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Introduction

Industry sector is considered to be one of the main economic sectors in many countries and plays an important role in the economic development and developing other economic sectors and labor force thus, contributing to gross domestic production. Given this importance and in light of efforts made by CSO and KRSO to provide annual and accurate statistical data it becomes very important to develop and raise its contribution to the GDP through the analytical studies of the statistical data for number of economic variables such as production, value added , labor force, wages, fixed capital formation…., etc.

Directorate of Industrial Statistics in cooperation with KRSO conducted a comprehensive annual survey on establishments and produce reports include key indicators on extraction industries (except oil) and manufacturing by sector: public, mixed, cooperative and private, many attempts since 50ths of the last century have been made to differentiate between handicrafts, domestic industries, (small, medium and large) industries based on two criteria: labor force and capital formation (machinery) where large industries was characterized by employing 30 employees or more. Or the value of the machinery and equipment (100) thousand dinars or more based on industrial survey for the year 1983 .due to inflation criterion was excluded capital value and focus on the criterion of employment. When distinction between large, medium and small establishments.

Objective

Providing indicators and detailed data on industrial activity based on UN recommendations in the field of industrial statistics that meet the needs of users and decision makers.

Methodology

Analytical functions

Employee's productivity from production = Production value/number of employees

Value added = Revenues – supplies

Employee's productivity from value added = Value added –number of employees

Dinar productivity from wages = Production value / wages

Average employee share of supplies = Supplies value / No. of employees

Average annual wage per employee = Wages / No. employees

Rate of manufacturing % = (supplies value / production value) ×100

Rate of change = (value of current year/value of previous year) ×100-1

Concepts and Terminology

- Rate of manufacturing: Percentage of total supplies value to total production value.
- Supplies: Total crude (raw material) value) + total packing &packaging value+ total other commodity supplies + service supplies.
- Inputs: Total crudes value (raw material) + total packing &packaging value only in production currency.
- Outputs: Total value of completed production + incomplete production value + revenue of employing others.

Data comprehensiveness

The statistic included all the establishments whose main activity falls within the activities of mining, quarrying and manufacturing industries, as well as the massacres belonging to the general municipal directorates and obligersIt should be noted that data collection for the year 2018 depends on a comprehensive framework that was provided through the results of the inventory and numbering for the general population census carried out by the Central Statistical Organization in 2009 and after its preparation and updating by the Industrial Statistics Directorate in cooperation with the Statistics Directorates in Baghdad and the provinces. The International Standard Industrial Classification Manual for all economic activities was revised fourth (ISIC4) and the large industrial facilities were fully covered in all governorates of Iraq except for the provinces of the Kurdistan Region

Mechanism of data collection and production

Large Industrial establishment's survey is one of the periodical surveys whose implementation plan is a methodological one where industrial in-service establishments are comprehensively covered, the frame is annually updated and the cadre is provided with questionnaires to be filled by interviews.

After auditing, the questionnaires are sent to be audited and coded in the Directorate of Industrial Statistics based on the adopted coding and validation rules, computerized and audited in IT Directorate and finally produce output tables to prepare the report.

Key Indicators

1. The number of large industrial facilities operating

The number of large industrial establishments reached (1161) establishments in the year 2018 within the general framework, of which (600) are operating establishments, and (591) are suspended facilities, and when the number of operating establishments of (600) established in 2018 is compared to 2017 (551) Facility We note an increase in the number of establishments by a percentage of (8.9%), while the percentage of discontinued establishments reached (50.9) of the total framework of large industrial establishments.

2.The number of workers

The number of employees reached 114762 employees in the year 2018, including (455) employees working without pay, i.e. an increase of 3.1% over the year 2017, as the number of workers was (111374) employees, and the reason for the increase is due to the increase in the number of establishments and the inclusion of Nineveh Governorate in the survey.

3.The value of wages and benefits

The value of wages and benefits amounted to (1449) billion dinars in 2018 compared to 2017, as the value of wages (1431) billion dinars, achieving an increase rate of (1.3%).

