

# **National Administrative Department of Statistics**



**Synthesis and National Accounts Division**

**METHODOLOGY OF REGIONAL ACCOUNTS**

**2005 BASE YEAR**

**July 2011**



# METHODOLOGY OF REGIONAL ACCOUNTS 2005 BASE

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PROCESO: STATISTICAL PRODUCTION

SUBPROCESS: REGIONAL ACCOUNTS

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Coordinator of Regional Accounts

APPROVED BY:  
Technical Director of National Accounts



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# METHODOLOGY OF REGIONAL ACCOUNTS 2005 BASE

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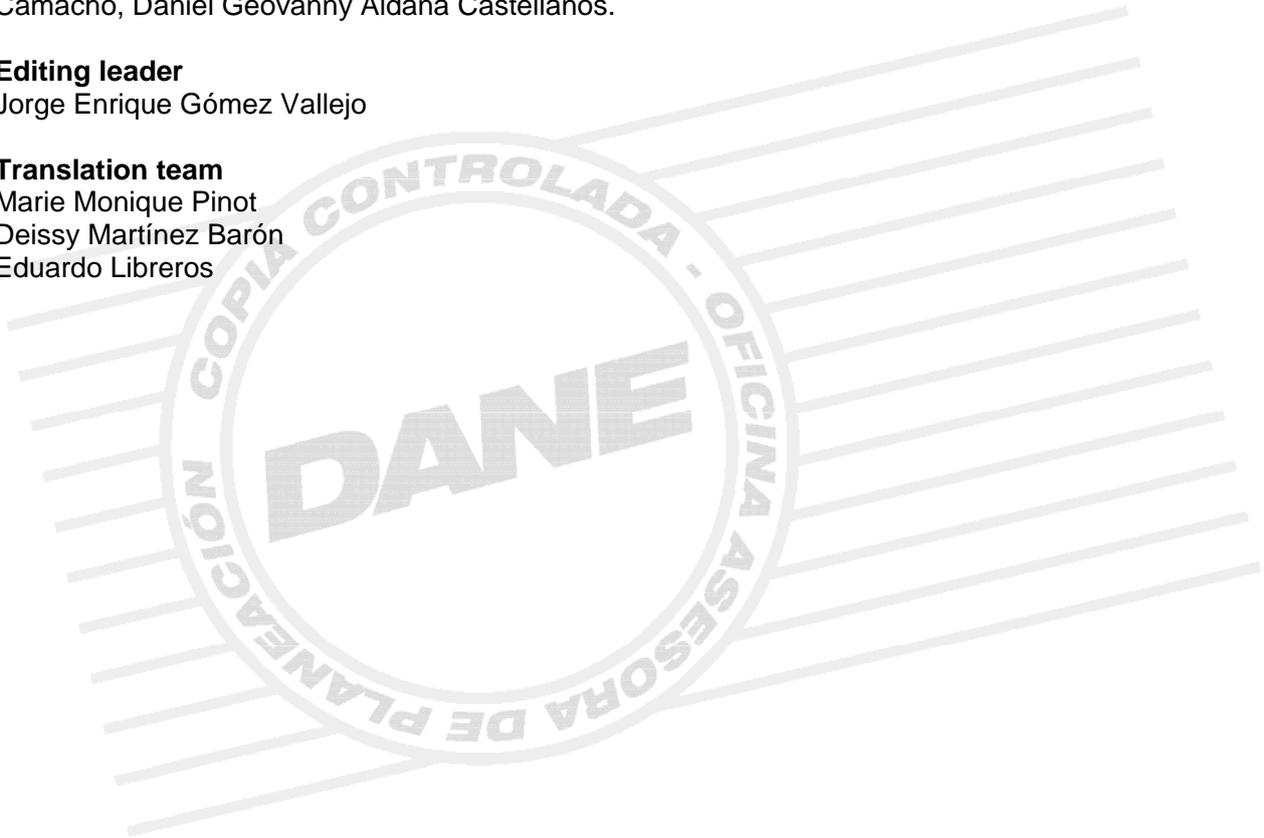
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## ACRONYMS

<b>ACUANAL</b>	Asociación Nacional de Acuicultores de Colombia	National Association of Fish Producers of Colombia
<b>ANALAC</b>	Asociación Nacional de Productores de Leche	National Association of Milk Producers
<b>ANDI</b>	Asociación Nacional de Industriales	National Business Association of Colombia
<b>ASOCAÑA</b>	Asociación de Cultivadores de Caña de Azúcar de Colombia	Sugar Cane Producers Colombian Association
<b>ASOPORCICULTORES</b>	Asociación Colombiana de Porcicultores	Pigfarmers Colombian Association
<b>AVIANCA</b>	Aerovías Nacionales de Colombia	Aerovías Nacionales de Colombia
<b>BANCOLDEX</b>	Banco de Comercio Exterior de Colombia	Foreign Trade Bank of Colombia
<b>BLS</b>	Bureau of Labor Statistics	Bureau of Labor Statistics
<b>BMC</b>	Bolsa Mercantil de Colombia	Colombian Mercantile Exchange
<b>BOU</b>	Balance Oferta-Utilización	Supply and Use Balance
<b>BP</b>	Balanza de Pagos	Balance of Payments
<b>CAR</b>	Corporación Autónoma Regional de la Sabana de Bogotá y de los Valles de Ubaté y Chiquinquirá	Autonomous Regional Corporation of la Sabana de Bogotá, Valle de Ubaté and Chiquinquirá
<b>CCI</b>	Corporación Colombia Internacional	Corporación Colombia Internacional
<b>CEED</b>	Censo de Edificaciones	Building Census
<b>CEGA</b>	Corporación de Estudios Ganaderos y Agrícolas (Universidad de los Andes)	Corporation of Agricultural and Cattle Studies (Andes University)
<b>CENDES</b>	Centro de Proyectos para el Desarrollo - Universidad Javeriana	Center of Research Projects for Development - Javeriana University
<b>CHIP</b>	Consolidador de Hacienda e Información Financiera Pública	Finance and Public Financial Information Consolidation System
<b>CI</b>	Variación de Existencias	Change in Inventories
<b>CNO-GAS</b>	Comité Nacional de Operación y Consumo de Gas Natural	National Committee of Natural Gas Operation and Consumption
<b>COICOP</b>	Classification of Individual Consumption by Purpose	Classification of Individual Consumption by Purpose
<b>COLCIENCIAS</b>	Departamento Administrativo de Ciencia, Tecnología e Innovación	Administrative Unit of Science, Technology and Innovation
<b>CONALGODÓN</b>	Confederación Colombiana del Algodón	Cotton producers Colombian Confederation
<b>CONIF</b>	Corporación Nacional de Investigación y Fomento Forestal	National Corporation of Forestry Research and Promotion
<b>CORPES</b>	Consejos Regionales para la Planeación de la Educación Superior	Regional Councils for Higher Education Planning
<b>COTELCO</b>	Asociación Hotelera y Turística de Colombia	Hotel and Tourism Association of Colombia.
<b>CPC</b>	Clasificación Central de Productos	Central Product Classification
<b>CPI</b>	Índice de Precios al Consumidor	Consumer Price index
<b>CS</b>	Cuentas Satélites	Satellite Accounts
<b>CVAN</b>	Encuesta de Comercio de Vehículos Automotores Nuevos	Survey of New Vehicles Wholesale
<b>DAAC</b>	Departamento Administrativo de la Aeronáutica Civil	Administrative Department of Civil Aeronautics
<b>DANE</b>	Departamento Administrativo Nacional de Estadística	National Administrative Department of Statistics



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<b>DIAN</b>	Dirección de Impuestos y Aduanas Nacionales	National Tax and Customs Bureau
<b>DNP</b>	Departamento Nacional de Planeación	National Planning Department
<b>DSCN</b>	Dirección de Síntesis y Cuentas Nacionales	Synthesis and National Accounts Division
<b>EAC</b>	Encuesta Anual de Comercio	Annual Survey of Commerce
<b>EAM</b>	Encuesta Anual Manufacturera	Annual Survey of Manufacturing
<b>EAS</b>	Empresas Encuesta Anual de Servicios	Service Enterprises Annual Survey
<b>ECH</b>	Encuesta Continua de Hogares	Continuous Household Survey
<b>ECOPETROL</b>	Empresa Colombiana de Petróleos	Colombian Petroleum Company
<b>ECV</b>	Encuesta de Calidad de Vida	Life Quality Survey
<b>EMPUB</b>	Empresas Públicas	Public Enterprises
<b>ENA</b>	Encuesta Nacional Agropecuaria	National Agricultural Survey
<b>ENIG</b>	Encuesta Nacional de Ingresos y Gastos	Incomes and Expenses National Survey
<b>EPS</b>	Entidad Promotora de Salud	Private Corporations in charge of the Administration of Social Security in Health
<b>ER</b>	Tasa de Cambio	Exchange rate
<b>ESAG</b>	Encuesta de Sacrificio de Ganado	Livestock Slaughter Survey
<b>ESE</b>	Empresas Sociales del Estado	Governmental Social Corporations
<b>ETESA</b>	Empresa Territorial para la Salud	Territorial Corporation for Health
<b>EUROSTAT</b>	Comisión de la Comunidad Europea	Statistical Office of the European Union
<b>EVAS</b>	Evaluaciones Agropecuarias por Consenso	Agricultural Valuations by Consensus
<b>FASECOLDA</b>	Federación de Aseguradores Colombianos	Colombian Insurers Federation
<b>FCEG</b>	Gastos de Consumo Final del Gobierno	Final Consumption Expenses of the Government
<b>FCH</b>	Consumo Final de los Hogares	Final Consumption of Households
<b>FEDEARROZ</b>	Federación Nacional de Arroceros	Rice Producers National Federation
<b>FEDECACAO</b>	Federación Nacional de Cacaoteros	Cacao Producers National Federation
<b>FEDEGAN</b>	Federación Colombiana de Ganaderos	National Federation of Cattle Producers
<b>FEDEPALMA</b>	Federación Nacional de Cultivadores de Palma de Aceite	Oil Palm Producers National Federation
<b>FENAVI</b>	Federación Nacional de Avicultores	National Federation of Poultry Producers
<b>FINDETER</b>	Financiera de Desarrollo Territorial S.A.	Financial Corporation of Territorial Development
<b>FISIM</b>	Servicios de Intermediación Financiera Medidos Indirectamente	Financial intermediation services indirectly measured
<b>FOSYGA</b>	Fondo de Solidaridad y Garantía del Sistema General de Seguridad en Salud	Solidarity and Guarantee Fund of the Social Security System in Health Care
<b>GAHM</b>	Encuesta a Grandes Almacenes e Hipermercados y Minoristas	Retail Stores and Hypermarkets Survey
<b>GDP</b>	Producto Interno Bruto	Gross Domestic Product
<b>GEIH</b>	Gran Encuesta Integrada de Hogares	Integrated Household Survey
<b>GFCF</b>	Formación Bruta de Capital Fijo	Gross Fixed Capital Formation
<b>GMF</b>	Gravamen a los Movimientos Financieros	Financial Transactions Tax
<b>Ibope</b>	Instituto de Investigación y Sondeos de Opinión	Research and Opinion Survey Institute
<b>IC</b>	Consumo Intermedio	Intermediate Consumption
<b>ICCP</b>	Índice de Costos de la Construcción Pesada	Heavy Construction Cost Index
<b>ICCV</b>	Índice de Costos de la Construcción de Vivienda	Dwelling Construction Cost Index



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<b>ICFES</b>	Instituto Colombiano para el Fomento de la Educación Superior	Colombian Institute for the Promotion of Higher Education
<b>ICONTEC</b>	Instituto Colombiano de Normas Técnicas	National Standardization Body of Colombia
<b>IDEAM</b>	Instituto de Estudios Ambientales y Meteorológicos	Institute of Environmental and Meteorological Studies
<b>IFI</b>	Instituto de Fomento Industrial	Institute of Industrial Promotion
<b>IIOC</b>	Indicador de Inversión en Obras Civiles	Investment Indicator in Civil Works
<b>IMF</b>	Fondo Monetario Internacional	International Monetary Fund
<b>INCO</b>	Instituto Nacional de Concesiones	National Concessions Institute
<b>INCODER</b>	Instituto Colombiano de Desarrollo Rural	Colombian Institute of Rural Development
<b>INCORA</b>	Instituto Colombiano para la Reforma Agraria	Colombian Institute for Agricultural Reform
<b>INGEOMINAS</b>	Instituto Colombiano de Geología y Minería	Colombian Institute of Geology and Mining
<b>INVIAS</b>	Instituto Nacional de Vías	National Roads Institute
<b>IPS</b>	Instituciones Prestadoras de Salud	Health Care Provider Institutions
<b>ISA</b>	Interconexión Eléctrica S. A.	Interconexión Eléctrica S.A.
<b>ISIC A.C.</b>	Clasificación Industrial Internacional Uniforme Adaptada para Colombia	International Standard Industrial Classification adapted to Colombia
<b>ITI</b>	Indicador Trimestral Integrado	Integrated Quarterly Indicator
<b>KITCO</b>	Comercializador internacional de metales y fuente de información de mercados	International Trader of metals and market information source
<b>MADR</b>	Ministerio de Agricultura y Desarrollo Rural	Ministry of Agriculture and Rural Development
<b>MCF</b>	Millares de Unidades Térmicas Británicas	Thousands of cubic feet
<b>MECI</b>	Modelo Estándar de Control Interno	Standard Model of Internal Control
<b>MMCM</b>	Muestra Mensual de Comercio al por Menor	Monthly Survey of Retail Stores
<b>MMM</b>	Muestra Mensual Manufacturera	Monthly Survey of Manufacturing
<b>MTS</b>	Muestra Trimestral de Servicios	Quarterly Services Survey
<b>NEDD</b>	Normas Especiales para la Divulgación de Datos	Special Guidelines for Data Dissemination
<b>Npc</b>	No clasificado en otra parte	Not previously classified
<b>NPISH</b>	Instituciones sin Fines de Lucro que Sirven a los Hogares	Non-profit Institutions Serving Households
<b>NSS</b>	Sistema Estadístico Nacional	National Statistical System
<b>OCDE</b>	Organización para la Cooperación Económica y el Desarrollo	Organization for Economic Co-operation and Development
<b>OMT</b>	Organización Mundial del Turismo	World Tourism Organization
<b>OPEC</b>	Operaciones Especiales de Comercio Exterior	Special Operations of Foreign Exchange
<b>PAHO</b>	Organización Panamericana de la Salud	Pan American Health Organization
<b>PII</b>	Posición de Inversión Internacional	International Investment Position
<b>PPI</b>	Índice de Precios al Productor	Producer Price Index
<b>PUC</b>	Plan Único de Cuentas	Accounting Standards Framework
<b>QNA</b>	Cuentas Nacionales Trimestrales	Quarterly National Accounts
<b>SDI</b>	Sistema Documental Institucional	System of Institutional Documentation
<b>SEN</b>	Sistema Estadístico Nacional	National Statistical System
<b>SERVIENTREGA</b>	Empresa de logística en recolección, transporte, almacenamiento, empaque y distribución de documentos y mercancías.	Logistics Company for the collection, transport, storage, packaging and distribution of documents and merchandise.
<b>SFC</b>	Superintendencia Financiera de Colombia	Superintendency of Finance



