

UNITED NATIONS ECONOMIC AND SOCIAL COUNCIL



Distr. GENERAL

E/CN.3/404 19 December 1969

ORIGINAL: ENGLISH

Statistical Commission Sixteenth session Item 12 of the provisional agenda

DRAFT RECOMMENDATIONS

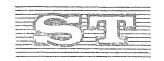
FOR THE

1973 WORLD PROGRAMME OF INDUSTRIAL STATISTICS

PART I. GENERAL STATISTICAL OBJECTIVES

Report of the Secretary-General

- ...l. The attached document (ST/STAT, 44) has been prepared in response to a request by the Commission at its fifteenth session. It is the first in a series of three documents intended to define the objectives of the 1973 World Programme of Industrial Statistics and to indicate appropriate methods of carrying out the related inquiries in each country. Parts II and III in the series (see E/CN.3/405 and E/CN.3/406) deal, respectively, with the individual commodity detail proposed for collection and with the organization and conduct of the national inquiries.
 - 2. The three documents in the series were distributed to countries and to interested regional and international agencies for comments. Summaries of the comments received and of the proposals of the Secretary-General for the preparation of definitive editions of the documents are before the Commission as E/CN.3/404/Add.1, E/CN.3/405/Add.1 and E/CN.3/406/Add.1



UNITED NATIONS

SECRETARIAT



Distr. LIMITED

ST/STAT/44 11 December 1969

ORIGINAL: ENGLISH

STATISTICAL OFFICE OF THE UNITED NATIONS

DRAFT RECOMMENDATIONS

FOR THE

1973 WORLD PROGRAMME OF INDUSTRIAL STATISTICS

PART I. GENERAL STATISTICAL OBJECTIVES

CONTENTS

| | | | | | | | | | | | | | | | | | Paragraphs |
|------|-------------|---------|----------|---------|---------|---------|-----|------|------|-----|-----|---|---|---------|---|----|------------|
| I. | PREF | ACE | p & & o | , , , , | 3 0 8 | ş 9 | a | 9 6 | s e | 9 | 3 a | 9 | 0 | 9 | ù | ٥ | 1 - 5 |
| II. | GENE | RAL CHA | RACTER C | F THE | PROGRA | MME | o | e e | | 0 | | 6 | a | 0 | | • | 6 - 33 |
| | a. | Purpos | e | | • • • | 9 9 | 0 | n 11 | | ۰ | 9 9 | ۰ | 9 | 9 | 0 | e | 6 - 9 |
| | b. | Relati | onship t | to othe | er indu | stria | al | inc | qui | rie | 3 . | v | 4 | | e | | 10 - 11 |
| | C , | Nature | of prog | gramme | 9 G D | • • | 0 | 0 0 | , , | ٠ | | ٠ | 9 | 9 | ə | 9 | 12 - 14 |
| | d. | Scope | | e ø 0 | | p 0 | 6 | a 0 | , 4 | ė | D 0 | 9 | 9 | e | e | 9 | 15 - 18 |
| | e. | Statis | tical ur | nit | 0 9 6 | 9 9 | 6 | 0 0 | | ٠ | | | ۰ | o | ŧ | * | 19 - 21 |
| | f. Coverage | | | | | | 0 | | 0 | 9 | ٠ | 0 | 0 | 22 - 28 | | | |
| | g, | Classi | fication | n by in | ndustry | | e | 9 0 | | | a • | e | e | 6 | n | e | 29 |
| | h. | Time r | eference | | 0 Ø 6 | | 9 | ø G | | e . | | • | e | • | | 0 | 30 |
| | i. | List o | f items | and pr | rioriti | es , | a | 9 4 | | ٠ | | • | 9 | 0 | ۰ | 6 | 31 |
| | j. | Tabula | tion of | the re | esults | e 5 | Ð | 0 6 | | 0 | 2 9 | ۰ | ٥ | 0 | 9 | * | 32 |
| | k. | Public | ation of | resul | ts | 6 9 | 9 | 6 9 | | | a 0 | ٥ | v | ø | ۴ | ٥ | 33 |
| III. | CONTI | ENT OF | THE PROG | RAMME | o o o | | ٥ | 0 0 | 6 | e : | | e | 6 | o | | ø | 34 - 80 |
| | Sect: | ion 0. | Summary | of Ac | tivity | 0 0 | e | 0 0 | | 0 1 | | 0 | | e | ۰ | 0 | 37 - 40 |
| | Sect | ion l. | Employm | ient an | d earn | ings | e | 0 0 | o | 9 (| | ø | | e | | 6 | 41 - 49 |
| | Sect: | ion 2. | Gross c | utput | and it | s con | npo | sit | cior |) (| 9 | ۰ | c | e | e | 9 | 50 53 |
| | Sect: | ion 3. | Nature | of int | ermedi | ate i | inp | ut | n | 6 1 | | 0 | 9 | s | e | ø | 54 - 58 |
| | Sect: | ion 4. | Measure | s of v | alue a | dded | 6 | 9 0 | 0 | 0 (| | | 6 | < | 0 | 0 | 59 - 62 |
| | Sect: | ion 5. | Changes | in st | ocks . | o • | c | e 0 | 0 | 0 (| e | ć | , | ņ | | ė | 63 - 66 |
| | Sect: | ion 6. | Gross f | ixed c | apital | form | nat | ion | l . | 0 (| | e | ¢ | v | | e | 67 - 70 |
| | Sect | ion 7. | Product | ion of | indiv | i dua l | _ p | rod | luct | s . | | 6 | 9 | 0 | ¢ | 6 | 71 - 75 |
| | Sect: | ion 8. | Consump | tion o | f indi | vidue | 1 | mat | eri | al: | D n | e | 4 | 9 | 0 | to | 76 - 80 |

I. PREFACE

1. At its 15th session in 1968, the United Nations Statistical Commission approved the proposal of the Secretary-General for the preparation of a 1973 World Programme of Industrial Statistics. Following the action of the Statistical Commission, the Economic and Social Council adopted the following resolution on the subject at its 44th session:

"The Economic and Social Council,

Recognizing the need for data on the structure and activities of industry on a world-wide basis for purposes of economic and social development,

Noting that the Statistical Commission has made recommendations for a system of industrial statistics for use by Member States,