4.Production value

The value of production increased in the year 2018, reaching (7191) billion dinars compared to 2017, which amounted to (5998) billion dinars, i.e. an increase of 19.9%

5 .Value of supplies

The value of supplies increased in the year 2018, reaching (3867) billion dinars, compared to 3489 (billion dinars), i.e. an increase of 10.8%.

6.Sales value

The value of sales increased in the year 2018, when it reached (6770) billion dinars, compared to 2017 (5657) billion dinars, or an increase of 19.7%

7. Value Added

The added value for the year 2018 increased to (3324) compared to 2017 ($ 2509) billion, with an increase of (32.5%)

Table (1) Summary of Industrial Statistics Results for Large Industrial Establishments for the Years (2014-2018)

Year / Indicator	2014	2015	2016	2017	2018	Change rate for 2017-2018
Number of establishments	616	600	566	551	600	8.9
Number of employees	134818	129024	109574	111374	114762	3.1
Wages and benefits (million ID)	1574	1447	1247	1431	1449	1.3
Production value (million ID)	4271	5469	4969	5998	7191	19.9
Production supplies value (million ID)	2292	3042	2810	3489	3867	10.8
Sales value (million ID)	3920	5233	4535	5657	6770	19.7
Value added (million ID)	1978	2427	2159	2509	3324	32.5

Figure (1) the number of large industrial facilities for (2014-2018)

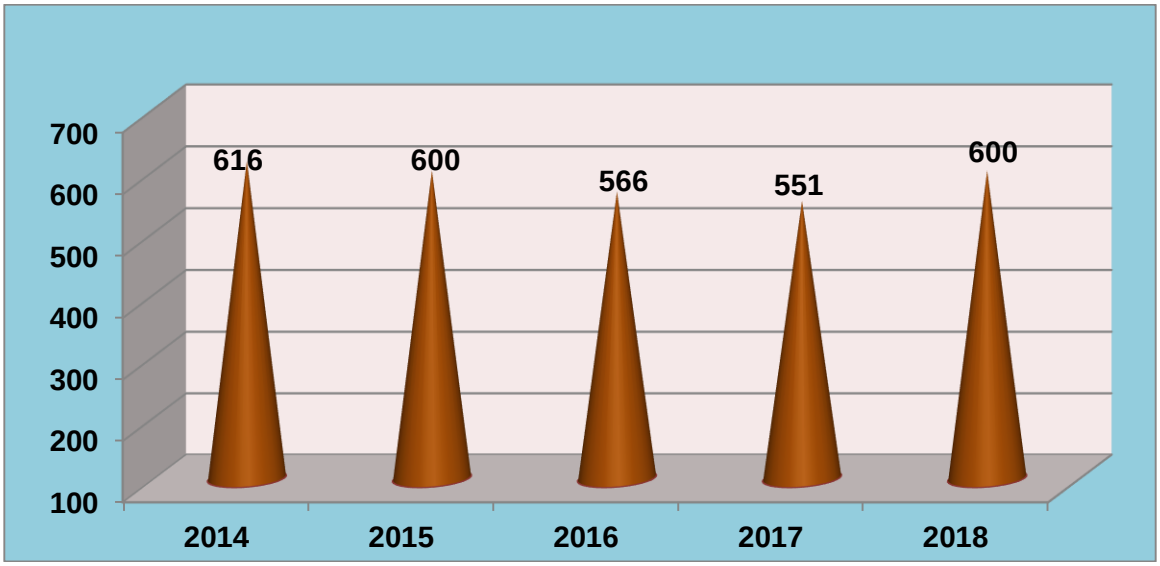

Figure (2) Total production and supplies value in trillions for large industrial establishments for (2014-2018)