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<b>SGC</b>	Sistema de Gestión de Calidad	Quality Management System
<b>SGP</b>	Sistema General de Participaciones	System of General Participation
<b>SIG</b>	Sistema Integrado de Gestión	Integrated System of Management
<b>SIGI</b>	Sistema Integrado de Gestión Institucional	Integrated System of Institutional Management
<b>SIGOB</b>	Sistema de Información del Gobierno	Government Information System
<b>SIIF</b>	Sistema Integrado de Información Financiera	Integrated System of Financial Information
<b>SIPSA</b>	Sistema de Información de Precios del Sector Agropecuario	Agricultural Sector Prices Information System
<b>SISAC</b>	Sistema de Información del Sector Agropecuario Colombiano	Colombian Information System for the Agricultural Sector
<b>SISBEN</b>	Sistema de Identificación de Potenciales Beneficiarios de Programas Sociales	Identification System of Social Programs Potential Beneficiaries
<b>SISOC</b>	Superintendencia de Sociedades	Superintendency of Companies
<b>SISOL</b>	Superintendencia de Economía Solidaria	Superintendency of Solidarity Economy
<b>SIVAL</b>	Superintendencia de Valores	Superintendency of Securities
<b>SNA</b>	Sistema de Cuentas Nacionales	System of National Accounts
<b>SOAT</b>	Seguro Obligatorio de Accidentes de Tránsito	Traffic Accidents Compulsory Insurance
<b>SSP</b>	Superintendencia de Servicios Públicos Domiciliarios	Superintendency of Public Utilities
<b>SSPD</b>	Superintendencia de Servicios Públicos Domiciliarios	Superintendency of Domiciliary Public Utilities
<b>SUI</b>	Sistema Único de Información	Information System for the Public Utility Sector
<b>TAN</b>	Territorio Aduanero Nacional	National Customs Territory
<b>TELECOM</b>	Empresa Nacional de Telecomunicaciones	National Telecommunications Company
<b>TPM</b>	Tasa Punto Medio	Midpoint Rate
<b>UEPS</b>	Ultimas en Entrar, Primeras en Salir	Last in, first out
<b>UGG</b>	Unidades de Gran Ganado	Large Livestock Units
<b>UN</b>	Organización de las Naciones Unidas	United Nations
<b>UNESCO</b>	Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura	United Nations Educational, Scientific and Cultural Organization
<b>UPC</b>	Unidad de Pago por Capitación	Capitation Payment Unit
<b>UPME</b>	Unidad de Planeación Minero Energética	Unit of Mining-Energy Planning
<b>VA</b>	Valor Agregado	Value Added
<b>VAT</b>	Impuesto al Valor Agregado	Value Added Tax
<b>WB</b>	Banco Mundial	World Bank

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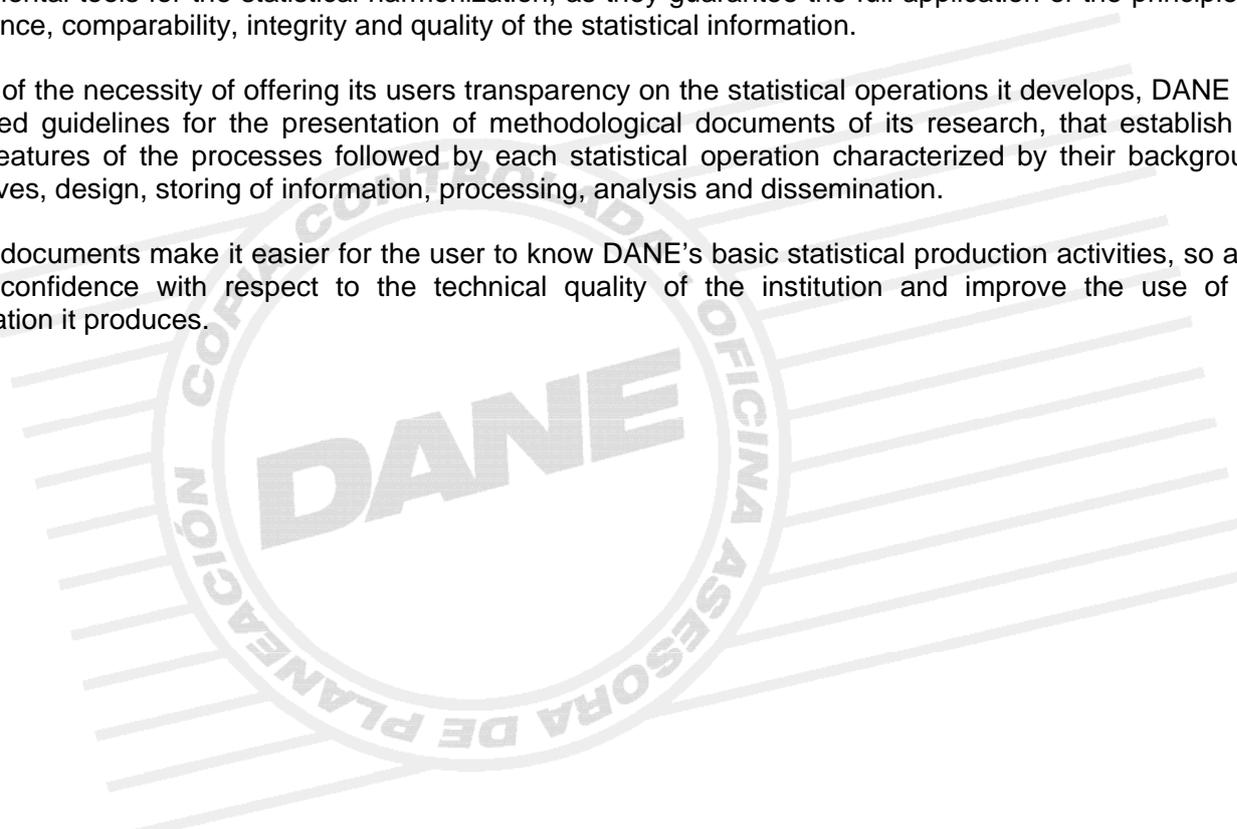
## PRESENTATION

The National Administrative Department of Statistics (DANE for its Colombian acronym), within the framework of the “Planning and Statistical Harmonization” project, works to strengthen the National Statistical System (NSS), so as to consolidate, harmonize and articulate actors, initiatives and products as well as to improve the quality of the statistical information and the efficiency of the services provided, as a response to an always increasing demand for information.

In this context, the standards and metadata of processes, methodologies, classifications and concepts are fundamental tools for the statistical harmonization, as they guarantee the full application of the principles of coherence, comparability, integrity and quality of the statistical information.

Aware of the necessity of offering its users transparency on the statistical operations it develops, DANE has designed guidelines for the presentation of methodological documents of its research, that establish the main features of the processes followed by each statistical operation characterized by their background, objectives, design, storing of information, processing, analysis and dissemination.

These documents make it easier for the user to know DANE’s basic statistical production activities, so as to foster confidence with respect to the technical quality of the institution and improve the use of the information it produces.



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## INTRODUCTION

Regional<sup>1</sup> accounts have been produced and published since 1980, based on the concepts and definitions included in the international definitions and recommendations included in the System of National Accounts (SNA) 1993. They constitute a development or extension of annual national accounts. The first series was published for the 1980-1995<sup>2</sup> period using 1975 as the base year; in 1994 with the adoption of the new 1994 base of national accounts, the second series was published covering the 1990-2005<sup>p</sup> period at 1994 current and constant prices; in 2008, with the implementation of the national accounts 2000 base, a new series of regional accounts was produced, covering the 2000 - 2007<sup>p</sup> period and finally, following the update of the base year to 2005, a new 2000 – 2009<sup>p</sup> series was published.

Regional accounts known as “centralized” are elaborated maintaining coherence with national aggregates, and assigning total and sectoral national Gross Domestic Product (GDP) regionally, through the use of the more suitable and relevant statistical indicators associated with the productive activities of the departments of the country.

The regional accounts are conceived as a simplifying tool, because they are not a replica of the national system of accounts; as the national accounts, they approach the aspects related to the analysis of production and of the generation of value added by activity at current and constant prices; their objective is to provide, under a coherent accounting framework, the quantified image of the regional economy by providing synthetic and other available information, with which it is possible to measure its structure and importance and thus to plan its development.

It is not possible to assume neither an economic policy nor a process of planning and regional development without information that enables determining objectives, relate them to the national plan and assess the results.

The present document describes the methodological aspects applied by DANE in the calculation of regional aggregates by products and activities, in order to establish a structure of distribution of national aggregates according to departments. This presentation is divided into five chapters: the first chapter contains the conceptual and statistical design; the second chapter refers to the stages for the compilation of regional accounts; in the third chapter, the methodology of calculation applied to production and value added is described for each main activity; in chapter four, the methodological changes of regional accounts from the 2000 to the 2005 base are described; and finally, chapter five includes some examples for the construction of indicators.

<sup>1</sup>The terms regional and departmental are used without any difference within the document.

<sup>2</sup>p stands for provisional data

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## 1. DESIGN

### 1. 1. CONCEPTUAL DESIGN

#### 1. 1. 1 Justification

As a result of the development of the decentralization and reorganization processes of the State and the consequent extension of their responsibilities, the local authorities expressed their need for statistical and planning tools to facilitate the fulfillment of the commitments derived from their new legal status as well as the decision-making process, the management of the regional development and the monitoring of their economies. As a consequence, it was necessary to take into consideration the needs of statistics and information in order to face these new challenges.

As the economic authorities at national level, which were provided with ample and developed basic statistical and national accounts systems to analyze both the productive structure and the national and regional dynamics, it was necessary to provide territorial units and their planning authorities with similar types of instruments.

The urgency to structure statistical research reflecting, through its coverage and representativeness, not only national but also regional production prevailed. In fact, the need is increasing to have a system of statistical and economic synthesis which allows diagnosing, proposing and implementing policies and development plans, as well as, monitoring their effect in the short and medium term.

#### 1. 1. 2. Background of the compilation of regional accounts in Colombia.

At the end of the Eighties, DANE designed and executed a project of regional macroeconomic quantification, based on the existing international recommendations and globally consistent with national aggregates. The accounts called "centralized" were then developed, which consisted of a regional breakdown of the total and sectoral national GDP through the most suitable and relevant statistical indicators associated with the productive activities to be distributed. It was conceived as a simplifying, though useful tool. It was not a complete replica of the complex system of national accounts and just encompassed the aspects related to regional production and generation of value added. From this perspective, national GDP was distributed regionally at current and constant 1975prices.

The "regional" term does not point to the traditional connotation of natural region characterized by homogeneity in terms of the economic, cultural and ecological aspects, among others, that distinguish the geographic spaces. The word is used to designate the space corresponding to the political-administrative division of the country, so that regional accounts refer strictly to accounts by department.

In the compilation of the regional accounts, DANE has identified the existence of difficulties and limitations. It is not always straightforward to determine the economic boundaries within which the economic operations take place, since they can simultaneously have different regional spatial references, present difficulties in the precision of the residence of the economic agents involved, or require the regionalization of activities which by nature refer to different regional economic environments (as it is the case of transoceanic water and air transportation, among others).

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As the statistical indicators used for the regionalization of the GDP hardly distinguish the technical-economic particularities of the regional production, two hypotheses have to be used, which somehow constrain the interpretation of the results that are obtained: first, that the relationship between the sectoral intermediate consumptions and productions are equal in all the departments; and second, that the relative prices, as well as their change overtime, for each economic activities are identical in all the regions.

For statistical reasons, the results for the base year 1975 series were presented for twenty-three traditional departments, Santafé de Bogotá D. C and new departments (former Intendancies and commissaries”) and included the following activities:

- Farming, forestry, fishing and fish farming, and hunting
- Mining
- Manufacturing Industry
- Electricity, gas and water
- Construction and public works
- Trade
- Transport and storage
- Communications
- Banking, insurance and business services
- Rentals of dwellings
- Personal Services
- Government Services
- Domestic Services

In 1998, as a result of the rebasing of the system of national accounts (1994), DANE also established a new series of regional accounts, coherent with the concepts, definitions, classifications and aggregates adopted at the national level in line with the United Nations recommendations included in SNA 93; the series covered the 1990 - 2005 period, at 1994 current and constant prices with results for a greater number of economic activities (thirty-four) and for thirty-two departments along with Bogotá, D. C., based on the most recent statistical developments at that time.

In 2008, as a result of the change of the base year of the national accounts to year 2000, the associated series of regional accounts covered the 2000 – 2007<sup>p</sup> period, and important methodological changes were introduced; additionally, new information was available that was used to update the indicators that allowed adjusting the distribution structures by department with the consequent improvement in the quality of the regional accounts.

Currently, regional accounts are being calculated using 2005 as the base year. Their first results were presented at the end of 2010 and the 2000 – 2009<sup>p</sup> series was published, which considered new developments in basic sectoral statistics and censuses.

**Table 1. Summary of the presentation of base years of regional accounts, by coverage, according to base years Base years 1975, 1994, 2000 and 2005**

Base years	Coverage			
	Period	Regions of the country	Number of activities	Number of products

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1975	1980-1996 p	23 departments, Santafé de Bogotá D.C.; other administrative territories	13	192
1994	1990-2005 p	32 departments and Bogotá, D. C.	34	461
2000	2000-2007 p	32 departments and Bogotá, D. C.	33	405
2005	2000-2009 p	32 departments and Bogotá, D. C.	35	369

Source: DANE, DSCN

### 1. 1. 3. Objectives.

- **General Objective.** The general objective of regional accounts is to present the structure and economic behavior of the different sections of the country and provide elements of analysis for regional planning and economic development.
- **Specific Objectives**
  - To calculate Gross Domestic Product (GDP) by department
  - To calculate the value added by economic activity by department
  - To find percentage shares by activity and totals by department
  - To calculate the regional GDP *per capita*
  - To provide indicators and economic variables to the departments for regional analysis
  - To consolidate regional basic statistics and maintain them updated.

### 1. 1. 4. Reference framework<sup>3</sup>

The specific features of the regional economies lead to the implementation of a more limited system than the one proposed at the national level, according to their conditions and needs. "The compilation of a complete system of regional accounts implies treating each region as a different economic unit. In this context, the transactions with other regions become a class of external transactions" (SNA 1993 paragraph 29. 25).

- **Conceptual Base**

**Definition of the regional territory.** The economic territory of a country is defined "as the relevant geographic area to which the concept of residence of the productive units is applied". For the purpose of regional accounts, the economic territory of a country is divided into a regionalized territory and an extra-regional territory. The first one includes the geographic territory and free trade zones, deposits and factories under customs control in the region, whereas the second one includes those parts of the national economic territory that cannot be directly attributed to a region, i.e.: the airspace and the territorial enclaves, such as embassies, consulates, military bases and scientific bases. **Features of regional economies.** The organization of a regional economy presents particular aspects that need to be considered. When an accounting system is defined, there are differences regarding the degree of openness, the importance of the interregional operations, the operation of the economic agents and also, in the difficulty in locating some activities, among others.

Regional economies present the following features:

<sup>3</sup>Contents of sections 1.1.4 and 1.1.5 are taken from: Cortés Arévalo, M. M. and Pinzón Santos R.E. (2000, June). *BASES DE CONTABILIDAD NACIONAL según el SCN 1993*. Bogotá D.C., Colombia: DANE, of the TEMAS collection

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- They are open economies;
  - There is no control on the flow of trade between the regions nor any statistical registries of such flows though, globally, interregional trade is relatively more important than trade with the rest of the world;
  - There are some national institutions that decide on behalf of all the regions;
  - Some corporations are located in a region, but it is not the case with respect to their factors of production;
  - Some corporations have establishments in several regions but there is no obligation for them to set up financial statements for each of them.
- **Regional institutional units.** There are three types of institutional units in the regional accounts:
- **Regional units:** units whose center of interest is located in a region and the majority of their operations occur in the same place. This type includes households, state and local government units, part of the social insurance system and many Non-Profit Institutions Serving Households (NPISH). In general, these units are comprised of a single establishment, located in a single region, thus there is no conceptual difficulty to set up their accounts within a regional analysis perspective.
  - **Multi-regional units:** units whose center of interest is located in more than one region, but that do not refer to the country as a whole; these units comprise several local establishments in more than one region. In this case, the production activities can be assigned regionally, whereas those related to the direction and management functions are concentrated in the headquarters where decisions regarding the whole unit are made: profit distribution, income tax payments, credit requests, interest payments and decisions concerning the extension and creation of new jobs. In this latter case, the allocation of the corporation's general activities at a regional level is a challenge.
  - **National units:** units whose activities are not located regionally. This type includes central government units, whose decisions affect the entire country or more than one region at a time. The basic characteristic of the units included in this group is the development of operations with important regional implications, some of them of a general character, without any geographic perspective, and others with a local perspective, such as investment, payments of wages, provision of education and health services, and transfers to territorial institutions. The units dedicated to the provision of transportation services, electric power, communications, insurance and financial services, etc. are also included. Although the corporation is legally located in a region, it is not the case with respect to its production factors: manpower, transportation equipment; these factors generally move within or serve several regions, making the measurement of the operations by regions difficult.
- **Productive activities within a regional perspective.** From the regional perspective, there are two classes of productive activities:
- **Activities located in a unique region:** these activities are developed completely within a region, as well as the production process including manpower, assets, and the goods and services that result from the productive process. Among these activities are agriculture, industry, trade and some services.
  - **Activities not easily locatable to a region:** These activities are performed by units not easily assignable to a region, or those that put in relationship agents from different regions or units of a national type, whose center of interest has not been geographically located and, therefore, their

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regional allocation is problematic. These are related to activities developed by central government, telecommunication activities, financial services, insurance activities and interregional transportation; for these activities it is necessary to establish special conventions in order to compile regional accounts.