Recommends that States Members of the United Nations or members of the specialized agencies compile basic data on industry for 1973 or a year close to 1973, taking into account as far as possible the international recommendations on this subject." Resolution 1305 (XLIV)

- 2. The present document has been prepared by the United Nations Statistical Office with a view to defining the principal statistical objectives of the 1973 Programme. It outlines the character and content of a programme of national industrial inquiries developed from the existing international recommendations for work in this field. These recommendations have been adapted and supplemented in this document to provide countries with further precision and more specific guidance on various aspects of the form and content of the proposed inquiries.
- 3. Two other documents have been prepared in draft form as part of the over-all recommendations for the Programme. The first of these adds important detail to the general statistical objectives indicated in the present

International Recommendations for Industrial Statistics (Statistical Papers, Series M, No. 48) United Nations publication, Sales No.: 68.XVII.10. These recommendations are subsequently referred to as IRIS.

document by specifying a standard list of products and materials for which production and consumption data should be compiled. The second deals with the practical aspects of undertaking the inquiry, beginning with the tentative planning phase and ending with the publication of the final tables and the evaluation of the over-all results.

- 4. The draft recommendations presented in these documents are intended for discussion on a world-wide basis. They are designed as a minimum programme of data compilation which almost all countries can expect to complete with a satisfactory degree of accuracy and comparability. Since the majority of countries will wish to go beyond this minimum programme to meet their own special requirements or to serve common regional needs, provision has been made both for modifications in the form and content of the inquiry on a national basis and for the development of standard regional adaptations of the Programme as a whole.
- These documents will be submitted to the Statistical Commission at its sixteenth session, in October 1970, together with a summary of the comments on the draft recommendations received from countries and interested regional and international agencies. It is hoped that, after revision in the light of these comments and the Commission's discussion, the final recommendations for the 1973 Programme will be ready for publication in 1971.

Document ST/STAT/45: List of Products and Materials.
 Document ST/STAT/46: Organization and Conduct of Industrial Censuses.

II. GENERAL CHARACTER OF THE PROGRAMME

a. Purpose

- 6. The 1973 World Programme of Industrial Statistics is the second programme of its kind sponsored by the United Nations Statistical Commission. It follows a similar programme sponsored by the Commission for the year 1963 in which about one hundred countries and territories participated. A record of participation in the 1963 Programme and of the results obtained has been published by the United Nations Statistical Office. 1
- 7. The main function of these Programmes is to encourage the orderly development of national inquiries into the structure and activity of the industrial sector. Benchmark inquiries of this kind have been provided for in the international recommendations for the compilation of industrial statistics (IRIS) and a ten-year interval between such inquiries has been recommended by the Statistical Commission as an appropriate minimum frequency. In the international recommendations, such benchmark inquiries are regarded as an essential part of an integrated system of national industrial inquiries.
- 8. A second function of the 1973 Programme is to guide and coordinate national activity in industrial census-taking with a view to broadening the scope and improving the comparability of the statistical information on industry available on an international basis. Thus, provision is made in the Programme not only for the collection of information according to uniform procedures but also for the compilation of this information in a uniform manner and for its subsequent publication in standard form.
- 9. Both functions of the Programme are ultimately directed to the improvement of the flow of information on industrial activity and structure as a means of accelerating economic and social development. Requirements for this purpose are expressed at the national level both in terms of arrays of national data and in terms of compilations of comparative data for other countries, for regions and other groupings of countries, and for the world

l/ Bibliography of Industrial and Distributive-Trade Statistics (Statistical Papers, Series M. No. 36, Rev. 3). United Nations publication, Sales No.: 67, XVII. 20.

as a whole. At the regional and international levels, similar needs are expressed by the various agencies concerned with general economic planning and development, as well as by those agencies such as UNIDO which are concerned more directly with the industrial sector.

b. Relationship to other industrial inquiries

- 10. The sponsoring of such programmes on a decennial basis is not intended to imply any reduction in the importance of industrial inquiries on an annual or more frequent basis. The most recent view of the Statistical Commission on this matter is that an annual inquiry should be regarded as the central inquiry of a coordinated system for the collection of industrial data, and that a benchmark inquiry of the kind envisaged here should be regarded as a supplement to the annual inquiry. The distinctive functions of the benchmark inquiry are (i) to establish a detailed profile of the structure of the industrial sector, and (ii) to provide a broader and more accurate array of information on the activity of the sector than would normally be feasible on an annual basis. Given this detail, the benchmark inquiry can supply the framework needed for undertaking special surveys of the sector and can furnish the basic information required for the evaluation and adjustment of current indicators. In those countries where annual inquiries have not yet been instituted, an inquiry of the type envisaged here can provide an appropriate basis for their organization and development.
- 11. The 1973 inquiry is intended to be regarded in each country as an integral part of its national system of industrial inquiries. The degree of effort required to undertake the inquiry will vary from country to country: in some cases, a major new undertaking may be involved; in others, it may only be necessary to modify the existing pattern of inquiries or supplement the annual reporting system. In all cases, the inquiry should be fitted into the existing national system with the minimum of disturbance; where important modifications to the system are required, consideration should be given to introducing on a more permanent basis the changes needed to bring the system into line with the international recommendations for work in this field.

c. Nature of programme

- 12. The statistical objectives of the Programme outlined in the present document are drawn essentially from the international recommendations for benchmark inquiries into the industrial sector (IRIS). They are defined not only in terms of the items of information which should be collected and tabulated but also in terms of the scope and coverage of the inquiry, the nature of the statistical unit to be employed and the classifications that should be adopted. It is particularly important from the point of view of achieving international comparability that the recommendations should be observed in all these respects and not solely in terms of the collection of the recommended items of information. Past experience indicates that critical obstacles to the comparability of the information collected are frequently posed by divergences from country to country in the classifications used and in the nature of the coverage of the sector which has been achieved.
- 13. The remaining paragraphs of this part of the document are largely taken up with proposals relating to scope, coverage and classification.