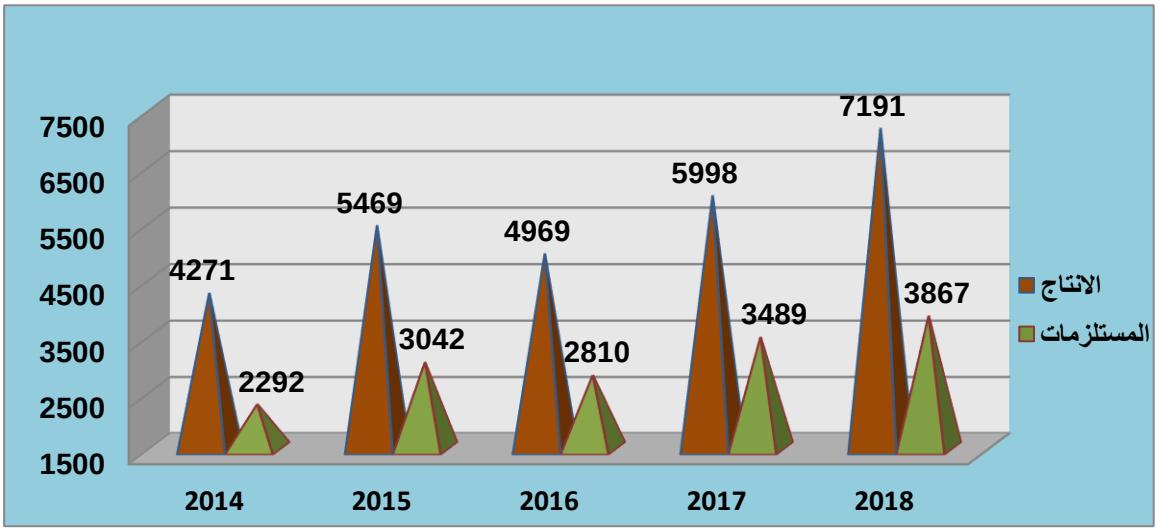

Figure (3) The value of wages and benefits for large industrial enterprises (in billion) for the years (2014-2018)

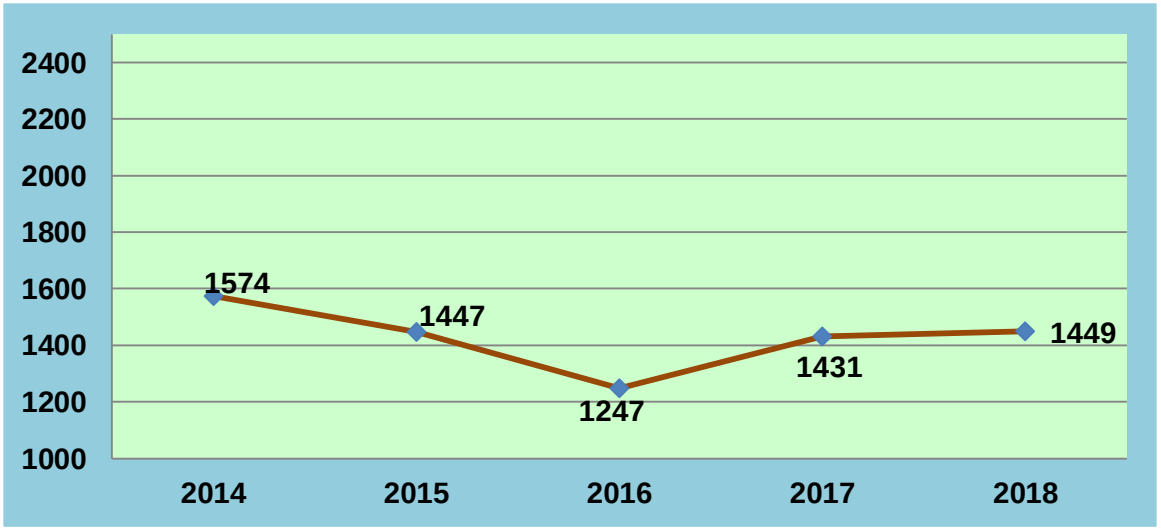

Table (2) the main indicators of large industrial establishments for the years (2014-2018)

