial purposes	Total quantity of caught fish
<b>Value of caught fish</b>	Value of fish caught for commercial purposes	Total value of caught fish
<b>Number of fishing trips</b>	Total number of fishing trips by using Tarad boats and Lansh boats for fishing purposes.	Total number of fishing trips (Tarad boats and Lansh boats)
<b>Number of fishermen</b>	Total number of fishermen working on fishing boats (Tarad boats and Lansh boats)	Total number of fishermen
<b>Number of fishing boats</b>	Total number of shipping boats, including Tarad boats, being open boats with a flat and narrow bottom, and which length is approximately 6 – 8 meters, and Lansh boats, being traditional wooden boats, which length is approximately 12 – 22 meters.	Total number of Tarad and Lansh fishing boats

<b>Food Balance Sheet</b>	<b>Definition</b>	<b>Calculation Methodology</b>
<b>Average daily calories intake per individual</b>	Average daily calories intake per individual obtained through the consumption of available food including plant and animal products during the reference period.	Quantity of calories produced from plant sources and quantity of calories produced from animal sources, dived by 365, then divided by the number of residents
<b>Average daily protein intake per individual</b>	Average daily protein intake per individual obtained through the consumption of available food including plant and animal products during the reference period.	Quantity of proteins produced from plant sources and quantity of proteins produced from animal sources, dived by 365, then divided by the number of residents
<b>Average daily fat intake per individual</b>	Average daily fat intake per individual obtained through the consumption of available food including plant and animal products during the reference period.	Quantity of fat produced from plant sources and quantity of fat produced from animal sources, dived by 365, then divided by the number of residents
<b>Average annual food intake per individual</b>	Average annual food intake available per individual as obtained from plant animal products during the reference period.	Quantity of food available from plant sources and quantity of food available from animal sources, multiplied by 1,000 and divided by the number of residents

## Timeliness

<b>Agricultural Statistics Indicators (Plant Production)</b>	<b>Timeliness</b>
<b>Number of Plant Holdings</b>	April
<b>Area of Plant Holdings</b>	April
<b>Number of Fruit Trees</b>	October
<b>Fruit Trees Cultivated Area</b>	October
<b>Number of Forest Trees</b>	August
<b>Forest Trees Area</b>	August
<b>Field Trees Cultivated Area</b>	May
<b>Vegetables Crops Cultivated Area</b>	July
<b>Agricultural Crops Production Quantity</b>	May
<b>Agricultural Crops Production Value</b>	May
<b>Operating and non-Operating Protected/Green Houses Number</b>	May
<b>Operating and non-Operating Protected Houses/Green Area</b>	May
<b>Total Irrigated Area</b>	April
<b>Agricultural Producer Price Index</b>	October
<b>Number of Agricultural Wells</b>	October
<b>Value of Loans granted to Farmers</b>	October
<b>Quantity of Pesticides Used</b>	October
<b>Value of Pesticides Used</b>	October
<b>Number of workers at agricultural holdings (Farms)</b>	December
<b>Number of agricultural holdings covered by government support</b>	December
<b>Area of agricultural holdings covered by government support</b>	December
<b>Number of agricultural holding members at the Farmers' Services Centre</b>	December
<b>Total of value of foreign trade in agricultural goods and foods'</b>	July
<b>Total quantity of foreign trade in fertilizers</b>	July
<b>Total fertilizers external trade value</b>	July
<b>Total value pesticides' external trade</b>	July
<b>Number of imported food shipments</b>	July

<b>Agricultural Statistics Indicators (Animal Production)</b>	<b>Timeliness</b>
<b>Number of animal holdings</b>	March
<b>Number of livestock</b>	March
<b>Number of treated animals</b>	August
<b>Number of vaccinated animals</b>	August
<b>Number of slaughtered animals</b>	September
<b>Quantity of produced meat</b>	September
<b>Value of produced meat</b>	September
<b>Number of workers in animal holdings</b>	December
<b>Number of Commercial Farms</b>	August
<b>Area of commercial farms</b>	August
<b>Capacity of commercial farms</b>	August
<b>Number of cattle heads in commercial farms</b>	August
<b>Production quantity in commercial farms</b>	August
<b>Value of production in commercial farms</b>	August
<b>Quantity of animal production accessories in commercial farms</b>	August
<b>Value of animal production accessories in commercial farms</b>	August

<b>Value of paid up capital in commercial farms</b>	August
<b>Value of compensations granted to workers of commercial farms</b>	August

<b>Agricultural Statistics Indicators (Fisheries)</b>	<b>Timeliness</b>
<b>Quantity of caught fish</b>	May
<b>Value of caught fish</b>	May
<b>Number of fishing trips</b>	May
<b>Number of fishermen</b>	May
<b>Number of fishing boats</b>	May

<b>Food Balance Sheet</b>	<b>Timeliness</b>
<b>Average daily calories intake per individual</b>	December
<b>Average daily protein intake per individual</b>	December
<b>Average daily fat intake per individual</b>	December
<b>Average annual food intake per individual</b>	December

## **Dissemination**

Data are published under statistical tables or issues uploaded on the website of the Statistics Centre – Abu Dhabi.



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