 Part III of the document contains the proposals for the items of information which should be collected on each major topic and for the tables which should be prepared for international purposes.
- 14. The international recommendations for benchmark industrial inquiries (IRIS) provide a number of options with respect to the coverage and content of the inquiries. These options are expressed by the presentation of simplified recommendations for countries just beginning to develop their statistical systems and by the indication of priorities for the collection of individual items of information from large and small statistical units. Flexibility of the latter type has been largely preserved in the Programme proposed here.

d. Scope

15. The Programme proposed is intended to cover the industrial sector in each participating country. The sector is defined in accordance with the international recommendations to include all establishments within the territorial boundaries of the country engaged primarily in mining, manufacturing

and the production and distribution of electricity, gas and water. Industrial activities in international waters, such as the operation of petroleum and natural gas wells, or the processing of fish on vessels engaged solely in this activity, should be included if these activities have their land-base within the territorial boundaries of the participating country. These activities correspond to major divisions 2, 3 and 4 respectively of the International Standard Industrial Classification of All Economic Activities (ISIC). 2

- 16. By definition of the establishment, industrial activity outside the industrial sector as defined above should normally be of very minor importance. Where a significant amount of industrial activity is carried on in non-industrial establishments and these establishments can be readily identified, efforts might be made to isolate and measure their industrial activities, or a special survey might be made of these establishments as a supplement to the main inquiry.
- 17. Household units engaged primarily in industrial activities should be included as part of the industrial sector and brought within the scope of the Programme if their activity involves the production of goods or services for sale or exchange.
- 18. The restriction of the Programme to the industrial sector is not intended to imply that inquiries may not be undertaken at the same time into other sectors of the economy, such as the construction sector or the distributive trades. There are advantages in a combined approach to these inquiries, particularly in the avoidance of overlapping in the enumeration of establishments and in the improved ability to obtain comprehensive estimates of the various kinds of economic activity. Nevertheless, the additional effort is so great and the strain on available resources likely to be so pronounced that a more comprehensive programme of this kind cannot be recommended for general implementation in the same year.

^{2/} International Standard Industrial Classification of All Economic Activities (ISIC) (Statistical Papers, Series M. No. 4, Rev. 2), United Nations publication, Sales No.: E.68.XVII.8.

e, <u>Statistical unit</u>

- 19. The recommended statistical unit for the 1973 Programme is the establishment. This is defined as the "economic unit which engages, under a single ownership or control, that is, under a single legal entity, in one, or predominantly one, kind of economic activity at a single physical location". In practice, since the application of this definition has to be tied to the record-keeping practices of the enterprises involved, it will frequently be necessary to accept the local unit as a first approximation to the recommended concept. Sub-division of the local unit might be considered subsequently on the basis of information provided on the pattern of activities in the unit and on the existence of the supplementary records required.
- 20. Some modifications to this procedure are desirable in the case of units engaged in ancillary activities. These units work primarily or exclusively for a related establishment or a group of related establishments, and produce goods or services which do not become part of the output of these establishments and which are normally provided by units which are an integral part of the establishments. Units of this kind serving a single establishment should be treated as an integral part of the main establishment, irrespective of separate location or of the existence of separate records. If, however, the units are located in areas which are distinguished in the area classification, it will be desirable to gather separate data for the items which are to be classified according to these areas. Central ancillary units, that is, ancillary units serving two or more establishments of a multi-establishment enterprise should, on the other hand, be treated as separate establishments and classified according to the predominant activity of the establishments served.
- Own-account construction units which are of significant size should be treated as independent establishments if separate records are available or a suitable estimates can be made in respect of their operations. They should be classified in construction.

International Recommendations for Industrial Statistics (Statistical Papers, Series M, No. 48), United Nations publication, Sales No.: 68.XVII.10, p. 12.

f. Coverage

- 22. The scope of the inquiries to be undertaken as part of the Programme has already been defined in terms of the kinds of activities to be enumerated and the individual establishments identified with these activities. The coverage of the inquiries relates to the nature of the restrictions placed on the universe of establishments defined in this way, normally for the purpose of trimming the inquiries to manageable proportions. These restrictions may relate to (i) the size of the establishment or (ii) other structural characteristics of the establishment, such as form of ownership, or type of legal or economic organization.
- 23. In principle, for the 1973 Programme, no restrictions should be placed on the coverage of the inquiries either in terms of the size of the establishment or in terms of its other structural characteristics. While this is not to say that a complete enumeration of establishments of all sizes is required, it does mean that the enumeration should be such that satisfactory estimates can be prepared for the universe as a whole. Similarly, it does not imply that the special inquiries prepared as part of the Programme have to be comprehensive inquiries, in the sense that establishments of all kinds have to be included: if government establishments, for example, normally report the required information on an annual basis, the coverage of the special inquiries instituted for the programme can be correspondingly reduced.
- 24. In practice, special inquiries for the Programme are likely to be the rule and the nature of their coverage in terms of establishment size likely to be an important question. It is not possible to give specific advice on this matter since so much depends on the number and size-distribution of the universe of establishments in each country and on the financial and man-power resources that can be allocated for the work. The general objectives of the inquiries should be kept in mind in making these decisions and the available resources applied so as to give the best possible return on the expenditure involved.
- 25. While complete coverage must remain the goal of the inquiries, it can normally be approached only in a series of successive approximations.

It may be useful to define generally-applicable standards for these approximations so that in the case of those countries which do not extend their estimates to the full coverage recommended, the results will still have a measure of international comparability.

- 26. The first approximation proposed is defined in terms of a coverage limited to establishments with five or more persons engaged. This type of coverage is often found in benchmark inquiries in countries at an early stage of statistical development and quite frequently in annual inquiries in the more advanced nations. It is generally satisfactory as a basis for estimating production, consumption and capital formation and for industrial commodity flows in general.
- 27. The second approximation proposed is defined in terms of a coverage extending to all establishments with at least one employee. This is a broad coverage which is adequate for the estimation of virtually all characteristics of industrial activity and structure, including the dimensions of employment and the earnings of hired labour. The part of the universe omitted by such an approximation, that is, establishments operated by the proprietors only, or by the proprietors with the help of unpaid family workers, will likely be of minor importance. These establishments will generally be household establishments and may be enumerated more easily within the framework of a census of population.
- 28. The three levels of coverage proposed will normally be associated with differences in the reliability and level of detail in the information compiled, with the maximum reliability and detail in the information compiled for all establishments with five or more persons engaged. It is particularly important that all countries which proceed beyond first-level coverage should compile the standard tables proposed for the preceding level or levels. This will ensure comparability of the reported information in terms of content and coverage and to some extent in terms of reliability also.