Indicator	2014	2015	2016	2017	2018	Change rate for2018-2017
Employee's productivity from production (000ID)	31.7	42.4	45.4	53.9	61.2	13.6
Employee's productivity from value added	14.7	18.9	17.7	22.5	28.3	25.8
Dinar productivity from wages	2.7	3.8	4	4.2	4.9	16.7
Average annual wage per employee (000ID)	11.7	11.2	11.4	12.9	12.7	-1.6
Manufacture rate %	53.7	55.6	56.6	58.2	53.8	-7.6

Figure (4) Employee's productivity from production for large industrial establishments in million ID for (2014-2018)

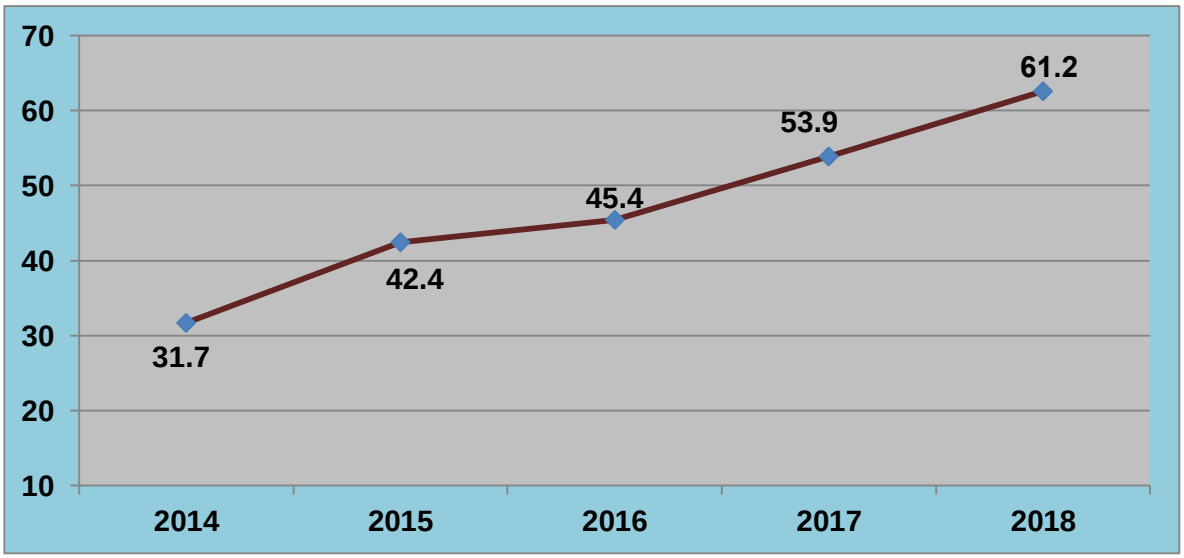

Figure (5) Employee's productivity from value added in million for large industrial establishments for (2014-2018)

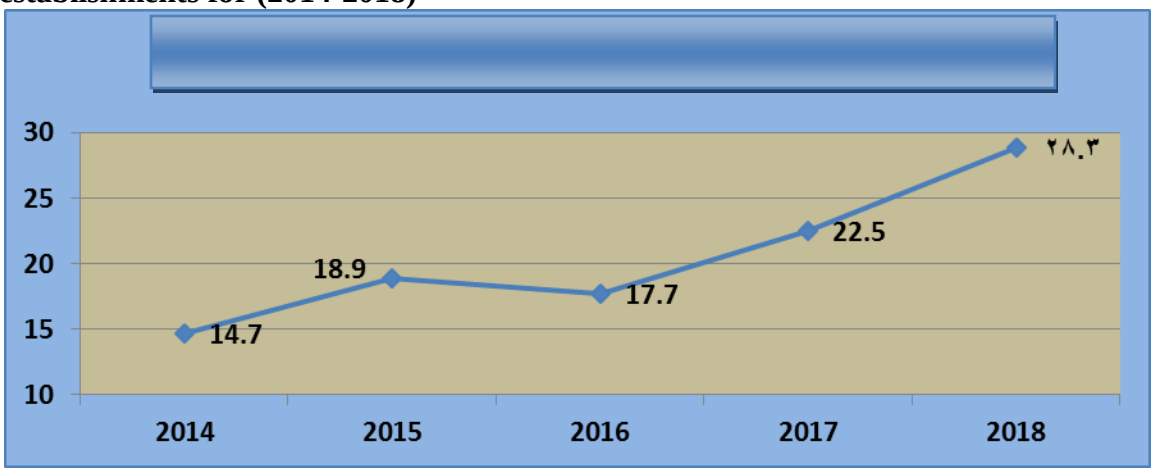

Figure (6) Dinar productivity from wages for large industrial establishments for (2014-2018)