- **System of regional accounts.** The differences between a national and a regional economy establish the need to define a particular type of system of accounts for regions that takes into consideration their features and emphasizes those aspects that are important for these economies.

The system of regional accounts has to be defined from particular conditions for the regions, such as:

- Regional location of productive units
  - Existence of central entities whose decisions affect regional entities
  - Importance of interregional operations
  - Operation of institutional units whose center of interest is located in more than one region
  - Economic activities not easy to locate geographically
  - Centralized accounting organization of the corporations
  - Features of the units that conduct their operations in a single region
- **Accounts by activity: production and generation of income accounts.** The system of regional accounts focuses on recording production operations. These operations are included in the region where the production process, the payment of wages and taxes on production take place and the operating surplus is generated.

For most economic activities, these accounts can be established regionally without major conceptual difficulties. They are essential in a system of regional accounts. Their objective is to describe the production process and show how each region contributes to the creation and distribution of value added. In the same way, these accounts lead to the calculation of production, as well as value added, its composition and the description of the relationships between production and the goods and services required to achieve such production.

The unit of analysis is the establishment, even though it is part of an enterprise whose headquarters or management is located in another region; it is an integral part of the productive structure of the region in which it is located and for which the following information is available:

- Production
- Inputs required for this production
- Remuneration of the factors of production
- Number of employees
- Fixed assets linked to the process

The method of compilation of these accounts depends on the possibility of accessing information by type of activity according to location. Accordingly, there are different situations requiring compilation methodologies specific to each individual case:

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- a) The most favorable situation is when activities are totally located within a specific region. It includes agricultural, industrial, mining activities and certain service activities. These types of accounts can be elaborated from surveys and other research of a statistical or administrative nature, in which the observation unit is the establishment. In this way, features of the regional economies are reflected in a more precise manner, and they can provide an estimated national total, as a sum of partial values. In addition, this method allows establishing valid relationships between variables, preserving the one prevailing in each department, for example, between production and intermediate consumption.
- b) Activities that cannot always be located in a specific region or that can hardly be assigned to a unique region. These activities are performed by national entities that affect all or more than one region, for instance, collective services provided by the central public administration, defense, public order, general administration or activities performed by corporations providing transportation, communication, financial, insurance services, etc. In these activities, the accounts are elaborated based on an indirect method that consists of distributing the national total obtained from national accounts using regional indicators. Some possible indicators are the volume of operations, employment or average wages paid in the regions.
- **Accounts of institutional sectors.** The existence of institutional units that operate in different regions, and lack financial statements at this level, makes it difficult to compile a complete system of accounts for the institutional sectors. It is possible to construct partial accounts for some sectors and complete accounts for others; in the former case, by means of the adoption of conventions different from those used at national level. If an institutional unit, for example a corporation, comprises a single establishment, which, beyond being the production center is also the unit that handles in integral form all the operations of the corporation, then, the operations are circumscribed to a single region and, for this reason, they can be assigned totally to the region where it operates. The same does not occur in the case of corporations that have more than one establishment or the units of central government.
  - **Accounts of the central government.** In the central government the operations are not always made within a geographical perspective. In this instance two alternatives for recording their operations should be considered: to distribute them by regions or to create "a kind of national sector, not allocated as such between the regions or constituting an extra region" (SNA 1993, paragraph 19.93).  
  
In the first case, the national total can be distributed using indicators, such as the payment of wages in the regions or investments; in the second, only a part of the activity of central government is distributed and what remains stays as a total to which the operations conducted by agents residing outside the geographic territory are added, which are not assigned regionally (such as the expenses of the embassies and other operations of these entities abroad).
  - **Accounts of state and local governments.** The sector of the state and local government includes the institutional units whose action is limited to a region. From the conceptual and basic information point of view, this sector is the most suitable one to elaborate regional accounts; the units that are included have a scope that is limited to a region and the sources of information with which they are constructed are the same as those used for accounts at national level. Thus, a perfect coherence is guaranteed between both systems of accounts and it is possible to obtain a national total by sum of the regional data. Additionally, it should be observed that since all operations are conducted in a single region, it is possible to construct for this sector similar accounts as those elaborated at the national level.

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- **Account of households.** The household sector corresponding to a region includes all resident households, that is, all households that are considered as having their main center of economic interest in the region and are established there. Since there is a unique region in which the units of this sector are located, it is possible, without any conceptual limitations, to build their accounts and assign them where the resident households are registered. This rule supposes that a household conducts most of its operations in the region of which it is a resident. For each operation, it is necessary to add the incomes obtained by resident households in other regions and to deduct the payments to non-residents. These operations are important in the regional context, for example, the incomes perceived by seasonal workers, such as coffee and cotton pickers and, generally, the incomes of employees who work in a region different from the one of residence and the incomes of household, owners of agricultural unincorporated enterprises living in a different region.

The compilation of the regional accounts of households cannot be completely based on direct information. The method adopted by some countries is to regionalize the national accounts from indicators; this is done separately for each one of the operations. In doing so, they resort to information related to: wages paid by regions, interests, social insurance benefits, and social insurance contributions or by means of relationships derived from household budget surveys and other surveys to households. In the operations for which there is no specific indicator, the distribution is based on demographic data.

Finally, there are operations that appear in the national accounts corresponding to households that cannot be assigned territorially; this is the case of transactions made by households in the rest of the world, which can be included in the national sector not assigned by regions.

- **Accounts of non-financial corporations.** The units included in this sector are of two kinds. First, those made of one or more establishments located in the same department. In this case, the same accounts as those at national level are elaborated without any difficulty. Second, there are corporations with establishments located in several regions, for which two alternatives can be considered: first, to assign the production and generation of income account to the regions where establishments are located, and the other accounts to the place where the management is located; this solution implies assigning to a single region the operations of the corporation, except for those related to production; the second alternative is based on the case of the accounts of the central government, and consists of assigning its total operations regionally on the basis of indicators.
- **Record of interregional operations.** Complementary to the regional accounts, it is important to record interregional operations, a process that requires the implementation of special systems of information. It is then possible to analyze interregional flows of merchandise. "The analysis of flows of goods has an important descriptive value. The data on the movements of goods, both within the country and outward provide the information that is required in order to analyze the important and strategic connections between regions"<sup>4</sup>. It is possible to compile commodity flow balances or supply and use tables by products or groups of products.
- **Classes of regional accounts.** Generally, two classes of regional accounts are produced: centralized and decentralized ones. Both systems have different objectives, address, in principle, to different classes of users, and present their own features. They have in common the conceptual and methodological framework of the national accounts.

<sup>4</sup>ISARD, Walter (1971). MÉTODO DE ANÁLISIS REGIONAL. Una introducción a la ciencia regional. Ediciones Ariel.

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- Centralized Accounts.** The centralized accounts are built for all the regions by a single agency. Their purpose is to describe the economic activity of the regions, enabling comparisons among them and with the national total and to establish relative levels of development. Also, they unable to present the regional economies classified by order of importance both in level as well as in change overtime. Meeting this objective implies to define a standard set of accounts and to cover all the regions using the same methodology.

The centralized accounts are useful for agencies of the national and local level, because they provide information on the structure of the regional economies, distribution of the production and main aggregates by activity. They provide criteria to distribute fiscal resources and to make regional studies. The method used in the centralized accounts is based, for an important part of the accounts, on the distribution of the national totals by department, by means of indicators.

For the national accountants the space dimension is an additional classification to those of institutional sectors and activities they usually use.

- Decentralized Accounts.** The decentralized accounts are constructed by the departments or agencies of territorial nature. Their purpose is to describe the regions as completely and close to reality as possible. The fulfillment of this objective implies that they adapt to the features of each region, reflecting the most important activities, the technological development, the regional input-output relationships and the changes in relative prices. Its compilation is under the responsibility of the regions themselves, and thus does not necessarily imply coordination at the national level. Decentralized accounts might be compiled at all administrative level: the region, the department and the municipality.

The method of the decentralized accounts is based on the direct compilation of the accounts of each region by local teams. They are based on national statistics in their regional or municipal dimension or directly on information generated in the regions themselves. The knowledge about the region enables focusing efforts in the measurement of the important phenomena, analyzing the quality of the basic information and making adjustments and, if necessary, when the information is insufficient, making estimations from appreciations of a qualitative nature.

These accounts arise frequently as a response to a concern of the regions that consider that, in the centralized accounts, their economies are not well characterized, which prevents them from designing models and applying them in accordance with the specificities of their economy.

The decentralized accounts use different methodologies and sources of information:

- Research of a national character that are representative at the regional level.
- Special research made by the departments themselves. Frequently, the regions implement surveys to follow the key sectors of their economy: for some it is mining, for others the textile industry, the sugar industry, coffee growing, tourism, fishing and fish farming, petroleum, etc.

From the accounting point of view, it is possible to say that there are two types of decentralized accounts: those that adopt the same scheme for all the departments, and those that respond to specific concerns, establishing different accounting frameworks and including even, in some cases, the construction of supply and use matrices.

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- **Importance of both systems of accounts.** Both centralized and decentralized systems fulfill their own objectives and are directed, in principle, to different classes of users. Each presents strengths and limitations.

The compilation of centralized accounts reduces costs. Indeed, a single agency makes the estimations for all the departments, which enable comparisons among them and make it possible to refer them to the national total as reported in the national accounts. They present limitations for those who design the economic policy and elaborate the regional development, because frequently they do not recognize themselves totally in this representation. When elaborating the accounts for all the departments, with the same methodology and accounting framework, it is not always possible, for the departments, to identify their principal activities in all their complexity, since they must be put under a uniform classification.

From the point of view of quality, the estimations of the centralized accounts depend on the basic information and the indicators that are used. Frequently representative national sample surveys for the national level are used but they are not always representative for all regions. In Colombia, the source of information to establish the national and regional accounts of manufacture is the Annual Manufacturing Survey (EAM). For the departments, where the manufacturing industries employing less than 10 persons are important, the survey (based on establishments with 10 employees or more) does not lead to valid results. Generally, the errors in the estimations increase when moving from the national level to the regional one.

The decentralized accounts offer the possibility of making a set of accounts suitable to the needs of each region; supply and use tables can be constructed, breakdowns of products and activities can be adapted to their economy, statistical research can be developed with which it is possible to stress and to characterize the activities that are important in each department and their technological structures.

In spite of the coordination that can be established with respect to the compilation of the decentralized accounts of all the departments, adding up partial regional values, it is difficult to obtain, , the total registered in the national accounts in all the activities. For the above reason, these accounts do not allow relating the respective results of a department and the national total or with the other departments.

### 1. 1. 5. Users of the regional accounts.

The users of the regional accounts are the following:

- The entities at the national level that direct or indirectly intervene in the departments and municipalities
- The National Planning Department (DNP)
- The Ministries
- The territorial and sectoral planning agencies of the departments
- The international agencies.
- The business world
- The academia and research institutions.

Of these users, two groups can be distinguished: those concerned about the study of the regions as a whole and those interested in each region separately. The first group is interested in monitoring and making the follow-up and evaluation of the decentralization processes, the degree of response of the regions to national policies, so as to assure the congruence of the national and regional plans, and to identify the differences in

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the rates of economic growth and social development. For the second group, the concerns are focused in a specific region, though without losing the general perspective. The territorial agencies are interested in knowing the specific features of their economy by comparing it with those of other regions, and in establishing the structure of the productive infrastructure, its technological level and development, degree of dependency with respect to other regions and their importance in the national economy.

Within the first group, the national agencies that somehow act in the regions can be mentioned. Their interest is the harmonic development of the country; they try to favor the less advanced regions and to assist the more dynamic ones in extending their operational range. For this purpose, they need to have a panoramic view that enables establishing its degree of relative development. It includes the entities that have under their responsibility the national and regional macroeconomic regulation, for which the regional accounts are an important reference point.

As regional economies are described in terms of the structure of their productive system, predominant activities, degree of specialization or diversification and operations of the institutional units, the accounts are an essential tool for the economic agents who elaborate the national, regional and sectoral development plans, make decisions and take measures that affect the departments.

By using these accounts the economic agents are able:

- To assess and monitor social and economic policies carried out by various economic agents, given that the aggregates are synthetic figures that provide a general vision of the departments;
- According to Act 60 of 1993 which stipulates the principles according to which decentralized functions are distributed, the regional GDP indicator is used as a parameter to distribute national resources;
- To provide guidelines to distribute fiscal resources, define investment programs, transfers and subsidies;
- To monitor and measure direct and induced impacts of the decisions taken by national and regional agents;
- To have an essential tool in the construction of regional models seeking to formalize relationships among variables and sectors, and to establish production functions;
- Using the information on the incomes perceived by the State in the regions and the resources transferred to them, to determine the redistributive effects of its intervention;
- As an element of synthesis, they constitute a leading tool of basic statistical information and motivate new developments, in order to conform and design systems of regional statistics. In this sense, and used as a statistical synthetic instrument, they create the necessity of generating complete national statistical projects with appropriate regional breakdown levels;
- From their perspective as a leading function, the accounts contribute to the integration and harmonization within a same framework of information elaborated under various methodologies and which stimulates the generation of statistics under standardized concepts and methodologies, which respond to the idea of an accounting system. Generally, the regional accounts are an important reference framework for the definition of national and regional statistical plans;
- They are an essential tool for the formulation and assessment of national, regional and sectoral development plans;
- To determine the coherence of the goals with the actions, procedures and mechanisms that, have been anticipated for their execution. The decision-making agencies will be able to confront whether the proposed investment and operation goals correspond to their resources;

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- To relate national and regional plans, supported in regional and national accounts, assuring the necessary harmony and coherence among objectives and actions of the Nation and the territorial entities.

### 1. 1. 6. Scope of the research

The regional accounts that DANE produces are centralized. These accounts cover all thirty-two departments of the political-administrative division of the country plus Bogotá, D.C., for all the economic activities as determined in the classifications used in the annual national accounts. Main variables are value added by economic activities, regional GDP, share and changes overtime.

Centralized accounts are useful for national and local agencies, since they provide information on the economic structure of the departments and their change in terms of value added by activity, and provide guidelines for fiscal resources distribution and the carrying out of regional studies.

### 1. 1. 7. Legal and institutional framework

Decree No. 262 of 2004, by means of which the structure of the DANE is modified, considers within its functions those regarding the synthesis of national accounts, as follows:

- To prepare annual, quarterly, regional and satellite accounts, in order to assess national, regional and sectoral economic growth.
- To prepare and adapt to the conditions and features of the country, the methodologies of synthesis and national accounts based on international recommendations.
- To promote the dissemination of the system of synthesis and national accounts, as well as training for both producers and users of macroeconomic statistics.

### 1. 1. 8. International recommendations.

Colombian regional accounts are based on the recommendations included in the System of National Accounts, SNA 93 and SNA 2008, systems prepared under the auspices of the Inter-Secretariat Working Group on National Accounts, including the Statistical Office of the European Union (EUROSTAT), the World Bank(WB), the International Monetary Fund (IMF), the Organization for Economic Cooperation and Development (OECD), the United Nations and their commissions for Latin America, Europe, Asia and the Pacific, Africa and Southeast Asia.

## 1. 2. STATISTICAL DESIGN

### 1. 2. 1. Basic Components.

- Type of statistical operation.** The regional accounts are typically a derived statistical operation referring to the total of the economic activity at regional level, according to the political-administrative division of the country. They use the results from national accounts, and by applying economic indicators for a part of the system, and direct information for other productive activities, value added is distributed among departments and activities, based on a top-down method for the estimation of regional aggregates in coherence with national aggregates.