g. Classification by industry

29. Uniformity in the industrial classification employed and in the application of classification procedures is essential for internationally-comparable

results. In those countries now following United Nations standards in this matter for national purposes, it is recommended that the 1968 version of ISIC 4 should be used and that full detail for the standard items should be shown to the industry group (four-digit) level of the classification. In those countries not now following United Nations standards in their national practice, it is recommended that industry detail in 1870 form should be provided as indicated in the subsequent proposals and that provision should be made for the ad-hoc processing of all items of data in terms of the industry-group level.

h. Time reference

30. The period to which the information compiled on activity should relate is the calendar year 1973. For international comparisons, thus may imply the application of some method of escimation in those cases where information of the kind sought is normally collected and compiled on a fiscal-year basis or in those cases where, for one teason or account, the institution of a benchmark inquiry for the calendar year 1973 is not feasible. The acceptability of financial years other than the calendar year 1973 for establishment reporting should be looked at in the light of the effects of this practice on the relevance and accuracy of the reported information.

i. List of items and priorities

The nature of the items of information which should be enumerated in the 1973 inquiries and the priorities accorded to them should be determined in the first place by national needs and circumstances. For the World Programme, the detail proposed is necessarily more limited than the detail required for national purposes while the priorities are based on a projection of international requirements as well as on a general view of national requirements. The recommended items and the priorities accorded to them for collection as part of the Programme are indicated in Eart III of this document.

j. Tabulation of the results

32. The distinction between the system of tables proposed as part of the

^{4/} Op. cit.

World Programme and the tables required for national purposes should be kept in mind. Apart from differences in the items tabulated and in the priorities accorded to the collection of information on these items, there will normally be important differences in the classification of the items in terms of the structural characteristics of the establishments. One of the most important of these differences will normally be the inclusion in the national tabulations of an extensive cross-classification of the items of data according to the location of the establishments.

k. Publication of results

33. A plan and time-table for the publication of the results of the 1973 inquiries should be an integral part of each national programme. For the World Programme, the reporting requirements are indicated by the list of tables in Part III of this document. It is hoped that all the tables in this list will be transmitted to the United Nations within three years from the completion of the inquiries and that the full results of the World Programme will be published by the United Nations Statistical Office by 1978.

III. CONTENT OF THE PROGRAMME

- The essence of the 1973 Programme is the compilation of indicators on all major aspects of industrial activity, classified in detail according to branch of industry. These basic compilations are supplemented by cross-classifications of the data according to size of establishment and other structural characteristics to show the main features of the structure of each branch and of industry as a whole. Summary tables are added to give perspective to the complete system.
- The content of the Programme is indicated and discussed topic by topic in the Sections which follow. In each case, after a brief introduction, the nature of the items of information to be compiled is given and a recommendation is made of the priority to be accorded in each case to the collection of the related information from the larger and smaller establishments. The items are annotated where it is felt that some additional explanation or guidance is desirable. Finally, the tabulation scheme is indicated.
- 36. The Sections of the Programme are arranged and presented in the following order:
 - Section 0. Summary of activity
 - Section 1. Employment and earnings
 - Section 2. Gross output and its composition
 - Section 3. Nature of intermediate input
 - Section 4. Measures of value added
 - Section 5. Changes in stocks
 - Section 6. Gross fixed capital formation
 - Section 7. Production of individual products
 - Section 8. Consumption of individual materials

SECTION O. SUMMARY OF ACTIVITY

Introduction

The tables in this Section of the Programme are intended to focus attention on the main results of the 1973 inquiries and to establish a framework for the more detailed tables in subsequent Sections. Because of the importance of the items, it is recommended that all participating countries should provide estimates for all three tables, that is, for (1) all industrial establishments engaging five or more persons, (2) all industrial establishments with at least one employee, and (3) all industrial establishments without limitation as to size.

Recommended items

38. The items recommended for inclusion in these summary tables and the references required for their definition are as follows:

| | Item and reference number | Definition |
|------|--|-------------------|
| 0.1 | Number of establishments | IRIS paras. 76-78 |
| 0.2 | Number of proprietors and family workers | Section 1 |
| 0.3 | Number of employees | Section 1 |
| 0.4 | Number of operatives | Section 1 |
| 0.5 | Wages and salaries of employees | Section 1 |
| 0.6 | Wages and salaries of operatives | Section 1 |
| 0.7 | Gross output | Section 2 |
| 0,8 | Intermediate input | Section 3 |
| 0.9 | Value added | Section 4 |
| 0.10 | Changes in stocks | Section 5 |
| 0.11 | Gross fixed capital formation | Section 6 |

Explanatory notes

39. The only item in these tables that does not appear in subsequent Sections is number of establishments. In principle, this item and all other items of information in the tables should relate to establishments active at any time during the calendar year 1973.

Tabulation plan

40. The three tables in this Section correspond to the three main levels of coverage discussed previously. The classification of the items according to branch of industry should be in terms of the major division, division, major group and group levels of the ISIC.

Potentipal indicasor of monstreal activity, classified by branch of incostry, largo establishments T-1-6

| U () C () | Inter. (alme Chrnges f. ec mediste aided in capital impor (ideed);tucis items. | |
|---|--|--|
| | ation | |
| | Inter | |
| | Glors Inter- | |
| VOC | Total (1.ges am | |
| Entic | moder (Tages and | |
| | | |
| · · · · · · · · · · · · · · · · · · · | Pranch Munico 1018 Or of estate number of the construction of the | |
| # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Pandle Option | |

Promipus vice cambbes simplications and with a classified on biench of industry. 1,510,012

Total car at for Totale Out, I

Table O.S. Edicipal photestors of industrial active thandied by Simob of industry. all establishmense

/ powiese as for Table Col

SECTION 1. EMPLOYMENT AND EARNINGS

Introduction

41. This Section of the Programme is concerned primarily with the nature and dimensions of the employment provided by each branch of industry and with the annual earnings of each kind of paid labour. It also provides for the reporting of man-hours worked by operatives as a more precise measure of labour input. Supplements to wages and salaries, a part of total labour remuneration of increasing significance, is included in the Programme as a second priority item for collection from the larger establishments.

