



Palestinian Central Bureau of Statistics
Economic Statistics Directorate

The Industrial Survey – 2000

User's Guide

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Concepts and Definitions

Statistical unit:

The SNA of 1993 defines two major statistical units:

- Institutional unit (enterprise): An economic entity that is capable, in its own right, of owning assets, incurring liabilities and engaging in economic activities and transactions with other entities.
- Establishment: An enterprise or part of an enterprise in which one group of goods and services is produced (with the possibility of having secondary activities).

Enterprises Sectors:

According to SNA1993, they are government, household, non-profitable enterprises, finance and non-finance companies. For industrial enterprises they are either household sector or non-finance companies.

Output:

Value of goods and services, including own-account goods, produced during a specific period.

Intermediate consumption:

Value of production inputs from both goods and services.

Gross value added:

Output minus intermediate consumption.

Compensation of employees:

Wages, salaries and other allowances and remuneration in cash or in kind.

Taxes on production less subsidies:

Taxes assessed on producers with respect to the production, sale, purchase or use of goods and services, less production subsidies.

Aids:

The current payments to the producers from the government according to output levels.

Depreciation:

They are the assets value which reproduced and depreciated during the year, depreciation is calculated on the current substitutive value.

Operating Surplus:

Value added-(compensation of employees + taxes on production less subsidies + Depreciation of fixed assets).

Gross Fixed Capital Formation:

It is measured by value of acquisitions less disposals of new or existing fixed assets.

Principal economic activity:

It is the main activity of the enterprise during the reference year, using (ISIC - 3) for classification and coding.

Survey Questionnaire

They are two forms of the industrial survey questionnaire 2000, the first one is related to household and branches, the second is related to non-finance companies sector. The questionnaire contains of the following main variables:

1. Number of employees in a company and their compensations.
2. The output of the main and second activities.
3. Goods production inputs.
4. Various payments and transfers.
5. Indirect taxes.
6. Enterprises assets.

Data Sets Linkage

There are 14 data file in this CD-ROM, with one key variable in each file to allow the linkage between these files. The following table describes the files names content and identification variables.

File Name	Content	Identification Variables
Econ00_main	Identification data	Est_no: establishment number
Fixed00_assets	Data about establishment assets.	Est_no: establishment number
Goods00_selling	Purchasing goods for selling purpose.	Est_no: establishment number
Labor00_salaries	Persons engaged and their compensations	Est_no: establishment number
Pays00_drafts	Various payments and transfers	Est_no: establishment number
Prod00_expend	Other output expenses	Est_no: establishment number
Prod00_materials	Goods productions	Est_no: establishment number
Row00_materials	Goods Production Inputs	Est_no: establishment number
Row00_othermate	Continued : Goods Production Inputs	Est_no: establishment number
Services00_income	Revenues of Services Rendered to Others	Est_no: establishment number
Taxes00_fees	Indirect Fees and Taxes	Est_no: establishment number
Row00_oilmate	Production Inputs Fuel and oil	Est_no: establishment number
Different00_income	Various transfers and revenues	Est_no: establishment number
Elc00_water	Electricity and water	Est_no: establishment number

Target Population

PCBS depends on the International and Industrial Classification of all economic activities , version 3, (ISIC – 3) by the United Nation to classify the economic activities. All enterprises and establishments are classified according to the Establishments Census 1997 which works in agreement with (ISIC – 3).

The industrial survey covers the following activities:

1. Mining and Quarrying
2. Manufacturing
3. Electricity and Water Supply

Objectives:

The objective of the survey was to obtain data on:

- 2.1 Number of enterprises and persons engaged in industry by activity and location.
- 2.2 Value of output, intermediate consumption and stocks.
- 2.3 Value added components.
- 2.4 Payments and transfers.
- 2.5 Capital formation.
- 2.6 Contribution of the surveyed activities to the GDP and other National Accounts variables.

Sample and Frame

The number of the industrial sector enterprises of the year 2000 is 14509 for all Palestinian Governorates according to the Establishments Census 1997.

Sample design:

The sample of the Industrial Survey is a single-stage stratified random - systematic sample in which the enterprise constitutes the primary sampling unit (PSU). Three levels of strata were used to arrive at an efficient representative sample (i.e. economic activity, size of employment and geographical levels). The sample size amounted to (2339) enterprises out of the (14509) enterprises that comprise the survey frame.

Weighting and Estimation

Weighting Calculation:

The sampling weight of the enterprise is the mathematical turned of the possibility selection of that enterprise. It is necessary to use weights in the estimation of the survey society because of the differentiation in the possibility of enterprises' selection from another one.