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- **Universe.** In this case, the universe is comprised of the institutional units that carry out an economic activity and which are resident in the national and regional territory.
- **Objective population.** For this study, establishments are the objective population. They are units, which develop a productive activity and conform each one of the activities of which the national and regional economy is made.
- **Coverage and geographic breakdown.** Thirty-two departments that conform the political-administrative division of the country, along with Bogotá, Capital District.
- **Observation unit.** The study emphasizes the institutional unit or enterprise.
- **Analytical unit.** For this research, the industrial establishment is where all the production of the goods and services is made, and supply and use relationships are presented for the corresponding analysis of production.
- **Classifications.** Regional accounts use the same classification as the annual accounts for products as well as for activities. These are based on the homologation of the National Accounts classification with the Colombian adaptation of the Central Products Classification (CPC Ver. 1.0) and of the International Standard Industrial Classification (ISICRev.3).

The only exception refers to the manufacturing industry in which activities are merged in two main groups: ("foods, drinks and tobacco" and "rest of manufacture"), (Refer to Annex A. National Accounts 2005 base product classification).

- **Reference period.** The reference period of regional accounts is a calendar year. Regional accounts are compiled within a one years' time lag.
- **Collecting period.** Due to the proximity to annual accounts, the research is made annually.
- **Variables and indicators.** Production, value added, GDP, shares to national totals, changes and GDP *per capita*.

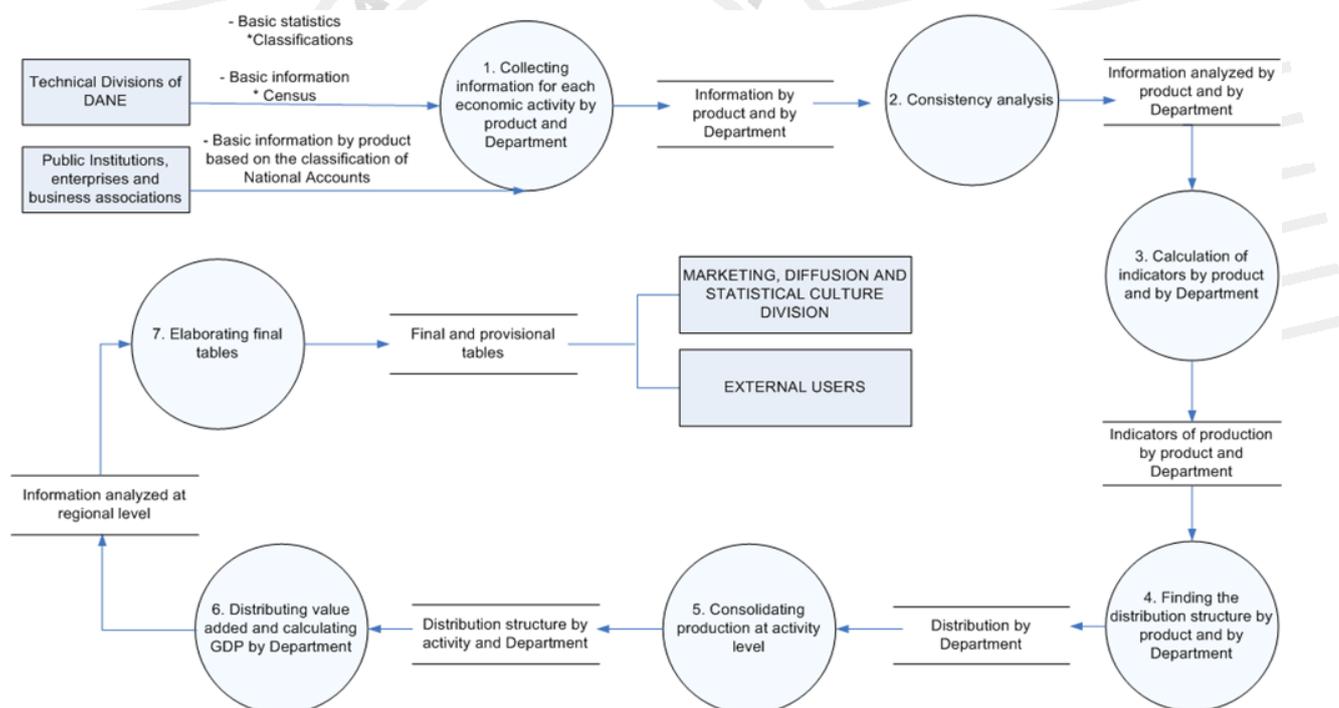
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## 2. STATISTICAL PRODUCTION

### 2. 1. STAGES FOR THE COMPILATION OF REGIONAL ACCOUNTS

In order to compile the regional accounts, DANE uses a centralized or top-down method, that is to say, centralized because they are elaborated by a team of technicians of the Synthesis and National Accounts Division (DSCN), based on the same methodology for every department; and top-down because once the annual national accounts aggregates are calculated, these aggregates are distributed among the departments through all available statistical data and using indicators which enable making regional distributions accurately. Once they are coherent with national aggregates, they become an extension of national accounts, which allows reducing costs, facilitates the comparability among departments while following the change overtime of their economies. Strictly speaking, the accounts are not about production and generation of income accounts of the activities, but a regional distribution of value added. (Refer to Figure 1. Processes of compilation of Regional Accounts CDE-CD-MFU-01)

**Figure 1. Processes of compilation of Regional Accounts, 2005 base**



The stages for the compilation of the regional accounts are the following:

- Data collection;
- Data consistency analysis;
- Calculation of indicators by product and departments;

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- Determination of distribution structure by product and department, according to associated indicators;
- Consolidation of production by activity;
- Distribution of value added and calculation of GDP by department;
- Construction of final tables.

### 2.1.1. Data collection.

Product analysis is assigned to each staff that should collect all the corresponding necessary data for the reference year. The basic data can be derived from internal sources, such as, DANE's research from other divisions or external sources, such as business associations, ministries, superintendencies and relevant public or private corporations.

There are three types of data:

- **Continuous statistics.** These are produced regularly on a yearly basis and they have regional representativeness; for example, the agricultural statistics within the Agricultural National Survey (ENA) provided by the Ministry of Agriculture and Rural Development (MADR), the Annual Manufacturing Survey (EAM) (from DANE), mining statistics compiled by the Unit of Mining-Energy Planning (UPME) of the Ministry of Mining and Energy, and financial statements of public utility companies, among others.
- **Non-continuous statistics.** These result from specific researches at a specific moment in time. It is the case of surveys of households, whose economic behavior can be used to measure regional productions, for example, population and housing censuses.
- **Indicators.** They make up most of the information. They are used to quantify the respective regional production for each one of the products according to the classification, as well as those products that are not part of a specific production but are related to some particular economic behavior. For example, vehicle fleet is used as the basis for the distribution of the production of motor vehicles repair services; the square meters built or licensed are used for the regionalization of sand, stone and other mining products for construction, among others. The request of data is made to producers through various means: e-mail, publication revision, by telephone, fax and mail.

### 2. 1. 2. Detail level for data collection

For their calculations, regional accounts use in general, the most disaggregated level of the classification, 6 digits of national accounts, by product.

In order to determine the structure of regional production by product, two classes of classifications are used: that of products and that of activities. The product classification is organized in three levels: Class, Group and Division; while activity classification refers to a production process, and is only organized at the level of Division.

Below there is an example of how the product classification is organized:

Division	02	Other agricultural products
Group	0201	Cereals
Classes	020101	Wheat and meslin

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020102	Corn
020103	Rice paddy
020104	Barley
020199	Sorghum grains

Regional accounts in the 2005 base refer to 369 products as is the case of national accounts.

### 2.1.3. Analysis of consistency of the information.

To analyze the data they have collected, each staff reconciles and homologates the data coming from different sources, insuring that these are consistent with the historical levels for each department. The information must be continuous with respect to regularity, level, unit of measurement and, reliable in relation to actual product behavior, in order to find explanations that justify their structural dynamics in each department.

### 2.1.4. Calculation of indicators by product and department

In the process of structuring regional accounts, some sources provide directly the distribution indicator of regional production for the product under study. This is obviously the most favorable situation, for example: the agricultural statistics provide the tons produced of each agricultural product in each one of the departments, but in other cases it is necessary to make a series of calculations to construct an indicator that enables distributing the production. Once final indicators are obtained, they are validated to guarantee total coherence with historical series and explanations are sought to justify any abnormal dynamics.

### 2.1.5. Determination of the distribution structure by product and department.

The purpose of regional accounts is to construct a regional distribution structure for each of the products included in the classification, even when, in the cases of absence of statistics for some of them or when lacking the required geographic coverage, it is necessary to use direct and indirect indicators which allow finding the composition of regional production.

The indicators calculated in the previous stage allow determining the percentage distribution of production for each department according to its productive orientation and its economic development.

Production levels of annual national accounts are applied to the structures found by product, for the same products, in commodity balances at current and constant prices, which allows assigning production levels for each one of the departments consistent with aggregates of the annual accounts. These structures are presented in monetary terms, which is the unit of account used in national accounts.

### 2.1.6. Consolidation of production by activity.

Once distribution structures are found at both current and previous year's constant prices by product, the production of products is assigned by activity, using the production matrices of the national accounts. This distribution of production by activity becomes the main focus of the work, because quality depends on results and coherence with the reality of regional economic s;in addition, it allows relating behaviors with other variables that are closely linked with production such as value added, compensation of employees, etc.

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### 2.1.7. Calculation and distribution of value added (VA) and of Gross Domestic Product (GDP) by department.

Once production structures of activity by department are defined, the value added that is calculated in the annual accounts is distributed, that is, production and value added corresponding to an activity are both assigned among departments with the same structure, as neither specific input-output relationships, nor specific evolutions of relative prices are established by department, which would otherwise mean to construct decentralized accounts requiring much more information to be collected and much higher costs associated with this research. This procedure is a simplified though very useful technique that provides a good representation of the structure, shares and evolution of regional economies.

Once the value added of the activities are assigned by department, taxes less subsidies on products are added by department, according to a structure based on the size of each economy, in order to calculate regional GDP, from the following formula:

$$GDP = \Sigma VA + \text{taxes less subsidies on products}$$

This corresponds to the final part of the process. Regional contribution to the economy of the country is calculated in terms of value added by activity and GDP. The relative importance of each department, its share within the set of the regional economies, its actual growth, can also be calculated; this allows observing their change overtime, and provides national and territorial entities with tools for policy formulation and economic planning.

Regional accounts at 2005 constant prices by chaining must be calculated from the results at current prices and previous year's constant prices, incorporating international recommendations with respect to the chaining method, which differs substantially from the method used in the previous bases. This method was adopted because of its advantages in keeping relevant the current economic structures. One of the features of this method is its "non-additivity", and any aggregation or consolidation at 2005 constant prices must be made with the same methodology of calculation (i.e., through the chaining of individual year to year indices).

These calculations also include an analysis of consistency by department and with the overall economy, in order to be able to observe the historical macroeconomic coherence in each of them, and to verify if the changes and shares are within the expected brackets and do not present atypical jumps that could not be justified, taking as a reference the development of the total economy by activity.

Another indicator is the regional *per capita* GDP, both at current and constant prices by chaining, using for such effect the projections of regional population of DANE's Census and Demography Division. This indicator is used to observe the average economic growth by inhabitant, and is calculated using the following formula:

$$\text{Per capita GDP} = \text{regional GDP} / \text{Total population of the region}$$

### 2.1.8. Construction of final tables.

In this stage of the compilation process, final tables are constructed, using MS Excel spreadsheets. These tables are approximately 360. These tables contain information about:

- Total GDP and *per capita* GDP

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- GDP by department
- GDP by activity

For consultation, for the new 2005 base, a regionally geographically referenced dynamic tool has been created, which enables direct access to the data of any department. Additionally, historical series are presented in order to have a complete view of the results.



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### 3. METHODOLOGIES OF ESTIMATION BY ACTIVITY

This chapter presents the methodology and the sources of information used in the regionalization of the National Accounts.

The data of annual national accounts are the starting point and include: commodity flow balances at the 6-digit product level of national accounts, production matrixes presenting the production of products at the 6-digit product level according to 2-digit level activities, production accounts of activities at the 2-digit level, both at current prices and 2005 constant prices by chaining.

The general methodology followed consists in looking for indicators to distribute the production of products by department. Starting from the production of products by department, and the annual production matrices of the national accounts, it is possible to establish the production of activities by department; applying the same structures of the production accounts of the activities as those established at national level, the value added at regional level is obtained. The sole exception to this procedure occurs in the manufacturing industry, as the Manufacture Annual Survey (EAM) provides information at regional level, for production by both product and activity.

(Refer to Annex B. Table of specifications for the setting up of indicators - Regional accounts)

#### 3. 1. AGRICULTURE, CATTLE FARMING, HUNTING, FORESTRY AND FISHING AND FISH FARMING – 01-05

It includes the exploitation of vegetal and animal natural resources. It includes the activities of agriculture, animal farming, wood exploitation (use), plant harvesting, animal care and the capture of animals from within their natural habitat.

It comprises the following activities of the national accounts classification:

- 01 Specialized production of coffee
- 02 Agriculture, and related service activities except specialized production of coffee
- 03 Farming of animals and hunting
- 04 Forestry, logging and related service activities
- 05 Fishing, operation of fish hatcheries and fish farms; service activities incidental to fishing

##### 3. 1. 1. Specialized Production of Coffee- 01

It refers to the specialized production of coffee, including the cherry processing that is, the separation of the grain from the cherry and its drying, since these activities are developed at the farm, before reaching the primary market. The indicator used for the regional distribution is the production of coffee in volume, information provided by the National Federation of Coffee Growers, which produces annual data at regional level.

##### 3. 1. 2. Agriculture, and Related Service Activities except Specialized Production of Coffee - 02

It refers to the culture of the following product groups:

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- 0201 Cereals.
- 0202 Vegetables, legumes, root vegetables and tubers.
- 0203 Fresh fruits and nuts.
- 0204 Oilseeds and oleaginous fruits.
- 0205 Living plants; cut flowers and flower buds; flower seeds and fruit seeds; vegetable seeds.
- 0206 Other plants for the preparation of beverages and spice crops.
- 0207 Unmanufactured tobacco
- 0208 Sugarcane.
- 0209 Raw vegetable material n. e. c.
- 0210 Plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes
- 0211 Areas in development and other services related to the agricultural production.

The assumption is that the distribution of an activity by department is the same one as that of its typical output.

The Information and Statistics Division of the Ministry of Agriculture and Rural Development (MADR) is the main source of information. It provides the production by department of the products (at 6 digits) that belong to the related groups.

Nevertheless, different sources of information are used for some products. This is the case of the following products:

- Fruit trees: from MADR's Information System of Colombian Agricultural Sector (ENA), the number of trees grown or planted by department is available.
- Agriculture related services from Group 0211 "Areas in development and other services related to the agricultural production" are distributed by department, based on information on planted area of sugarcane, banana tree of exportation type, banana tree for internal consumption, plantain and African palm, reported by MADR (products 021101, 021102, and 021103). Product 021104 "Aerial Spraying" is distributed based on the information on the behavior of areas planted with rice (irrigated rice, mechanized dry land rice, manual dry land rice), cotton, banana tree exportation type and technically produced maize. Product 021105, "cotton ginning" is distributed considering the behavior of the production of product 020901 "Cotton ginning". Based on these products, the distribution of the total of the group is built.
- Plants used primarily in perfumery, in pharmacy or for insecticidal, fungicidal or similar purposes include mainly cocaine leaf, poppy and marijuana. They are not considered in the regional accounts, because this activity is considered to occur in the "enclave", which was created artificially to register separately from the national economy, all productive activities related with the growing and processing of illegal drugs, a compilation whose results only refer to the national level.

### 3. 1. 3 Farming of Animals and Hunting - 03

The sectoral production is defined as farming of bovine cattle, sheep and goats, horses, asses, mules and other smaller productions, such as; poultry, beekeeping, rabbit farming; including the production of rawmilk, wool, eggs, wax, etc.

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In the system, the production of the activity is supposed to be equivalent to the production of its characteristic products. Therefore, the production is calculated based on products and then established by department.