Recommended items

42. The following table indicates the items recommended for compilation, their collection priority rating for the larger and the smaller establishments and the paragraph reference for their definition in IRIS.

| <u>Item</u> | and reference number | Prior Larger | ity Smaller | Definition (para.ref.IRIS) |
|-------------|--|-----------------|----------------|----------------------------|
| 1.1 | Number of persons engaged | 1 | 1 | 83-84, 98 |
| | 1.1.1 Working proprietors | 1 | 1 | 85 |
| | 1.1.2 Unpaid family workers | 1 | 1 | 86-88 |
| | 1.1.3 Employees | 1 | 1 | 89-90, 97 |
| | 1.1.3.1 Operatives | 1 | 1 | 91-93 |
| | 1.1.3.2 Other | 1 | 1 | 94 |
| 1.2 | Man-hours worked by operatives | l | 2 | 96 |
| 1.3 | Wages and salaries of employees | 1 | 1 | 99 |
| | 1.3.1 Of operatives | 1 | l | 99 |
| | 1.3.2 Of other employees | 1 | 1 | 99 |
| 1.4 | Supplements to wages and salaries of employees | 2 | | 101 |

Explanatory notes

The treatment of homeworkers may cause problems for international comparisons because of the incomplete recommendations on this subject in IRIS. It is proposed that, for the 1973 Programme, the count of homeworkers and the gross remuneration paid to them should be included only as memorandum items to the tables in this Section. Effectively, this would imply treating homeworkers as independent household establishments working on contract or commission and their gross remuneration as part of the cost of contract and commission work done by others. If complete coverage is attempted, the count of homeworkers should be assigned to the category "working proprietors" and their gross remuneration included (as an approximation) as part of total value added in each industry.

Tabulation plan

- 44. The basic tables in Sections 1-6 should provide estimates relating to all establishments with five or more persons engaged and, where feasible, estimates relating to all establishments with at least one employee. The kind-of-activity classification for these basic tables should be in terms of the industry group (four-digit) level of the ISIC.
- 45. In this Section, the basic tables are Tables 1.1 and 1.1A. Additional detail will normally be required for national purposes in the items in the boxhead, particularly breakdowns of employment and earnings according to sex. In some cases, breakdowns of employment and earnings according to age-group will also be required.
- 46. Supplementary tables in this Section include cross-classifications of the basic items for the larger establishments by size of establishment and by form of organization and ownership.
- 47. A detailed size-classification scheme, based on numbers engaged as the criterion of size, is given in paragraphs 81-82 of IRIS. For the supplementary tables in Sections 1-6, an abbreviated version of the general scheme is preferable. This should be limited to distinguishing between establishments with the following numbers of persons engaged: 5-9, 10-19, 20-49, 50-99, 100-199 and 200 and over.

- In similar fashion, an abbreviated version of the classifications by torm of organization and ownership proposed in paragraphs 72 and 73 of IRIS should be used for a second cross-classification of the basic items. The rangeries recommended are the following:
 - a. Frivately-owned establishments belonging to
 - a.l Corporate enterprises
 - a 2 Unincorporated enterprises
 - a.5 Cooperatives
 - b Publicly-owned establishments belonging to
 - h.l Central government
 - 5.2' State or provincial governments
 - b.3 Local arthorities
- he. To simplify such supplementary tables, it is recommended that the knowled-activity classification should be limited to the division level collect.

Table 1.1 Indicators of employment and earnings, classified by branch of industry, larger establishments

| Branch of industry | earneist van - Er viillitereist de Gregoria de Gregori | Number of | persons | engaged | Man-hours | Wages and salaries | | Supplements to | |
|--------------------|--|-----------------------------|---------------------|-----------------------------------|-----------|----------------------------|-------|---------------------|-------|
| | Total | Working pro- prietors | Family . workers | Employee Total Opera- tives | | worked by operatives | Total | tal Opera- tives | Other |

Table 1.1A Indicators of employment and earnings, classified by branch of industry, establishments with at least one employee

____For boxhead, see Table 1.1_/

Table 1.2 Indicators of employment and earnings, classified by branch of industry and by size of establishment, larger establishments

For boxnead see Table 1.1

Table 1.3 Indicators of employment and earnings, classified by branch of industry and by type of establishment, larger establishments

__ For boxhead see Table 1.1_/

SECTION 2. GROSS OUTPUT AND ITS COMPOSITION

Introduction

50. The tables in this Section relate to the measurement of gross output by branch of industry in terms of the major types of output contributing to the gross receipts of the establishment. The tables also provide for the separate statement of total indirect taxes paid on the goods and services produced and total subsidies received.

Recommended items

51. The items recommended for inclusion in the basic tables of this Section are as follows:

| Item | and reference number | Pric Larger | ority Smaller | Definition (para.ref.IRIS) |
|------|--|----------------|------------------|----------------------------|
| 2.1 | Gross output (excluding net indirect taxes) | 1 | 1 | 151-153 |
| | 2.1.1 Goods produced and indus- trial services rendered | 1 | 1 | 145-146 |
| | 2.1.1.1 Finished products | 1 | 2 | 147-148 |
| | 2.1.1.2 Industrial services | s l | 2 | 150 |
| | 2.1.1.3 Goods shipped as received | 1 | 2 | 149 |
| | 2.1.2 Increase in work in pro- gress | 1 | 2 | 138-139 |
| | 2.1.3 Electricity sold | 1 | 2 | 116 |
| | 2.1.4 Fixed assets produced for own account | 1 | 2 | 120-121 |
| 2.2 | Indirect taxes | 1 | 2 | 119 |
| 2.3 | Subsidies received | 1 | 2 | 119 |
| 2.4 | Non-industrial services rendered | 2 | Pross | 154 |

Explanatory notes

52. The items in the tables in this Section should be in terms of values at current prices (goods and services produced) or in terms of related payments (indirect taxes and subsidies). Valuation of item 2.1 (gross output) should be exclusive of indirect taxes levied on production and inclusive of subsidies received.

Tabulation plan

53. The tabulation plan for this Section is essentially similar to the plan outlined for Section 1. Two tables are proposed for the basic items classified by branch of industry in four-digit ISIC detail, corresponding to the two main levels of coverage recommended. In addition, it is recommended that for the larger establishments, two cross-classifications of the basic items be prepared in terms of size of establishment and form of ownership and organization as indicated for Section 1. The kind-of-activity classification for these supplementary tables should be in terms of ISIC two-digit or division detail.