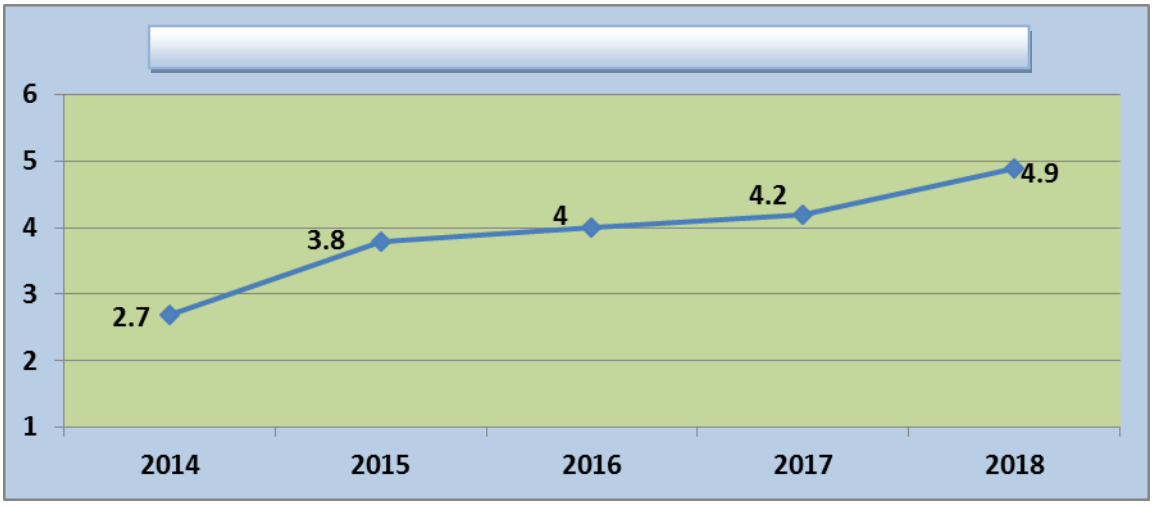

Figure (7) Annual average per employee (million ID) in large industrial establishments for (2014-2018)

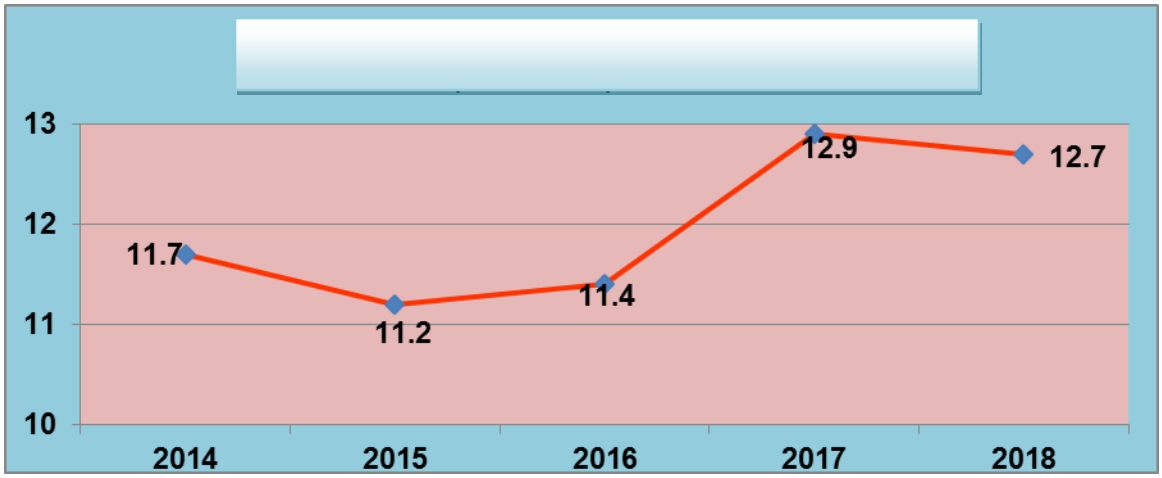

Table (3) Summary of large industrial establishments statistics by sector for 2017