It includes the following groups of products:

- 0301 Bovine cattle and by-products
- 0302 Poultry and by-products
- 0303 Pig cattle and other cattle; by-products and animal farming related services

### 3.1.3.1 Bovine cattle and by-products - 0301.

This group is divided into the following products:

- 030101 Bovine cattle, live
- 030102 Raw milk and milk cream

#### - Bovine Cattle, live (*bovine*):

In national accounts, bovine production is calculated from total extraction (determined by slaughter and export), plus net changes in the population levels.

This method cannot be implemented directly at regional level for several reasons:

- The slaughter made in a department does not necessarily correspond to animals farmed in this same department. This is clearly evidenced in Valle del Cauca, Antioquia and Bogotá (DC), regions that are net importers (from other departments) of live cattle for slaughter.
- Additionally, there are continuous movements of cattle population among departments, which are caused by climate and economic conditions, as well as specialization (bovine farming) and proximity to markets.
- Therefore, the decision was to distribute the production according to regional cattle population expressed in terms of Large Livestock Units (LLU), according to statistics provided by the ENA and in studies made by the Corporation of Agricultural and Cattle Studies of Andes University - (CEGA), which allowed dynamizing the structure of distribution of cattle production.

The LLU is the unit of measurement used for bovine cattle, whose equivalences are determined by sex, age bracket and weight.

**Table 2. Equivalences by age, weight and sex, according to age brackets, in months of bovines**

Groups of age (Months)	Equivalence age	Adult Equivalence/Age	Equivalence in Adult weight Sex	
			Female Adult	Male Adult
0 -12 months	Calves	4 calves= 1 adult	370 kg	420 kg
12 - 24 months	Young Bulls	2 young bulls =1 adult		
>24 months	Adults	1 adult = 1 adult		

Source: DANE, DSCN

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### - Raw milk and milk cream:

The National Association of Milk Producers (ANALAC) determines the percentage share per region of milk production, which is also distributed by department. Meanwhile, MADR reports in the Statistical Yearbook information referring to annual milk production. This national total is distributed among departments according to the shares reported by ANALAC.

**Table 3. Percentage share of milk production, according to regions and departments.**

Region	Share %	Region	Share %
<b>Atlantic Region</b>	<b>37,0</b>	<b>Western Region</b>	<b>19,0</b>
Atlántico	7,0	Antioquia	10,0
Bolívar	6,0	Caldas	1,7
Cesar	5,0	Quindío	3,1
Córdoba	7,0	Risaralda	2,2
Guajira	1,0	Huila	1,0
Magdalena	6,0	Tolima	1,0
Sucre	3,0		
Norte de Santander	2,0		
<b>Central Region</b>	<b>35,0</b>	<b>Pacific Region</b>	<b>9,0</b>
Boyacá	17,0	Putumayo	0,5
Cundinamarca	18,0	Cauca	1,5
		Nariño	5,5
		Valle Del Cauca and Cauca	1,5

Source: National Association of Milk Producers (ANALAC), 2005.

### 3.1.3.2. Poultry live - 0302

It includes fresh chickens, hens, ducks and turkeys, shelled fresh eggs, preserved or cooked, or embryonated. This information is provided by the National Federation of Poultry Producers (FENAVI).

### 3.1.3.3. Pig cattle and other cattle; by-products and animal farming related services - 0303

It includes sheep and goats, horses, pigs, asses and mules; similarly to the previous class, the population distribution is determined using the ENA, generating a distribution in terms of LLU, with exception of the pig cattle that relies upon a different source of information.

- **Pig cattle:** The inventory is taken from pig cattle census of the Pig Farmers Colombian Association, and the pig cattle of more than six months in age are calculated. (Refer to table 4)
- **Other cattle:** It is calculated considering weight by sex (male and female) and includes horses, asses, mules, sheep and goats. (Refer to Table 4)

**Table 4. Weight of minor species , by sex, Kilos**

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Species	Females	Males
Pig	70	75
Ovines	100	120
Goat	100	120
Horse	240	280
Ass	240	280
Hinny	240	280

Source: MADR, Farming National Survey (ENA)

### 3.1.3.4. Other live animals farmed and captured; and by-products of animal origin.

- **Other live animals farmed and captured:** corresponds to “rabbits and guinea pigs”. The output data is provided by the ENA - ITC - MADR. The conversion of the number of rabbits and guinea pigs into weight is the following:

- *Rabbits = Total weight (Females + Males) \* 2. 05 kilos*
- *Guinea pigs = Total weight (Females + Males) \* 1. 30 kilos*

- **By-products of animal origin:** corresponds to fine animal hairs; this information is obtained from horse basic statistics (030302), after the conversions of weight are made; the data on bovine semen is obtain from bovine basic statistics (030101) considering males in the group of 12 - 24 months and older than 24 months, after the conversions of the weight are made. The calculation for products such as silk cocoons, natural honey, snails and other products, is made through indirect measurements.
- **Veterinary medicine and services related to animal farming:** The indicator of distribution is the number of graduates in veterinary medicine and related specialties in public and private institutions by department.

The distribution by department of these products is used to distribute the production of the activity.

### 3. 1. 4 Forestry, logging and related service activities - 04

This activity is defined as “wood exploitation; plantation, replants, transplants, thinning and conservation of forests and forest zones. It includes cutting labor, smaller transport, survey and cutting, generally by hand with axe, machete or power saw; the transport from cut site to the patio or boom where it is decorticated and broken, and then taken to the sawmills by waterway or terrestrial”.

This activity refers to the following characteristic products:

040001	Logs
040002	Fuel wood
040003	Planted forests; by-products related with forestry (natural rubber, plant resins, cork, etc.)
040004	Protective planted forests
040005	Services related to forestry

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- **Logs:** it includes all lands covered with natural hoisted or planted trees which are considered as exploitation and which main purpose is to produce fuel wood, wood or environmental protection. The information is obtained directly from ENA by department and for the reference year.

- **Fuel wood:** It is calculated by department (data used is from census 2005 - national summary/Rest of the population -), considering the number of households that use fuel wood to cook. Additionally, national production of fuel wood (thousands of tons) is used which is registered in the Bulletin of UPME in the National Energetic Mining Balance sheet. This information is distributed by department among the population called "rest" (resident population outside the populated centers).

- **Planted forests; by-products related with forestry (natural rubber, plant resins, cork, etc. ):** the national production is registered in the stock account of forest planted with commercial purposes(provided by MADR) as well as the production area, and natural rubber yields CONIF, - MADR(Economic Perspective for the culture of the rubber) are used to distribute production by department.

The methodology defines that 75% of the production is assigned to commercial forests and 25% for natural rubber production.

- **Protective planted forests:** These are plantations of protective character only, although these can be used as timber through systems that guarantee sufficient arboreal coverage conservation in order to offer the environmental services they are meant for. For such effect, the Plan of Forest Handling will have to determine the adequate cutting, extracting and harvesting systems. The indicator used is the planned and achieved forest production (Hectares), provided by the Government Information System (SIGOB) (Management and follow up of Government goals): Forests with protective purposes, item "four-year period goals" by department.

- **Services related to forestry:** Its production is defined according to the behavior of the aggregate output of the four other products corresponding to activity 04.

### 3. 1. 5 Fishing, operation of fish hatcheries and fish farms; service activities incidental to fishing- 05

In this case also, the assumption is that the production of the activity is equal to the production of the characteristic output.

The production includes capture of fish, seafood, pearls and other species, both in marine and inner waters. It also includes the operation of fish farms, oyster farms, etc.

The characteristic products include the following groups:

- 0501 Fishes, live, fresh or chilled
- 0502 Crustaceans, oysters; other invertebrates; other aquatic products
- 0503 Fishing and fish farming related services

- **Fishes, live, fresh or chilled:** It includes marine fish and freshwater fishes. The extraction of marine fish is equal to the sum of informal and industrial fishing production of the Atlantic and Pacific oceans, which include the following departments:

- Pacific Ocean: Valle del Cauca, Nariño and Chocó (Buenaventura, Tumaco and Bahía Solano).

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➤ Atlantic Ocean: Bolivar, San Andrés and Magdalena,

For freshwater fishes, the indicator used is the fishing production of inland waters at regional level, resulting from the sum of fishing productions of the hydrographic river basins (Magdalena, Amazonas, Orinoco, Atrato and Sinú), along with the regional fishery production.

The source of information for these products is the ITC Statistical Bulletin of fishing and fish farming

- **Crustaceans; oysters; other invertebrates; other aquatic products:** The information is taken from crustaceans and mollusks, which is the result of the sum of the informal and industrial fishing production of the Atlantic and Pacific oceans (Tons).

- **Fishing and fish farming related services:** The indicator used is the production by department of product 050101 "Marine water fish" because the production of this product consumes most of the fishing and fish farming related services

### 3. 2 MINING - 06 - 09

The distribution of production and value added of mining is established using the information of the distribution of output of the associated products by department, that is, a complete identity between the output of the activity and its typical output is supposed.

#### 3. 2. 1 Mineral Coal - 06

It includes the following products:

060001 Thermal Coal  
060003 Mineral coal production related services

- **Thermal Coal:** The national production of pit or opencast coal and coking or metallurgical tunnel coal is distributed based on information on production in tons by department provided by UPME.

- **Mineral production related services** are established using the production of product 060001 by department.

#### 3. 2. 2 Crude petroleum, natural gas and uranium and thorium minerals - 07

It includes the following products:

070001 Crude petroleum.  
070002 Natural gas  
070003 Services related to petroleum extraction and natural gas, except those of prospection.

There is a regional breakdown of the production of crude petroleum and natural gas expressed in terms of thousands of barrels (for petroleum) or cubic feet (for natural gas) by department; this information is provided by the Subdivision of Hydrocarbons of the Ministry of Mines and Energy. The regional distribution of services related to extraction of mining products is based on the regional structure in value of oil and natural gas activities.

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### 3. 2. 3 Metal ores - 08

It includes the following groups:

- 0801 Common Ores
- 0802 Precious metal ores.

- **Common Ores:** The following products are included: iron, copper and nickel. The production of iron, copper and nickel, by department uses tons as indicator, and it is obtained from the information reported in the UPME Statistical Bulletin.

- **Precious metal ores:** The regional production of gold, silver and platinum in thousands of grams, is obtained from the UPME Statistical Bulletin.

### 3. 2. 4 Non-metallic ores.- 09

It includes the following groups:

- 0901 Rocks and materials used directly in construction
- 0902 Evaporites
- 0903 Non-metallic ores for industrial uses.
- 0904 Emeralds and other precious and semiprecious stones

- **Rocks and materials used directly for construction:** The structure to distribute the national production of rocks and materials for construction regionally was established based on the regional production of marble in tons, provided by the Ministry of Mines and Energy: As there is no direct information on rock sand, river sand and rocks for construction, the structure that is applied is the one consolidated for construction of buildings, works and civil engineering works.

- **Evaporites:** The breakdown of national production at regional level is based on the production by department of rock and marine salt in tons, provided by the Concesión Salinas administered by the Institute of Industrial Promotion (IFI)(2003-2008), INGEOMINAS (2008-2011) and the Colombian Geological Survey (2012 onwards).

- **Non-metallic ores for industrial uses:** UPME provides the regional production of common clay, kaolin, siliceous clays and bentonite, sands and gravel, bitumen and asphalts, limestone, minerals for the manufacture of fertilizers, chemicals and others, in tons. The structures that are required in order to distribute the national production by department are elaborated based on this information.

- **Emeralds and other precious and semiprecious stones:** The domestic production of emerald expressed in carats is distributed regionally by UPME.

### 3. 3. MANUFACTURING INDUSTRY 10 - 37

According to the 2005 national accounts classification, the manufacturing industry includes the following activities:

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- 10 Production, processing and preservation of meat and fish
- 11 Manufacture of vegetable and animal oils and fats
- 12 Manufacture of dairy products
- 13 Manufacture of grain mill products, starches and starch products, prepared animal feeds, bakery products, macaroni, noodles, couscous and similar farinaceous products
- 14 Manufacture of coffee products
- 15 Sugar mills and refineries
- 16 Manufacture of cocoa, chocolate and sugar confectionery
- 17 Manufacture of other food products n. e. c.
- 18 Manufacture of beverages
- 19 Manufacture of tobacco products
- 20 Preparation and spinning of textile fibers, weaving of textiles, and finishing of textiles produced in another production unit
- 21 Manufacture of other textiles
- 22 Manufacture of wearing apparel, including knitted and crocheted fabrics and articles; dressing and dyeing of fur; manufacture of articles of fur
- 23 Tanning and dressing of leather; manufacture of footwear; manufacture of travel accessories, luggage, handbags, saddlery and harnesses
- 24 Processing of wood, manufacture of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
- 25 Manufacture of paper, paperboard and paper and paperboard products
- 26 Publishing and printing
- 27 Manufacture of coke, refined petroleum products and nuclear fuel
- 28 Manufacture of basic chemicals and chemical products except synthetic rubber in primary forms
- 29 Manufacture of rubber and plastic products including synthetic rubber in primary forms
- 30 Manufacture of other non-metallic mineral products
- 31 Manufacture of basic metallurgical products and of fabricated metal products, except machinery and equipment
- 32 Manufacture of machinery and equipment n. e. c.
- 33 Manufacture of office, accounting and computing machinery, electrical machinery, radio, television and communication equipment, medical, precision and optical instruments, watches and clocks and apparatus n. e. c.
- 34 Manufacture of motor vehicles, trailers and semi-trailers and of other transport equipment
- 35 Manufacture of furniture;
- 36 Other manufacturing n. e. c.
- 37 Recycling

The main information source on the manufacturing industry is the Annual Manufacturing Survey (EAM), applied to all industrial establishments located within the national territory with 10 or more employees. This survey provides information at the 4-digit activity level of the ISIC classification, as well as, at the 8-digit product level of the CPC classification. This information is also classified by department. Using this information it is possible to establish complete production accounts of the activities according to the principles of national accounts.

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However, it is necessary to consider that the manufacturing industry data of national accounts, though based primarily on the EAM, does not totally coincide with the EAM data in particular due to coverage differentials by activity, and therefore, it is necessary to make the same adjustments in regional accounts as in annual accounts. The adjustments are the following:

- Complement the annual data coverage (It is necessary to use alternative information other than EAM);
- Reclassification of establishments among activities;
- Revision of production and intermediate consumption levels; and
- Estimation of establishments with less than 10 employees.

The regionalization of the adjustments made directly to the establishments included in the EAM is not very difficult because the establishments are georeferenced.

Other adjustments made are related to establishments which should be included into EAM's coverage but for some reasons are not. These also are easy to assign to regions. Other adjustments are related to the identification of global under-recording of some activities. This is the case of activity 10 "Production, processing and preservation of meat and fish" and activity 13 "Manufacture of grain mill products, starches and starch products, prepared animal feeds, bakery products, macaroni, noodles, couscous and similar farinaceous products".

Activity 10 is adjusted using the information from the research on cattle slaughter made by ENA, and activity 13 is adjusted according to the regional structure of bread consumption derived from the Household Income and Expenditure National Survey.

Finally, the adjustment related to small industry which is outside the scope of the EAM, is based on the distribution of employment in those industries as declared in the Economic Census of 2005 that specially covered establishments with less than 10 employees.

Due to confidentiality restrictions, in some departments, as well as the lack of statistical representativeness of certain activities; the results of manufacturing industry are presented in an aggregated form, in two major groupings of industrial activities: Food, beverages and tobacco (10-19) and rest of the industry (20-37) though calculation are made at a detailed level.

### 3. 4. PROVISION OF ELECTRICITY, GAS AND WATER 38-39-40

**Power Sector – 38:** It includes the generation (GWH), transmission and distribution of electricity for sale to households, industrial and commercial consumers. The indicator used is residential and non-residential consumption value, which is distributed by departments according to the information regarding the amount of energy generated, and sales to households, industrial and commercial information broken down by department, provided by XM measured in GWH.

**Gas distributed through mains- 39:** As for electrical energy, the regional distribution indicator is the value consumed (residential and non-residential) measured in  $m^3$ , in year  $n$ ; this information is obtained from the Superintendency of Public Utilities (SUI) and the Bulletin of the Central Bank. Residential consumption corresponds to households, and non-residential consumption refers to commercial, industrial and vehicular consumption.