Table 2.1 Gross output and related items classified by branch of industry, larger establishments

| Branch of industry | Total | indus | | A STATE OF THE PARTY OF THE PAR | rendered | Increase Elec- | | assets | In- direct taxes | Sub- | Non-in- dustrial services |
|--------------------|-------|-------|------|--|-----------------------------|----------------|-----------------|----------------------------|------------------------|----------|---------------------------------|
| | | Total | pro- | Indus- trial ser- vices | Goods shipped as re- ceived | ļ | tricity sold | produced for own use | paid | received | rendered |

Table 2.1A Gross output and related items classified by branch of industry, establishments with at least one employee

For boxhead see Table 2.1

Table 2.2 Gross output and related items classified by branch of industry and by size of establishment, larger establishments

__For boxhead see Table 2.1_/

Table 2.3 Gross output and related items classified by branch of industry and by type of establishment, larger establishments

/ For boxhead see Table 2.1 /

SECTION 3. NATURE OF INTERMEDIATE INPUT

Introduction

54. The tables in this Section deal with the nature of the intermediate input into each branch of industry, that is, the input into the productive process of goods and services, other than the services of the factors of production. Input is classified in terms of materials and supplies, fuels, electricity, and the services of other establishments. Special provision is made for the compilation of estimates of total energy consumed.

Recommended items

55. The following items are recommended for inclusion in the tables in this Section:

| <u>Def</u> i | nition and item number | Prio Larger | city Smaller | Definition (para.ref.IRES) | |
|--------------|---|----------------|-----------------|----------------------------|--|
| 3.1 | Goods consumed and industrial services rendered | 1 | 1 | 104-105 | |
| | 3.1.1 Materials and supplies | 1 | 1 | 107-109 | |
| | 3.1.2 Fuels | 1 | 2 | 110 | |
| | 3.1.3 Contract and commission work | 1 | 2 | 112 | |
| | 3.1.4 Repair and maintenance work | 1 | 2 | 113 | |
| | 3.1.5 Goods shipped as received | 1 | '2 | 11. | |
| 3.2 | Electricity purchased (value and kWh | n) l | 1 | 3 J p | |
| 3.3 | Electricity generated (kWh) | 1 | 1 | 135 | |
| 3.4 | Electricity sold (kWh) | 1 | 2 | 115 | |
| 3.5 | Total energy consumed (k/h) | (not er | numerated) | • | |
| | 3.5.1 Energy equivalent of fuels consumed (k/h) | (not en | numerated) | 132 | |
| | 3.5.2 Electricity consumed (kWh) | (not er | numerated) | 777 | |

Explanatory notes

- 56. The values required in the case of item 3.1 and its components are in terms of the cost of input consumed rather than purchased or delivered to the establishment. The values should be in terms of current market prices, including all taxes.
- 57. The estimates of total energy consumed and of the energy equivalent of fuels consumed should be in terms of kilowatt-hours and should be made at the national level on the basis of the details of the consumption of fuels and electricity provided by the reporting establishments.

Tabulation plan

58. The basic tables for this Section are Tables 3.1 and 3.1A and Tables 3.2 and 3.2A. Supplementary tables should be prepared showing cross-classifications of the two-digit kind-of-activity detail in Table 3.1 by size of establishment and form of ownership and organization. These cross-classifications should follow the scheme indicated in earlier Sections.

Table 3.1 Intermediate input and related items, classified by branch of industry, larger establishments

| | Good | Goods consumed and industrial services rendered | | | | | | | |
|--------------------------|-------|---|-------|------------------------------------|----------------|---------|---------------------------------|--|--|
| Branch of industry | Total | Materials and supplies | Fuels | Contract and commission work | and mainte- | shipped | Electri- city pur- chased | | |

Table 3.1A Intermediate input and related items, classified by branch of industry, establishments with at least one employee

/ For boxhead see Table 3.1 /

Table 3.2 Energy equivalent of fuels and electricity consumed, classified by branch of industry, larger establishments

| Total Energy equivalent of fuels of fuels (kWh) (kWh) | Electricity consumed (kWh) Total Purchased Generated Sold |
|---|--|
|---|--|

Table 3.2A Energy equivalent of fuels and electricity consumed, classified by branch of industry, establishments with at least one employee

For boxhead see Table 3.2

Table 3.3 Intermediate input and related items, classified by branch of industry and size of establishments, larger establishments

For boxhead see Table 3.1

Table 3.4 Intermediate input and related items, classified by branch of industry and type of establishment, larger establishments

For boxhead see Table 3.1

SECTION 4. MEASURES OF VALUE ADDED

Introduction

The tables in this Section are intended to present alternative measures of value added by branch of industry and to show the relationships between these measures. Attention is focussed on "census value added" at market prices and at factor cost and on the national accounting measures of the contribution of each branch of industry to the gross and net domestic product.

Recommended items

50. The following items are recommended for inclusion in the tables of this Section.

| Î, eni | and reference number | Committee of the Commit | ority Smaller | Definition (para.ref.IRIS) |
|----------|--------------------------------------|--|------------------|----------------------------|
| Ή] | Value added at market prices | (not en | umerated) | 155-159 |
| 4,2 | Indirect taxes paid | 1 | 2 | 119 |
| 4.3 | Subsidies received | 1 | 2 | 119 |
| 4.1 | Value added at factor cost | (not en | umerated) | 155-159 |
| 3 5 | Payments for non-industrial services | 2 | <u></u> | 118 |
| <u> </u> | Gross product at factor cost | (not en | umerated) | 158 |
| 5.7 | Consumption of fixed capital | 2 | Algebra | Sans |
| 2 = n 8 | Ner product at factor cost | (not en | umerated) | 158 |

Explanatory notes

61. The items "payments for non-industrial services" and "consumption of fixed tapital" are given second priority for collection from the larger establishments. For both items, it is normally difficult to obtain satisfactory establishment level. For this reason, it may be advisable to

exclude these items from the main inquiry and to base estimates on the results cf <u>ad hoc</u> inquiries conducted on a sample basis with the enterprise as the reporting unit.