Table of Weighting and Estimation of each Strata

Strata	Weight	Strata	Weight	Strata	Weight	Strata	Weight
1141	137.03962	1341	4.14054	3222	4.48108	151433	1.25367
1142	154.11341	1351	1.41369	3223	1.09709	151502	1.69643
1143	6.2683583	1352	1.36343	3240	2.34455	151901	1.41369
1151	1097.2108	1361	1586.5	3241	10.5948	152312	8.34076
1152	218.40348	1362	110.454	3242	12.2843	152333	1.25367
1153	13.790388	1363	3.76102	3243	2.19418	152342	26.2946
1161	2.7268531	1371	1.41369	3251	18.4514	163022	1.41369
1162	4.1405413	1372	1.36343	3252	23.5798	252202	3.43385
1163	1.2536717	1401	26.981	3253	5.48546	252203	1.80729
1171	162.55321	1402	4.09028	3260	1.21655	252341	5.03459
1172	31.926512	1403	1.25367	3261	335.796	252343	1.4
1173	14.009898	1411	128.977	3262	116.458	252391	1.80729
1181	668.04732	1412	1.36343	3263	10.9709	252601	4.15676
1182	406.9089	2151	33.5239	3271	5.72854	345401	18.4511
1183	76.863945	2152	1.80729	3272	6.70617	351502	1.128
1191	471.24926	2171	1.80729	3281	719.472	352311	1.21655
1192	164.18937	2181	34.3385	3282	44.8425	352322	9.97574
1193	12.536717	2191	5.01458	3290	9.55532	352391	14.0825
1201	528.01775	2201	21.6875	3291	55.8565		
1202	22.739232	2221	3.61458	3292	16.4072		
1203	1.2536717	2222	2.8	3310	1.128		
1211	14.973516	2241	1.4	3311	26.4728		
1212	18.369949	2261	3.61458	3312	3.32218		
1213	8.7757017	2262	1.4	3313	1.09709		
1221	130.17942	2272	1.4	3321	1.21655		
1222	21.48556	2281	23.4947	3323	1.09709		
1223	2.5073433	2361	10.8437	3331	14.1559		
1241	90.128128	2402	1.4	3332	1.09709		
1242	37.218293	3150	3.38399	3341	4.60054		
1243	12.646472	3151	401.16	3342	3.35308		
1251	48.266512	3152	46.9432	3351	3.47255		

Strata	Weight
1252	47.075307
1253	7.52203
1261	650.34516
1262	529.28816
1263	36.356478
1271	8.3816059
1272	8.0708045
1281	2231.5808
1282	79.097066
1283	6.2683583
1291	124.88503
1292	18.758707
1293	5.0146867
1311	48.674387
1312	5.1244416
1313	1.2536717
1331	39.76948
1332	2.7268531

Strata	Weight
3153	14.2622
3171	48.9902
3172	23.1554
3173	1.09709
3181	376.529
3182	425.953
3183	45.193
3190	1.21655
3191	23.0586
3192	16.4917
3193	1.128
3200	1.21655
3201	249.277
3202	11.2182
3203	2.19418
3211	2.43311
3212	6.64436
3221	30.2694

Strata	Weight
3360	5.99421
3361	342.837
3362	50.7472
3363	5.48546
3371	2.34455
3411	244.185
25239	3.97603
111292	1.36343
145201	9.53641
145203	1.25367
145301	2.01268
145401	5.70913
151101	4.78479
151222	25.4464
151223	3.87077
151312	4.38243
151391	21.4073
151432	22.619

Strata	Weight
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Estimation Calculation:

To calculate a variable as Y in a partial society as A on a study as D, we use the following:

$$\hat{Y}_{AD} = \sum_h \sum_{J \in A} W_{hj} Y_{hj} \dots (1)$$

\hat{Y}_{AD} : it the estimated sum of the variable Y in a partial society A in a study D.

h: Strata code.

J: the register code in the data file of the partial society A.

A: a partial group from the registers related to a specific partial society.

D: a study scope as a specific governorate.

Whj: the weight of the analytical unit No. "j" in a partial society A in a strata h in a study D.

Calculation of Variance

It is necessary to associate with an estimated statistical number by a sampling survey another one which refers to the existing accuracy in the estimation. CENVAR program is used for estimation. The following measures are used for the main economic indicators as they are in table 1:

1. Standard Error, whether the mistake is a result of being the survey is performed by a sample or comprehensive frame.
2. Coefficient of Variation, $\frac{\text{Standard Error}}{\text{Estimation}} \%$
3. DEFF, $\frac{\text{the variance by a compound sample}}{\text{the variance by a simple random sample}}$
4. 95% Confidence Interval, whether the survey is performed once or many times, the confidence interval will remain 95%.

Reference Date

It is the period which data are gathered about, the period of this data is 2000.

Data Collecting

Questionnaire Test:

Doing a primitive pretest during two days to make a technical study of the questionnaire, study the rejection and the data quality.

Workers Selection and Training:

The interviewers in the fieldwork are selected from the experienced ones in the statistical work and they are also trained theoretically and practically.

Fieldwork operations:

They are initiated after the recruitment and training of qualified interviewers. The PCBS's Fieldwork Directorate administers fieldwork activities including interviewing activities.

Data Collecting Method:

Data are gathered by using an interview with the enterprise owner or general manager by applying the survey questionnaire.

Fieldwork Editing:

The interviewer and supervisor firstly edit technically the questionnaire according to editing rules.

Office Editing:

The office editor also edits the questionnaire in order to be ready to be sent to coding and data entry.

Coding:

After the editor finishes editing the questionnaire, a coding are used according to (ISIC – 3), then the questionnaire is transferred to data entry.

Response Rate

Non response:

1. Temporarily closed
2. Could not reach the address
3. Did not practice any activity in 2000
4. Refusal
5. The Balance isn't ready
6. Israeli Ownership
7. Of Different Ownership
8. Converted from other surveys and not completed

Over Coverage:

1. Enterprises practice economic activities out of the survey.
2. Repeated
3. Central government
4. Agricultural Appropriation
5. Branch Keep No Records
6. Isn't an Establishment as Recognized
7. Branch Keeps Records & the Center Out of the Sample

Net Sample = Sample – Over Coverage

Over coverage ratio mistakes = $\frac{\text{sum of over coverage stages}}{\text{sample stages}} * 100\%$

Non response = $\frac{\text{non response stages}}{\text{net sample}} * 100\%$

Response ratio = 100% - non response ratio

Data Quality

Fieldwork Notes:

- Fieldwork is continued up to the plan in spite of the decrease in interviewers.
- There are some refusal in spite of the high ratio of response in comparison with other countries.
- Data are given to interviewers from records when it is possible or by estimation.
- The non response for Jerusalem has been high because of its special position. PCBS insists on publishing data about Jerusalem by Jerusalem Department.