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**Water - 40:** The statistical information is obtained from the information reported by the Finance and Public Financial Information Consolidation System (CHIP), the Superintendency of Public Utilities (SUI) and SISEP. The distribution indicator is the variable called “value of residential and non-residential water consumption” by department.

### **3. 5. BUILDING CONSTRUCTION (FOR RESIDENTIAL AND NON-RESIDENTIAL USE) INCLUDING LAND PREPARATION; RENTING OF CONSTRUCTION OR DEMOLITION EQUIPMENT WITH OPERATOR - 41**

It includes the activities of forests clearance, land clearing, reframing, excavation and other activities of site preparation for construction activities; additionally, typical activities and some special activities of construction building corporations for different uses are included, irrespective of the type of materials used. The production of new works, extensions and reforms, as well as, production of prefabricated constructions and temporary construction works are also included.

These activities can be carried out independently or on a fee or contract basis.

It includes the following typical products:

- 4101 Construction works and building of residential constructions
- 4102 Construction works and building of non-residential constructions
- 4103 Repairs, adjustment and maintenance of constructions
- 4104 Services of equipment rental with operator for building or constructions demolition

In this case, the distribution of the production of the activity is determined by the geographic distribution of its typical products.

The production of residential and non-residential constructions is broken down by department, based on two complementary estimations: the number of constructed square meters for fifteen metropolitan areas included in the Construction Census of DANE, in departments such as Antioquia, Atlántico, Bolívar, Caldas, Cauca, Huila, Meta, Nariño, Norte de Santander, Quindío, Risaralda, Santander, Tolima, Valle del Cauca and Bogotá; and for the rest of the economic territory, the number of approved square meters is used as the indicator according to construction licenses of DANE; these two sources are combined to distribute the national production of products 4101 and 4102.

The structure obtained from the production of products 4101 and 4102 are used as distribution indicator for product 4103.

For services of equipment rental with operator (4104), the information used is that of employment from the 2005 economic census.

### **3. 6. SITE PREPARATION FOR CIVIL WORK; CIVIL ENGINEERING – 42**

It includes general and specialized independent contractors engaged in activities related to building, reforming and repairing of highways, streets and bridges, viaducts, culverts and water conduction facilities, gas and electricity, superstructures for railroads, ports, channels, wharves, airports and parking zones; dams, works of drainage and irrigation; hydroelectric and hydraulic central facilities; pipe lines and gas pipelines; sport fields; communication systems, such as telephone and telegraphic lines. Also, the

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corporations engaged in providing services related to mining operation on a fee or contract basis, such as site preparation for constructions, natural gas and oil well perforation, as well as, activities such as facilities of plumbing, heating and air conditioning; brick positioning, floor tiles, carving marble and stone; carpentry, painting and decoration; electrical systems; assembly and installation of prefabricated parts of bridges, water tanks, railroads, elevated highways systems of elevators and movable stairs, etc.

In national accounts, this activity refers to the following products: highways, streets, ways, bridges, elevated highways, tunnels and the construction of subways, railroads, runways, water routes, ports, dams and other harbor works, urban pipes for long-distance transportation, communications and energy lines (cables), pipes and cables, auxiliary urban works, mining constructions, and other engineer installations; services of renting of construction or demolition equipment with operators for civil engineering construction or demolition.

The production of civil construction is distributed by department, based on the localization of the works. The information used derive from the financial statements and the reports on the execution of public works.

The process starts from national accounts annual data, and with the identification of the most important public works agencies: the Administrative Department of Civil Aeronautics [DAAC], National Roads Institute [INVIAS], National Road Fund, Ministry of Transport, Ministry of Mines and Energy, Ministry of Finance and Public Credit, Institute of Environmental and Meteorological Studies (IDEAM), Fund of National Estate, DNP, Regional Autonomous Corporation of la Sabana de Bogotá, Valle de Ubaté and Chiquinquirá [CAR], National Coffee Fund, Regional Autonomous Corporation of La Guajira, Investment Fund for Regional Development of the Atlantic Coast [CORPES], on which basis, the production of construction by department is established. For this purpose, the data used derive from the financial statements and the report on the execution of public works. In some cases, there are difficulties for construction projects carried out by organizations that belong to the central government (INVIAS,) and by national public corporations (Colombian Petroleum Company [ECOPETROL], Interconexión Eléctrica S. A. [ISA], National Company of Telecommunications [TELECOM]). In those cases, the construction is allocated regionally using indicators, such as the kilometers of construction constructed by sections of the country.

As a result of the development of information systems of national accounts, currently, the public administration sector has information on civil works by purpose, activity and department. Financial statements are also used for most important corporations.

### 3. 7. WHOLESALE AND RETAIL TRADE - 43

In national accounting, “trade” has been defined as the sum of commercial margins generated by establishments dedicated to the re-sale without transformation of products previously acquired from other establishments. In national accounts, this production is measured through a supply and demand analysis, in which commercial margins per group of goods, according to their use are estimated. It is not possible to use a similar methodology by department, because there are no regionally broken down commodity balances.

Considering the above, a methodology was designed which enables knowing the commercial activity at a regional level. A regional employment structure for trade was derived from the 2005 economic census and it was combined with data on productivity obtained from the DANE Annual Trade Survey (EAC) for the different scales of personnel. The above was broken down for wholesale trade and retail trade, in order to obtain a unique structure for the entire trade activity by department.

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### **3. 8. REPAIR OF MOTOR VEHICLES, MOTORCYCLES AND PERSONAL AND HOUSEHOLD GOODS - 44**

It includes maintenance and repair of motor vehicles, including washing, polishing, etc., and repair of personal and household goods except those comprised in manufacturing and wholesale or retail trade activities. It includes the following products:

- 4401 Services of motor vehicles repair
- 4402 Services of personal and household goods repair

To regionalize the services of motor vehicle repair, the indicator used is the vehicle fleet by department, information provided by the Ministry of Transport, Division of Motor Transport. It includes both public and individual service considering the different types of vehicles: bus, van, minibus and car.

For personal and household goods repair services, the indicator used is the population forecasts, assuming implicitly that the expenses for these services are proportional to household expenses and population in general, particularly urban population, that might show a sufficient income level so as to be able to buy goods that eventually would need to be repaired.

### **3. 9. HOTELS, RESTAURANTS, BARS AND SIMILAR ESTABLISHMENTS - 45**

This activity includes the provision of accommodation or non-permanent lodging and facilities or places to camp, for a payment, and is available for both the public in general and the affiliates to certain organizations; it includes the restaurant services provided along with the accommodation. It also includes establishments whose main activity is to prepare and sell food for immediate consumption, such as: restaurants, cafeterias, grill restaurants, fish markets, snack bars, refreshment stands, etc.

It includes the following products:

- 4501 Accommodation services for visitors
- 4502 Food and beverage serving services

The distribution indicator used for accommodation services is the operational income derived from the sales of rooms, calculated from information based on the number of rooms, occupancy rates and average rates, according to the categories provided by the Hotel Association of Colombia (COTELCO) for the departments where its affiliates operate. The formula used to calculate the distribution indicator is:

$$I = \text{Number rooms} \times \text{average rate} \times \% \text{ occupancy rate}$$

Food and beverage serving services are distributed according to the study of household final consumption expenditure and the application of human consumption coefficients derived from a research made for the calculation of annual national accounts. The distribution of these products is made according to the projected population of each department.

### **3. 10 TRANSPORT - 46-49**

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Due to its nature, this is an activity “not easily locatable in a region” as it consists of transporting goods or persons from one place to another, according to the typology defined in paragraph 1. 1. 4 (*Activities not easily locatable in a region*).

Therefore, the regionalization of this activity implies using conventional procedures, which might be a matter of debates and discussions. Particularly, the methods listed here are not homogenous. The revision of the indicators being used is a field of future research.

### 3. 10. 1 Land Transport - 46

It includes the following products:

- 4601 Road passenger transport services
- 4602 Road freight transport services including by railroad
- 4603 Transport services via pipelines

- **Road passenger transport services - 4601:** The urban and suburban transport of passengers is distributed by department with the information of total fares per city, in millions of Colombian pesos, provided by the research on transport by DANE.

Nevertheless, for interurban transport of passengers and cab services, the production allocation principle used is based on data of registration of public service vehicles, regardless its place of operation.

Therefore, the information provided by the Ministry of Transport related to vehicle fleet by department and public service modality is used as the indicator and is classified and later combined according to the types of vehicles associated with this type of transport.

- **Road freight transport services including by railroad- 4602:** Unlike the previous product for which the distribution of the service among departments is based on the place of registry of the vehicle, in this case, the principle of distribution used is based on the department of origin of the merchandise, independently of its destination or the value charged for the transport service. The Ministry of Transport provides the volumes in tons of freight transported according to the department of origin; these volumes are used as the indicator for the regional distribution of the services.

- **Transport services via pipelines - 4603:** Similar to the previous product, the transport services via pipelines is distributed among departments based on the department of origin of the transported flow: in order to distribute the national production of this service regionally, the information provided by ECOPETROL is used as the indicator, which refers to the volume mobilized through the different types of pipelines according to the department of origin per portion of the pipeline. The products that correspond to these volumes transported are: crude petroleum, natural gas, refined petroleum and petroleum products.

### 3. 10. 2 Water Transport - 47

This includes the following products:

- 4701 Coastal and transoceanic transport services of passengers and freight
- 4702 Inland transport services of passengers and freight

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- **Coastal and transoceanic transport services of passengers and freight:** Although most of the departments do not have a sea border, by convention, sea transport of freight is defined as the services provided to import and export merchandise from each department. For that reason, the indicator used is the value of imports and exports according to origin and destination of merchandise, information provided by DANE and DIAN; the structure obtained by department is applied to the national production level.

- **Inland Transport Services of passengers and freight:** The distribution indicator is based on the number of passengers and volume in tons from different ports. The information is provided by the General Division of Inland Transport of the Ministry of Transport.

### 3. 10. 3 Air Transport - 48

The following products are included:

- 4801 Regular and non-regular air passenger transport services and rental of airships with crew.
- 4802 Air transport services of freight

The DAAC provides the information corresponding to this type of transport.

- **Air passenger transport services:** The indicators used are: passengers departing from airports for international air transportation and passengers departing through national corporations. Then, they are multiplied by the average distance in kilometers of departing flights. The indicator is passenger-kilometer, the information is provided by the DAAC.

- **Air transport services of freight:** For regular and non-regular national air transport, the information used is that of tons mobilized. For international transport of freight the information on freight transported by the national corporations is used, which is then multiplied by the average distance in kilometers. The indicator is ton-kilometer, and the information is from DAAC.

### 3. 10. 4 Supporting and auxiliary transport activities; activities of travel agencies - 49

It includes the following products:

#### 4901 Supporting and auxiliary transport services

- 490101 Storage, load and unloading services
- 490103 Complementary services for transport by road and railroad.
- 490104 Complementary services for transport by water.
- 490105 Complementary services for transport by air.

#### 4202 Other supporting and auxiliary transport services

- 490201 Services of travel agencies, tour operators and tourism guides.
- 490202 Other services related to transport

- **490101 Storage, load and unloading services:** The indicator used is the operational gross incomes of regional ports and private docks; the information is obtained from the General Superintendence of Ports. These ports and docks are distributed according to their regional location. Storage services are distributed regionally, considering the structure given by the products that mainly use this service: coffee, oil and products of flour milling.

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- **490103 Supporting services for transport by road and railroads:** The values collected at tolls are used as an indicator, depending on the department in which they are located; this information is provided by INVIAS.

- **490104 Supporting services for transport by water:** In order to establish the regional distribution, the number of passengers departing from different ports is used as indicator by department.

- **490105 Supporting services for transport by air:** The volume of operational income per airport is used as indicator, an information provided by the Administrative Department of Civil Aeronautics; the regional structure is applied to the national production of national accounts.

- **490201 Services of travel agencies, tour operators and tourism guides:** Given the lack of information for these services, the indicator is built on the basis of the sum of national passengers and international passengers who use air transport provided by national corporations. This information is provided by the Administrative Department of Civil Aeronautics.

- **490299 Other services related to transport:** These services include service activities developed at the ports, including shipper services, transport organization, grouping and load division, etc. The distribution indicator used for these services is the value of the imports of goods according to the department of destination, information that is provided by DIAN.

### 3. 11. POST AND TELECOMMUNICATIONS - 50

The products associated with these activities include the services provided to the public such as mail, telephone, telegraph, radio and cable television, services of data transmission and other telecommunications services, such as, television transmission.

It includes the following product groups:

- 5001 Postal services
- 5002 Telecommunication services.

- **Postal Services:** The regional structure is based on the information of the “regional incomes” selected by origin, provided by the national Postal service of Colombia (4-72), and the most representative courier private corporations: DEPRISA and SERVIENTREGA.

- **Telecommunication services:** The structure used for long distance national and international phone calls is based on the number of subscribers invoiced per department, information provided by the Single Utility Information System (SUI). For local, long distance and mobile calls, the indicator used is based on operational incomes registered by the Communication Regulation Commission. The indicator used for mobile telephone services is based on the invoices of each mobile telephone company.

In order to distribute telegraph service, the information used was that of expenses by department from the DANE Household Income and Expenditure Survey (2006-2007); data transmission services were distributed based on regional sales, provided by TELECOM. Operational incomes from paid-television services are used as indicator for cable television services, information provided by the Financial Report of the National Commission of Television and finally, for “Other services of telecommunications” the television viewer

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structure was applied, considering the regional distribution of the population aged from 5 to 55 years, derived from the projections of DANE 2005 population Census.

### 3. 12. FINANCIAL INTERMEDIATION, INCLUDING INSURANCE AND PENSION AND SEVERANCE FUNDS - 51

This group includes the activities of obtaining funds in the form of transferable deposits or other type of deposits and extending credit or lending funds; it also includes using funds for compensation operations among financial institutions, the distribution plans of short and long term risk, the operation of EPS<sup>5</sup> and pension schemes other than social security.

It refers principally to the following products:

- 5101 Financial intermediation services, except insurance and services related to compulsory social security.
- 5102 Insurance services (including reinsurance) and services related to compulsory social security (health, pensions and professional risks).
- 5103 Auxiliary services of financial intermediation, insurance corporations, and administration of pension funds and “cesantías”<sup>6</sup>.

This group includes the activity of monetary institutions that receive transferable deposits by check, usable in another form, or transferable; that of other credit institutions, such as loan and deposit associations, industrial development banks, investment portfolios, trust funds, holding corporations; financial auxiliaries, such as currency exchange, stock market, all type of insurance corporations; agents and insurance brokers etc.; EPS, private pension funds, etc.

The financial activity typically consists in emitting financial liabilities in order to lend, that is to say, intermediation among those who have an excess of resources and those who need them, or the socialization of individual risks (case of insurance). In these activities, the securing of resources and its use do not necessarily occur in the same region, and both aspects are equally important, and they do not exist independently from one another, that is, these activities are not easily locatable in a region (refer to paragraph 1.1.4-*Activities not easily locatable in a region*).

Therefore, their regionalization is done through conventions. In this case, the regionalization of deposits (origin of the resources) or of insurance policies was used as a criterion, in spite of the fact that the production (case of FISIM in particular), is calculated for both assets and financial liabilities of the financial institutions.

The following indicators are used to regionalize the national aggregates:

- Portfolios and deposits are used for monetary institutions and other credit institutions.

<sup>55</sup> EPS (Empresas Promotoras de Salud) are entities, operating as insurance corporations that manage the social security scheme in health.

<sup>6</sup> “Cesantías” correspond to an additional payment, corresponding to a month’s wage that employers have to accumulate in a special fund, for the individual benefit of each employee, initially conceived such as to accumulate a savings fund in case of unemployment, but actually, it is mostly used for other purposes such as the financing of housing or education.