Tabulation plan

62. The basic tables of this Section show value added and related items for each branch of industry in four-digit ISIC detail for the two main levels of coverage. These two tables are supplemented in the manner previously described by cross-classifications of the ISIC two-digit detail for the larger establishments by size of establishment and form of organization and ownership.

Table 4.1 Value added and related items, classified by branch of industry, larger establishments

| 1 | and comments. call | THE STREET, ST. LEWIS OF STREET, ST. LEWIS CO., LANSING, ST., LANSING, S | entities to the Attitudence of States and Attitudence of the | and to the assessment | alonapya, galab ashara kamadanna kanadan a madang | | entransportation of the s | | diam'r. |
|---------------------------------------|--------------------|--|--|-----------------------|--|--------------------|---------------------------|---|------------|
| P | Value' | | , | | Payments | | | | |
| Branch | added | Indirect | Sub- | added | for non- | product | tion of | product | - |
| · · · · · · · · · · · · · · · · · · · | at | taxes | sidies | at | indus- | at | fixed | at | 1 |
| industry | market | paid | received | factor | trial | factor | capital | factor | 1 |
| 0-10 | prices, | | | cost | services | cost | *** | cost | Andiguages |
| | المستعدية محمدة | | FROM Whitepage, A Heading Jane | | THE STREET COMMENTS OF THE PARTY OF THE PART | ****************** | | or -thomas, and total and total and the | _ |

Table 4.1A Value added and related items, classified by branch of industry, establishments with at least one employee

For boxhead see Table 4.1 /

Table 4.2 Value added and related items, classified by branch of industry and size of establishment, larger establishments

For boxhead see Table 4.1

Table 4.3 Value added and related items, classified by branch of industry and type of establishment, larger establishments

/ For boxhead see Table 4.1 /

SECTION 5. CHANGES IN STOCKS

Introduction

63. The tables in this Section are designed to present the component elements of the over-all changes in stocks reported in the summary tables of Section O. Estimates should be shown, for each branch of industry, of the value of stocks at the beginning and end of the inquiry period in terms of (i) materials, fuels and supplies, (ii) work-in-progress and (iii) finished products.

Recommended items

64. Estimates should be compiled of the value, at the beginning and end of the inquiry period, of the following items:

| Item | and reference number | Larger | Smaller | Definition (para.ref.IRIS) |
|------|-------------------------------|--------|---------|----------------------------|
| 5.1 | Materials, fuels and supplies | 1 | 2 | 134-137 |
| 5.2 | Work-in-progress | 1 | 600st | 138-139 |
| 5.3 | Finished goods produced | 1 | 2 | 140-142 |

Explanatory notes

65. In principle, inventories of materials, fuels and supplies should be valued at current replacement cost, based on market prices at the reference date. Inventories of finished products should be valued at the prices at which goods have been shipped immediately prior to the reference date, exclusive of indirect taxes payable on these products and inclusive of subsidies receivable.

Tabulation plan

66. The basic tables of this Section should show the value, by branch of industry, of each of the three main categories of stocks at the beginning and end of the inquiry period. Table 5.1 presents this information for the larger establishments and Table 5.1A for all establishments with at least one employee. Cross-classifications by size of establishment and by form of organization and ownership are not included in this Section.

Table 5.1 Value of stocks at beginning and end of inquiry period, classified by branch of industry, larger establishments

| Branch of | Material and su | , | Work-in- | progress | Finished goods | | |
|-----------|---------------------|---|------------------------|----------|---------------------|--|--|
| industry | Beginning of period | | Beginning of period | | Beginning of period | | |

Table 5.1A Value of stocks at beginning and end of inquiry period, classified by branch of industry, establishments with at least one employee

SECTION 6. GROSS FIXED CAPITAL FORMATION

Introduction

67. This Section provides for the reporting of estimates of gross fixed capital formation for each branch of industry, classified according to type of asset. Provision is made for the separate reporting in each case of purchases of new fixed assets and of net purchases (purchases less sales) of used fixed assets.

Recommended items

68. The following items are recommended for inclusion in the tables in this Section:

| Item | and re | ference number | Prio Larger | Smaller | Definition (para.ref.IRIS) |
|------|--------|-------------------------------|----------------|---------|----------------------------|
| 6.1 | Purcha | ses of new fixed assets | 1 | 1 | 120-124 |
| | 6.1.1 | Non-residential buildings | 1 | 2 | 125 |
| | 6.1.2 | Other construction | 1 | 2 | 125 |
| | 6.1.3 | Transport equipment | 1 | 2 | 125 |
| | 6.1.4 | Machinery and other equipment | 1 | 2 | 125 |
| 6.2 | Purcha | ses of used assets (net) | 1 | 1 | 121: |
| | 6.2.1 | Land | 2 | esse. | 5200) |
| | 6.2.2 | Non-residential buildings | 2 | a, us | 125 |
| | 6.2.3 | Other construction | 2 | ena | 125 |
| | 6.2.4 | Transport equipment | 2 | hasar | 125 |
| | 6.2.5 | Machinery and other equipment | 2 | tinut | 125 |

Explanatory notes

69. It should be noted that item 6.1 and related sub-items are defined to include the value of fixed assets constructed on own-account. Valuation should be at the current market prices of comparable assets, delivered to the establishment.

Tabulation plan

70. There are two basic tables in this Section corresponding to the two main types of coverage proposed. These basic tables are supplemented as in previous Sections by cross-classifications of the ISIC division detail for the larger establishments by size of establishment and by form of organization and ownership.