Sector / Indicator	Governmental	Public	Private	Mixed	Mixed Iraqi + foreign	Total
Number of establishments	31	28	535	4	2	600
Number of employees	34230	55793	22842	597	1300	114762
Total wages and benefits(million ID)	472	792	159	5	21	1449
Industrial production value(million ID)	2058	2251	2545	10	326	7191
Production supplies value(million ID)	812	899	1905	3	246	3867
Sales value (million ID)	1967	2055	2409	7	332	6770
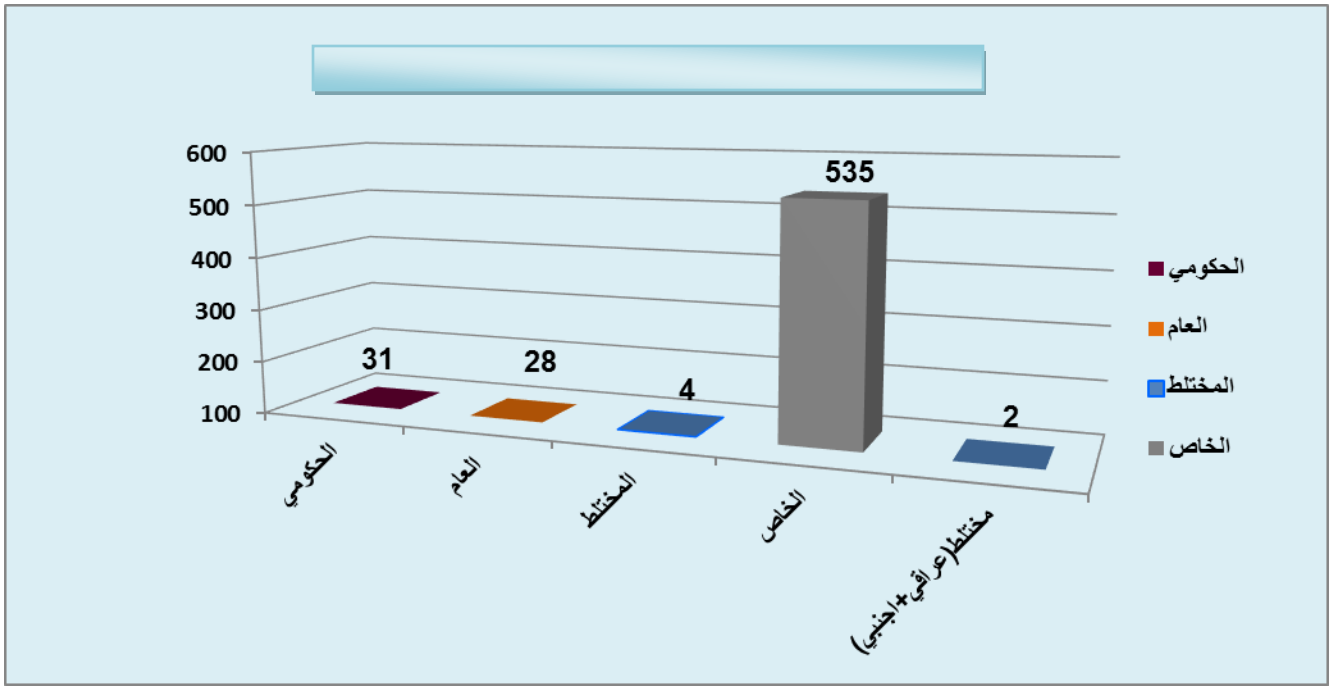
Figure (8) number of large industrial establishments by sector for (2014-2018)