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- Commissions from pension administration funds are used for pension funds, and are distributed by department following the structure of change in total assets by department.
- For compulsory social insurance (EPS), the structure is based on the number of affiliates by department with respect to the health and professional risks protection schemes.
- For insurance services, the indicator is the value of the insurance premiums paid by region and which is obtained from the information provided by the Colombian Insurers Federation (FASECOLDA).
- To measure auxiliary financial intermediation services, other than insurance and pension funds, the indicator used is the value of commissions paid to investment funds, taken from the Superintendency of Finance, which is regionalized based on the structure of net investment in assets (machinery, equipment, etc.) by department as reported in EAM.

### 3. 13. REAL ESTATE ACTIVITIES AND RENTALS OF DWELLINGS – 52

This includes the following products:

- 5201 Renting or leasing services involving own or leased property
- 5202 Real estate services on a fee or contract basis.

National accounts includes within the production boundary, services provided by dwellings, both those rented as well as those occupied by their owners. The production is measured based on the existing inventory of dwellings data given moment, to which an average annual rental is allocated, depending on the characteristics of the dwelling (house, apartment, etc.).

**- Renting or leasing services involving residential property on own account or by third parties:** In order to obtain the regional distribution of these services, the regional information on dwelling and population projections that are used for the construction of the national data, and the average household expenditure on rentals (real or imputed) reported in the DANE Household Income and Expenditure Survey (2006-2007) were used. The structure is updated with information on the stock of owned and rented dwelling and on the value of the average rental, information that is available at regional level.

**- Renting or leasing services involving non-residential property:** The indicators used for this service, are: stock of non-residential constructions provided by DANE (warehouses, farming constructions, industrial factories, plants, office buildings, banks, stores, airports and railway terminal, parking lots, fueling stations, buildings for public shows, schools, etc.); a regional average price of rental by type of construction is applied: this allows regionalizing the national production.

**- Real estate services on a fee or contract basis:** The national production is broken down by department through real estate service payments made on a fee or contract basis, information derived from the DANE Household Income and Expenditure Survey (2006-2007); the data concerning the following years are estimated, applying the price index to a volume change estimated globally based on population growth.

### 3. 14. RENTING AND BUSINESS ACTIVITIES - 53

The following products correspond typically to this activity:

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5301 Leasing and rental services without operator; computer science services, research and development; professional, scientific and technical services.

5302 Business services n. e. c.

- **Leasing and rental services without operator; computer science services, research and development; professional, scientific and technical services:** It includes long-term lease of machinery and equipment, with or without maintenance services, rental of all type of personal and household goods to both households and corporations, specialized rental of clothes such as footwear and wardrobe, glass and ceramics articles, table and kitchenware, household and electrical goods, bicycles, sports goods including for aquatic activities, horseback riding, musical instruments, jewelry, scenery and costumes materials, newspapers, magazines and books, discs and tapes to record images and sound, consulting services, and provisioning of: computer science equipment, software, data processing, preparation and storage of databases and stored information provisioning, office equipment maintenance and repair, accounting and computer science, research services and experimental development in engineering, natural and social sciences and humanities, accounting, tax advising, audit and bookkeeping services, marketing, public opinion survey, consulting service in administration and management, services in architecture and engineering and other architecture and engineering services and other technical activities, advertising services, staff recruitment, investigation and security, building cleaning, photography and package and packing services.

- **Leasing or rental services of lease or rental of machinery and equipment without operator; personal and household goods:** The EAM provides data on expenses in rental of machinery and equipment. To obtain a final regional structure of services related to personal and household goods, the information from the Economic Census 2005 on employment in those activities according to ISIC 3. A.C. classification is used.

- **Computer science services and related services:** The report of payments made by the corporations in the EAM for purchase of software is used.

- **Research and development services:** The indicator used is based on the incomes received by the universities per region provided by the Colombian Institute for the Promotion of Higher Education (ICFES).

- **Legal, accounting, auditing; tax advisory services; marketing; consultants in administration; architecture, engineering services and other technical services.** In order to distribute the products related to this subgroup by department, the indicators used are: incomes perceived by the notary's offices, persons employed in such activities (economic census), collections of rent, stamps, property and vehicle taxes provided by DIAN and expenses by corporations in research and market studies according to the EAM. The above are combined considering as reference the observed weighing of the product at its more detailed level in base year 2005.

- **Business services n.e.c.:** In order to distribute regionally the products included in this subgroup of activities, the indicators used are the expenses made by the corporations from the EAM and the number of persons employed in such activities by department according to the 2005 economic census. These are combined considering as reference the observed weighing of the product at its more disaggregated level of national data for base year 2005.

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### 3. 15. PUBLIC ADMINISTRATION AND DEFENSE; COMPULSORY SOCIAL SECURITY -54

This service includes the activities of various administrative bodies belonging to central and local governments, including organizations, such as the Armed Forces and the Police, legislative, judicial and administrative ordinary dependencies and offices; divisions, entities and offices whose purpose is the development of activities, such as, foreign affairs, taxes and finances, public order and security, collection and analysis of statistics and general, economic, social and communal policy; as well as institutes mainly dedicated to basic and general research in biological, physical and social sciences.

In national accounts, government services are valued using their costs of production. The structure of public administration is determined for the subsectors of the central, local and social security government. For the local subsector, the structure was determined directly through the software tool of National Accounts (SIGOB), which reports the expenditure values corresponding to each administrative unit (departments and municipalities) which are then aggregated at regional level.

The economic units belonging to the central subsector do not carry out all their activities in the capital city: some units operate at the local level, and for those it is possible to have annual costs of the compensation of employees. The structure of employee compensations allows distributing the value added by department.

Similarly, the units belonging to the social security subsector make some operations at the local level, and the compensations paid are known, which are distributed regionally based on the structure of the number of affiliates to the Subsidized Scheme<sup>7</sup> by department, an information provided by the Ministry of Health and Social Protection.

### 3. 16. MARKET EDUCATION- 55

It includes the following products:

550001	Services of market pre-school education.
550002	Services of market primary education.
550003	Services of market secondary education.
550004	Services of market higher education.
550005	Services of education of adults and other services of market education n. e. c.

It includes all types of education, provided by institutions and particular teachers; the full and partial time education or intensive education; day or night schedule, at any level and for any profession; as long as there is a tuition fee per student whose value covers approximately the production costs.

The indicators used are: students registered in each education level (pre-school, primary, secondary and superior), by department and the average base rate. The student information is provided by the Ministry of National Education, as well as, the base rate for base year 2005. For current years the rate is adjusted based on the Consumer Price Index (CPI) (Tuitions of basic, secondary and vocational education).

For services related to higher education, the indicator used is the number of students registered, as well as the average base rate for private universities; this information is provided by the Ministry of National

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Education. The rate is adjusted from year to year with the CPI corresponding to tuitions (superior and non-formal education tuitions).

In relation to education services for adults and other education services, the indicator used is the number of students registered in the educational projects offered by the Cajas de Compensación Familiar<sup>8</sup> by department.

### 3. 17. NON-MARKET EDUCATION - 56

It includes the following products:

560001	Services of non-market pre-school education.
560002	Services of non-market primary education.
560003	Services of non-market secondary education.
560004	Services of non-market higher education.
560005	Services of education for adults and other services of non-market education n. e. c.

The indicator used is the value of transfers assigned to the education sector by department, which is provided by DNP as it is meant to cover current costs.

### 3. 18. MARKET HEALTH AND SOCIAL WORK - 57

It includes the provision of health and social work activities. Included activities range from health care provided by trained medical professionals in hospitals and other facilities, to residential care activities that still involve a degree of health care activities and social work activities without any involvement of health care professionals. For this activity, the indicator used to distribute the national figures is the number of affiliates to each EPS (contributive and subsidized system) by department as reported by the Ministry of Health and Social Protection and FOSYGA's affiliation unique database.

### 3. 19. SEWERAGE AND REFUSE DISPOSAL, SANITATION AND SIMILAR ACTIVITIES - 58

This group includes sewerage and cleaning services and other activities of waste disposition.

580001	Sewerage
580002	Waste elimination, cleaning and other environmental protection services.

- **Sewerage:** Similar to water, the information is obtained from CHIP of the National Accounting Office. The regional distribution variable from national accounts is the value of residential and non-residential sewerage consumption by department.

- **Waste elimination:** The structure is the same as that of sewage.

<sup>8</sup> Privately managed funds that administer the social insurance scheme related to family protection; they also have important social programs in areas of health, education and recreation

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### 3. 20. OTHER MARKET COMMUNITY, SOCIAL AND PERSONAL SERVICE ACTIVITIES EXCEPT SEWERAGE AND REFUSE DISPOSAL, SANITATION AND SIMILAR ACTIVITIES -59

It includes the following products:

590001	Services of market associations
590002	Services of production and distribution of cinematographic films and video tapes
590003	Services of projection of cinematographic films
590004	Services of radio and television (production)
590005	Artistic, promotion and show organization services.
590006	Services of news agencies
590007	Services of cultural libraries, archives and other services
590008	Gambling
590009	Sport services
590010	Other entertainment and recreation market services of (circuses, amusement parks, fairs, sport positions)
590011	Services of laundries, hairdressing salons, mortuary and other personal services n.e.c.

Each product has an indicator, as shown below:

- **Services of market associations:** The activities of organizations, in which the main interest of their members is the development and prosperity of a certain sector of enterprises or commercial activity, even concerning the farming sectoral studied. The activities of federations or associations whose members share a same activity are included, as well as associations based on territorial criteria whose aim is to extend its geographic scope. In addition, the activities of organizations in which their members are interested mainly in the scientific discipline, professional practice or technical approach, the activities of special associations from the cultural field, such as, writers, painters, artists, journalists, and professional services provided by professional organizations are also included.

The indicator used for the services of market associations is the number of persons employed in the activity as derived from the 2005 economic census, according to the ISIC-3 classification of such activities.

- **Services of radio and television, services of cultural libraries, archives and other services; artistic services:** The distribution of the national figure is made according to the structure obtained through the number of persons employed in the activity according to the 2005 economic census and to the ISIC-3 classification.

- **Entertainment, cultural and sports services:** The information used to measure these services is as follows: the production and distribution of cinematographic films, the activities of news agencies, the attendance at movie cinemas (it corresponds to the projection of films) and to soccer games; and the production of lotteries and permanent bets, an information provided by the Superintendence of Health (because of the taxes that are to be paid on the products).

- **Other services:** These services refer to the washing and cleaning of fabrics; the indicator used is the average expenditure of households, according to the DANE Household Income and Expenditure Survey (2006-2007) by department. For mortuary, cremation and burial services, the information used is that provided by the investigation of deaths of DANE, and the operational incomes of the corporations engaged in providing such services. For services related to hairdressing salons and other beauty services, the

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information reported in the 2005 census was used as an indicator of the distribution of the population who uses this service, and the value of the service is updated with CPI. These indicators are combined through a weighting obtained for the base year, in order to obtain the distribution structure for annual production.

### **3. 21. SERVICES OF MEMBERSHIP ORGANIZATIONS, CULTURAL, SPORTS AND OTHER NON-MARKET SERVICES- 60**

It includes recreation services, such as movies, bands, orchestras, theaters, libraries, museums, zoological, cultural services and diversions and recreation services not previously specified, such as, those provided in parks, theaters, swimming pools, etc. provided by the national and local governments and other nonprofit organizations , for a price that does not cover its costs of production.

The variable used as indicator is the expenses incurred at the regional level in remuneration of employees of all the local state organizations and associations, which provide such non-market services.

### **3. 22. PRIVATE HOUSEHOLDS WITH EMPLOYED PERSONS - 61**

It includes the activities of private households that employ all type of domestic staff , such as, housemaids, cooks, waitresses, cam assistants, butlers, launderers, gardeners, doormen, neighborhood watchers, drivers, janitors, governesses, nursemaids, secretaries and, generally, workers employed for the maintenance of private homes.

The structure of this activity is constructed by department using the information on occupational position of the 2005Population Census and the average wage calculated for the domestic service.

### **3. 23. NET TAXES ON PRODUCTS**

The net taxes on products must be added to the sum of the value added of the activities (calculated at basic prices), so as to obtain Gross Domestic Product, according to the international definitions.

These taxes comprise levies and taxes on imports, non-deductible value added tax, and other taxes net of subsidies on products.

In order to distribute the levies and taxes on imports by department, the indicator used is that of "imports according to destination" from DANE foreign trade statistics.

The non-deductible Value Added Tax (VAT), and taxes and subsidies on products that are calculated nationally, product by product, are distributed by department according to the regional economic production structure of the corresponding products.

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#### 4. MAIN METHODOLOGICAL CHANGES OF THE REGIONAL ACCOUNTS FROM THE 2000 BASE TO THE 2005 BASE

The changes introduced in the new 2005 base at the level of the national economy, were materialized in increases or decreases in the values of production and value added of the economic activities and those changes had their effect at the regional level based on the importance of each in the GDP of each department.

The general method of construction of the indicators for the regional distribution of the national value added in the 2005 base is the same as the one used in the 2000 base. However, the methods used to obtain the values at constant prices was modified, as it is now based on the chaining of indices calculated year to year that is, using the same statistical procedure as the one used in the calculation of annual national accounts at constant prices. Even though it allows a better approach to volume changes, this method introduces statistical discrepancies in the accounting equalities and in particular at 2005 constant prices by chaining, the sum of the regional values is no longer equal to the national total.

The statistical discrepancies appear for all the aggregates at 2005 constant prices by chaining, and therefore, in the results of the regional value added: the user must know that if the sum of the value added at constant prices of the departments is not exactly equal to the national value added, this is due to the application of the new method of chaining the volume indices. Another modification is related to the change of the unit value of transactions as registered in the 2005 base, which changed from millions of pesos to thousands of millions of pesos. Consequently, the value of the productions whose value was less than 500 million pesos disappeared, which simply reflects its lack of macroeconomic importance.

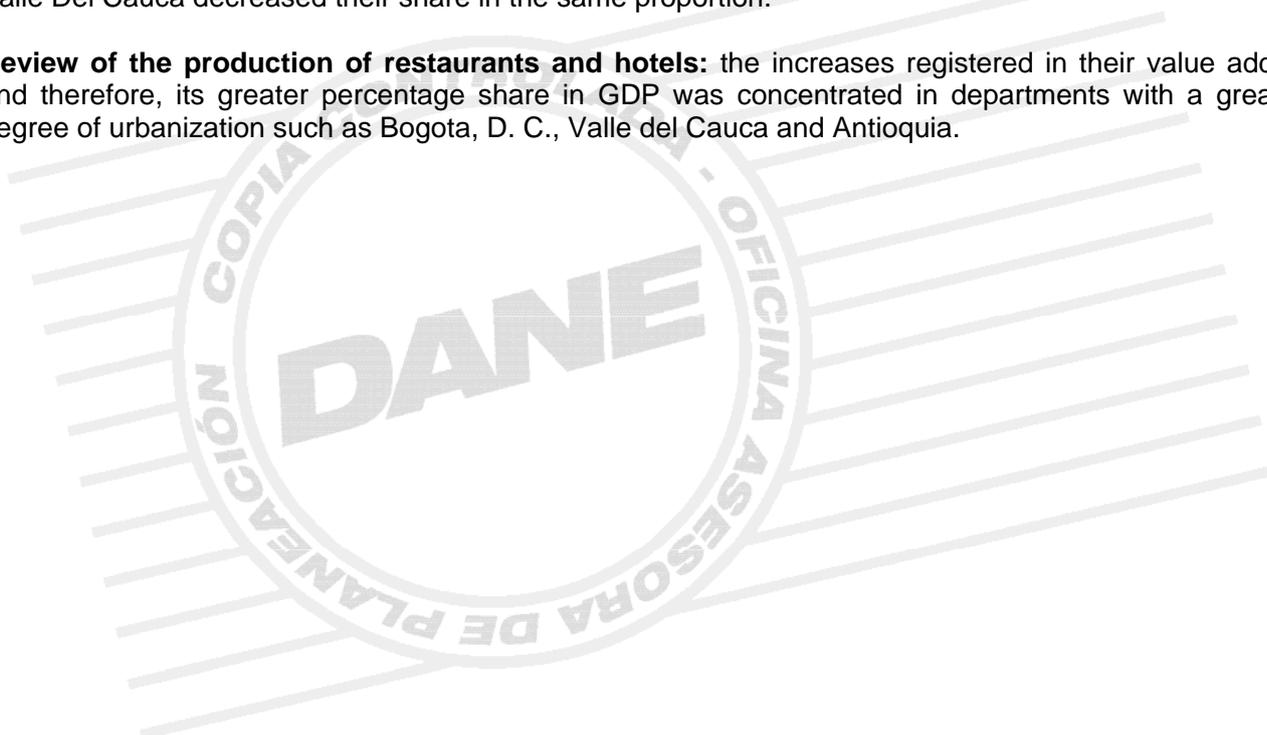
Below, a presentation is made of the incidences of the main changes adopted in the measurement of the 2005 base annual national accounts on the regional economy:

- **The change in the measurement of the transitory crops:** changing from the concept of agricultural year to that of civil year, determined a decrease of production values of some crops such as potatoes, fruit trees, vegetables and bananas. Additionally, at the global level of the activity, the relationship between supply and demand was modified, increasing intermediate consumption and therefore, diminishing the value added. The departments in which these changes had major incidence were: Antioquia, Cundinamarca, Valle del Cauca, Tolima, Boyacá and Santander.
- **Review of the production levels of the forestry activity.** The levels of production of the raw wood and of firewood were reduced, which, therefore, had incidence upon the economic activity. The departments with major incidences were Chocó, Cauca, and Antioquia.
- **Review of the levels of production of crude petroleum and coal leading to a decrease,** it was compensated at the level of the activity through a decrease of intermediate consumption; the major effects in petroleum were reflected in the departments of Casanare, Huila and Meta and for coal in Cesar and Guajira.
- **Review of productive chains,** introduction of new calculations originated in the analysis of the employment matrix, better knowledge of productive characteristics of micro-establishments, better dimensioning of final consumption demand and incorporation of new technical coefficients of

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intermediate consumption: all these innovations modified to a certain extent, both as increase or as reduction, the value added of the manufacturing industry, affecting all the departments more or less in a similar extent.