Table 6.1 Gross fixed capital formation and its composition, classified by branch of industry, larger establishments

| menacoron "veneralmentalmental or or and to the out the | THE PERSON NAMED IN | outs. The Lat Industry of the management than | -worder - selections are not | TOTAL TRANSPORTER OF ALL AND | Propositional - no recognitions | un emen, er tur-ur- un t | NAME AND DESCRIPTION OF THE PARTY OF THE PAR | THE PARTY OF THE PARTY OF | STREET SET SET SEE SEE SEE SEE SEE SEE | ACTION SECTIONS. | CONTRACTOR CONTRACTOR | APPROXIMENTS |
|---|---------------------|---|------------------------------|------------------------------|---------------------------------|--------------------------|--|---------------------------|--|-------------------------------|-----------------------|--------------|
| Branch of | Total | | Land | 3 | sidential Ldings | Other construction | | Transport equipment | | Machinery and other equipment | | |
| industry | New | Used (net) | (net) | New | Used (net) | New | Used (net) | New | Used (net) | New . | Used (ńet) | |

Table 6.1A Gross fixed capital formation and its composition, classified by branch of industry, all establishments with at least one employee

/ For boxhead see Table 6.1 /

Table 6.2 Gross fixed capital formation and its composition, classified by branch of industry and by size of establishment, larger establishments

/ For boxhead see Table 6.1 /

Table 6.3 Gross fixed capital formation and its composition, classified by branch of industry and by type of establishment, larger establishments

For boxhead see Table 6.1

SECTION 7. PRODUCTION OF INDIVIDUAL PRODUCTS

Introduction

71. This Section of the Programme is designed for the reporting of information on the total production of individual commodities by industrial establishments, irrespective of the branch of industry in which these establishments are classified.

Recommended items

72. The list of items for which separate data on production should be compiled for international purposes is given in document ST/STAT/45: List of Products and Materials. In that document, a description is given of each commodity and of the unit of measurement which should be used in reporting. For convenience in reference, the list will be arranged in the final version according to (i) ISIC-based codes, (ii) SITC-based codes and (iii) the alphabetical sequence of commodity titles. It is recommended that information on the production of these commodities should be collected in all cases for the larger establishments; the enumeration of production in the smaller establishments should normally be confined to cases where these establishments account for a significant proportion of total production.

Explanatory notes

73. Basic information on the requirements for reporting in this Section will be found in document ST/STAT/45. The main objective is the uniform reporting of quantitative information on the total production of each commodity.

Tabulation plan

74. A single table (Table 7.1) is recommended for this Section, showing estimates of the total production of each commodity, together with estimates in each case of the total quantity and value produced for shipment or sale. For national purposes, some further information will normally be desirable: for example, total production divided into (i) production by establishments classified in the branch of industry of which the commodity is a principal product and (ii) production by other branches of industry.

75. For national purposes, a commodity classification linked with both the national industry classification and the national classification of foreign trade statistics should normally be used in the compilation of commodity production data. Guidance on the development of such a commodity classification will be found in the major national studies on industrial census methods mentioned in the bibliography to these recommendations and also in the studies prepared by the United Nations Statistical Office in the course of developing a generalized commodity classification for national accounting purposes. 1/

Table 7.1 Production of individual commodities, all establishments

| - | CALEGORIAN CALCANA | ARETOGERARIOS ARETOGRAPACIONES AR - ARRESTO DANIELE ESPACIA | enderson where experiences management of acresiment | er-er tale? deleganistres er-eganges con | CONTRACTOR OF TOTAL CONTRACTOR AND | TO DO THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PA |
|----|---------------------------------|---|--|--|--|--|
| Со | | Name of | Unit | Total | Products for shi | ipment or sale |
| | Code | commodity | of | quantity | quantity | The section of the se |
| | | Commodition | measurement | produced | Quantity | Value |
| | SPORTS OF SERVICE AND ASSESSED. | ** SELECTIVE SERVICE CONTRACTOR CONTRACTOR C | PROTECULAR TO STREET, AND AND ADDRESS, TAXABLE PROPERTY. | to the authorized and appropriately and | Service appearance Researcher-various on appearance according | |

^{1/} A comprehensive bibliography will be included in the final version of Part III of these recommendations.

SECTION 8, CONSUMPTION OF INDIVIDUAL MATERIALS

Introduction

76. This Section of the Programme is designed for the reporting of information on the total consumption of individual materials by industrial establishments, irrespective of the branch of industry in which these establishments are classified.

Recommended items

The list of items for which separate data on consumption should be compiled for international purposes is given in document ST/STAT/45: List of Products and Materials. In that document, a description is given of each convodity and of the unit of measurement which should be used in reporting. For convenience in reference, the list will be arranged in the final version according to (i) ISIC-based codes, (ii) SITC-based codes and (iii) the alphabetical sequence of commodity titles. It is recommended that information on the consumption of these materials should be collected in all cases for the larger establishments; the enumeration of consumption in the smaller establishments should be confined to cases where these establishments account for a significant proportion of total consumption.

Explanatory notes

78. Basic information on the requirements for reporting in this Section will be found in document ST/STAT/45. The main objective is the uniform reporting of quantitative information on the total industrial consumption of each commodity.

Tabulation plan

- 79. The basic table recommended for this Section presents estimates of the total industrial consumption of each commodity, together with estimates in each case of the total quantity and value of consumption from deliveries to the establishment.
- 80. For national purposes, a commodity classification linked with both the national industry classification and the national classification of foreign

trade statistics should normally be used in the compilation of commodity consumption data. In view of the interest in the preparation of commodity balances, this classification should also be closely articulated with the classification used on the production side. Guidance on the development of such a commodity classification will be found in the major national studies on industrial census methods mentioned in the bibliography to these recommendations and also in the studies prepared by the United Nations Statistical Office in the course of developing a generalized commodity classification for national accounting purposes. 2

Table 8.1 Consumption of individual materials, all establishments

| C. THE COLUMN TWO IS NOT THE OWNER. | ETEROTEKSTYLKETTYKKI AK "TERMIK KITAKI ALLI KITAKI TIR SERVIKANDIK KITAKI KITAKI KITAKI | AN PLANS, THE THEFTHE PARTY AND ASSESSED AND ASSESSED. | THE SHOULD BE THE THE | PRODUCTION OF BUILDING SERVICE STREETS SERVICES | environmental in the regular particle of the contract of the c |
|--|--|--|-----------------------|--|--|
| | Name of | Unit | Total | Consumption fro | m deliveries |
| Code | material | of | quantity | CONTRACTOR OF THE PROPERTY OF | T. SWILL MADENNING AND AND AND AND ADDRESS OF THE PARTY O |
| 99 | | measurement | consumed | Quantity | -Value |
| OUTSIDE TO SERVICE OF THE PARTY | THE PERSON OF TH | AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. | | THE PARTY OF THE P | |

^{2/} A comprehensive bibliography will be included in the final version of Part III of these recommendations.