- **Reduction in the values of FISIM:** This modified the values of production and value added of the financial and insurance activities. The review of FISIM and decrease in the value of the production of financial intermediation services, had its more important effect in Bogota, reducing its share to 1,2%, whereas Antioquia and Valle del Cauca increased their share in the same magnitude as the decrease experienced by Bogota.
- **Review of the values of production of real estate services and dwelling rentals,** from the information of the Dwelling Census 2005, prices of rentals provided by the Household Income and Expenditure Survey (2006-2007) and the review of the level of production of dwellings: This meant a great increase in the share of Bogota, corresponding to 10 percentage points whereas Antioquia and Valle Del Cauca decreased their share in the same proportion.
- **Review of the production of restaurants and hotels:** the increases registered in their value added and therefore, its greater percentage share in GDP was concentrated in departments with a greater degree of urbanization such as Bogota, D. C., Valle del Cauca and Antioquia.



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## 5. CONSTRUCTION OF INDICATORS FOR REGIONAL ACCOUNTS

The present chapter presents some examples of the construction of indicators for some products belonging to the primary, secondary and tertiary sectors (agriculture, cattle farming, mineral coal, manufacturing industry and services of education) in order to show their treatment in regional allocation and calculation of a percentage structure of distribution to be applied to the monetary levels of national accounts.

### 5.1. EXAMPLE OF AGRICULTURE

Agriculture does not present major conceptual nor statistical problems for the regional distribution of its production.

The statistical base is constituted by the production by product, derived from the statistical yearbooks of MADR, which is the main data source used. It provides the information on output by department, in physical volume. Calculation is made for each one of the products.

The following example presents the calculation for the product "tomato", whose code is 020204 in the classification of products of the national accounts 2005 base:

#### 020204 Tomato

- **Step 1: To use an indicator for each product:** For tomato it is "Tons" produced by department, column 1.
- **Step 2: To calculate:** Percentage share in the production by department, column 2
- **Step 3: Allocation of the balance at current prices and/or at previous year constant prices:** it corresponds to the national production in monetary value that is assigned according to share by department in column 2. The basic statistic is the same, when the balances are assigned at current and constant prices because it is a product that is considered as homogenous.

**Table 5. Basic Statistics of the tomato production, according to department**

**2005 Base  
2006**

Departments	Production (Tons)	Share %	Distribution of the balances (Millions of pesos)
National total	436.254	100,0	382
Amazonas	0	0,0	0
Antioquia	41.054	9,4	36
Arauca	0	0,0	0
Atlántico	830	0,1	1
Bogotá D. C.	0	0,0	0
Bolívar	0	0,0	0
Boyacá	28.014	6,4	25

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Caldas	19.977	4,5	17
Caquetá	0	0,0	0
Casanare	0	0,0	0
Cauca	10.412	2,3	9
Cesar	9.703	2,2	8
Chocó	380	0,0	0
Córdoba	330	0,0	0
Cundinamarca	56.193	12,8	49
Guainía	0	0,0	0
Guaviare	0	0,0	0
Huila	30.600	7,0	27
La Guajira	4.925	1,1	4
Magdalena	9.542	2,1	8
Meta	0	0,0	0
Nariño	11.368	2,6	10
Norte de Santander	95.344	21,8	83
Putumayo	96	0,0	0
Quindío	4.868	1,1	4
Risaralda	13.790	3,1	12
San Andrés, Providencia y Santa Catalina	0	0,0	0
Santander	40.308	9,2	35
Sucre	0	0,0	0
Tolima	16.680	3,8	15
Valle del Cauca	41.840	9,5	37
Vaupés	0	0,0	0
Vichada	0	0,0	0

Source: Ministry of Agriculture and Rural Development; DANE, DSCN

## 5. 2. EXAMPLE OF CATTLE FARMING

This is an example of the calculation of the indicator for product 030101: "Bovine Cattle".

The original data are taken from ENA, which correspond to cattle population by department, which is broken down in young bulls, calves and heads of adult cattle. Consequently, it is necessary to standardize these data in terms of LLU.

Equivalences established in terms of LLU are:

*1 LLU = 4 calves*

*1 LLU = 2 young bulls*

*1 LLU = 1 adult*

A male adult weights 420 kilos, whereas an adult female weights 370 kilos.

In order to turn the heads of bovine cattle from each department into tons, it is necessary to homologate the calves and young bulls with the adult bovines as follows:

- **Step 1:** The direct information is taken from ENA, which corresponds to the inventory of bovine cattle by age groups and department (Table 6).

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**Table 6. Inventory of bovine cattle, by sex and age group, according to department.**

**National and Regional Total**

**2005 base year**

**2005**

Departments	Total inventory	Total male and females			Males			Females		
		0-12 months	12-24 months	>24 months	0-12 months	12-24 months	>24 months	0-12 months	12-24 months	<24 months
National total	24.205.556	5.111.607	5.327.735	13.766.214	2.304.755	2.628.886	3.057.241	2.806.852	2.698.849	10.708.974
Amazonas	0	0	0	0	0	0	0	0	0	0
Antioquia	3.017.670	644.160	848.714	1.524.796	260.638	397.950	299.618	383.522	450.764	1.225.178
Arauca	1.176.540	19.726	38.460	1.118.354	7.908	29.581	189.794	11.818	8.879	928.561
Atlántico	221.405	51.296	30.644	139.465	25.967	11.648	15.993	25.329	18.996	123.472
Bogotá, D.C.	0	0	0	0	0	0	0	0	0	0
Bolívar	728.712	195.340	169.109	364.263	83.589	99.941	64.198	111.751	69.168	300.065
Boyacá	1.225.605	319.826	267.807	637.972	147.528	123.340	136.223	172.298	144.467	501.749
Caldas	417.382	96.102	122.046	199.234	44.048	48.551	34.467	52.054	73.495	164.767
Caquetá	934.227	179.982	198.815	555.430	82.487	97.997	190.570	97.495	100.818	364.860
Casanare	1.535.968	300.390	265.692	969.886	138.999	124.270	251.093	161.391	141.422	718.793
Cauca	403.082	86.793	102.763	213.526	41.383	64.482	69.012	45.410	38.281	144.514
Cesar	1.819.810	356.410	380.340	1.083.060	167.969	199.608	303.853	188.441	180.732	779.207
Chocó	252.390	46.938	57.073	148.379	23.880	31.637	25.120	23.058	25.436	123.259
Córdoba	2.327.369	461.383	594.549	1.271.437	212.937	337.833	266.208	248.446	256.716	1.005.229
Cundinamarca	1.442.545	311.900	343.306	787.339	135.167	186.041	195.234	176.733	157.265	592.105
Guainía	0	0	0	0	0	0	0	0	0	0
Guaviare	0	0	0	0	0	0	0	0	0	0
Huila	540.038	140.833	115.860	283.345	65.537	66.316	60.281	75.296	49.544	223.064
La Guajira	449.106	99.282	84.979	264.845	41.874	32.417	42.520	57.408	52.562	222.325
Magdalena	1.575.071	381.467	345.495	848.109	166.809	147.339	115.646	214.658	198.156	732.463



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Meta	1.561.878	322.223	303.638	936.017	155.973	151.520	315.386	166.250	152.118	620.631
Nariño	336.413	89.177	61.951	185.285	32.256	21.305	21.578	56.921	40.646	163.707
Norte de Santander	497.586	106.066	130.611	260.909	50.276	65.720	69.305	55.790	64.891	191.604
Putumayo	0	0	0	0	0	0	0	0	0	0
Quindío	66.336	24.281	34.970	7.085	8.445	17.147	7.046	15.836	17.823	39
Risaralda	115.772	22.887	21.806	71.079	10.277	7.358	20.110	12.610	14.448	50.969
San Andrés, Providencia y Santa Catalina	0	0	0	0	0	0	0	0	0	0
Santander	1.375.916	322.368	325.168	728.380	156.798	163.830	165.559	165.570	161.338	562.821
Sucre	823.869	201.191	155.128	467.550	91.910	42.167	50.826	109.281	112.961	416.724
Tolima	857.110	219.487	196.514	441.109	102.210	96.293	83.836	117.277	100.221	357.273
Valle del Cauca	503.756	112.099	132.297	259.360	49.890	64.595	63.765	62.209	67.702	195.595
Vaupés	0	0	0	0	0	0	0	0	0	0
Vichada	0	0	0	0	0	0	0	0	0	0

Source: Ministry of Agriculture and Rural Development, Farming National Survey (ENA)



- **Step 2:**  $Tons = Total\ calves/4 * (weight\ of\ a\ male\ adult\ bovine) + Total\ young\ bulls/2 * (weight\ of\ a\ male\ adult\ bovine) + Total\ bovine\ adult * (weight\ of\ a\ male\ adult\ bovine)$   
 $Tons = Total\ female\ calves/4 * (weight\ of\ an\ adult\ bovine\ female) + Total\ female\ young\ cows/2 * (weight\ of\ an\ adult\ bovine\ female) Total + adult\ cows * (weight\ of\ an\ adult\ bovine\ female)$

**Table 7. Calculation of the indicator of bovine cattle, by sex and age groups, according to departments.**

**National and Regional Total.**

**2005 Base**

**2005**

Tons

Departments	Total	Total male and females			Males			Females		
		0-12 months	12-24 months	Adults> 24 months	Calves 0-12 months	Young bulls 12-24 months	Adults> 24 months	Calves 0-12 months	Young cows 12-24 months	Adults> 24 months
National Total	6. 799. 345	501. 632	1. 051. 355	5. 246. 358	241. 999	552. 067	1. 284. 038	259. 633	499. 288	3. 962. 320
Total Departments*	5. 913. 091	470. 185	991. 240	4. 451. 666	226. 574	519. 758	1. 098. 866	243. 611	471. 482	3. 352. 800
Antioquia	808. 960	62. 843	166. 961	579. 156	27. 367	83. 570	125. 840	35. 476	83. 391	453. 316
Atlántico	63. 432	5. 070	5. 960	52. 402	2. 727	2. 446	6. 717	2. 343	3. 514	45. 685
Bolivar	190. 885	19. 114	33. 784	137. 987	8. 777	20. 988	26. 963	10. 337	12. 796	111. 024
Boyacá	326. 916	31. 428	52. 627	242. 861	15. 490	25. 901	57. 214	15. 938	26. 726	185. 647
Caldas	108. 673	9. 440	23. 793	75. 440	4. 625	10. 196	14. 476	4. 815	13. 597	60. 964
Caquetá	271. 946	17. 679	39. 230	215. 037	8. 661	20. 579	80. 039	9. 018	18. 651	134. 998
Cauca	111. 623	8. 545	20. 623	82. 455	4. 345	13. 541	28. 985	4. 200	7. 082	53. 470
Cesar	526. 346	35. 068	75. 353	415. 925	17. 637	41. 918	127. 618	17. 431	33. 435	288. 307
Córdoba	647. 518	45. 339	118. 437	483. 742	22. 358	70. 945	111. 807	22. 981	47. 492	371. 935
Cundinamarca	399. 781	30. 541	68. 163	301. 077	14. 193	39. 069	81. 998	16. 348	29. 094	219. 079
Chocó	72. 146	4. 640	11. 350	56. 156	2. 507	6. 644	10. 550	2. 133	4. 706	45. 606
Huila	144. 790	13. 846	23. 092	107. 852	6. 881	13. 926	25. 318	6. 965	9. 166	82. 534
Guajira	126. 357	9. 707	16. 532	100. 118	4. 397	6. 808	17. 858	5. 310	9. 724	82. 260
Magdalena	424. 553	37. 371	67. 600	319. 582	17. 515	30. 941	48. 571	19. 856	36. 659	271. 011
Meta	453. 811	31. 755	59. 961	362. 095	16. 377	31. 819	132. 462	15. 378	28. 142	229. 633
Nariño	90. 281	8. 652	11. 994	69. 635	3. 387	4. 474	9. 063	5. 265	7. 520	60. 572
Norte de Santander	136. 247	10. 440	25. 806	100. 001	5. 279	13. 801	29. 108	5. 161	12. 005	70. 893
Quindío	12. 223	2. 352	6. 898	2. 973	887	3. 601	2. 959	1. 465	3. 297	14
Risaralda	33. 768	2. 245	4. 218	27. 305	1. 079	1. 545	8. 446	1. 166	2. 673	18. 859
Bogotá, D. C.	0	0	0	0	0	0	0	0	0	0
Santander	373. 810	31. 779	64. 252	277. 779	16. 464	34. 404	69. 535	15. 315	29. 848	208. 244
Sucre	225. 047	19. 759	29. 753	175. 535	9. 651	8. 855	21. 347	10. 108	20. 898	154. 188
Tolima	227. 745	21. 580	38. 763	167. 402	10. 732	20. 222	35. 211	10. 848	18. 541	132. 191
Valle del Cauca	136. 233	10. 992	26. 090	99. 151	5. 238	13. 565	26. 781	5. 754	12. 525	72. 370
New departments	886. 254	31. 447	60. 115	794. 692	15. 425	32. 309	185. 172	16. 022	27. 806	609. 520
Amazonas	0	0	0	0	0	0	0	0	0	0
Arauca	433. 058	1. 923	7. 855	423. 280	830	6. 212	79. 713	1. 093	1. 643	343. 567



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Casanare	453.196	29.524	52.260	371.412	14.595	26.097	105.459	14.929	26.163	265.953
Guainía	0	0	0	0	0	0	0	0	0	0
Guaviare	0	0	0	0	0	0	0	0	0	0
Putumayo	0	0	0	0	0	0	0	0	0	0
San Andrés and Providencia	0	0	0	0	0	0	0	0	0	0
Vaupés	0	0	0	0	0	0	0	0	0	0
Vichada	0	0	0	0	0	0	0	0	0	0

\* Traditional departments

Source: DANE, DSCN - Group of regional accounts



- **Step 3:**With the total obtained in tons (last column), the share by department (%) is calculated, and the production corresponding to the product 030101 from national accounts is distributed among departments.

**Table 8. Basic Statistic of the bovine cattle and production, according to departments**

**2005 Base**  
**2006**

Departments	Production (Tons)	Share %	Distribution of the commodity flows (Thousand Millions of pesos)
National total	6.799.345	100,0	4.956
Amazonas	0	0,0	0
Antioquia	808.960	11,9	590
Arauca	433.058	6,3	316
Atlántico	63.432	0,9	46
Bogotá, D.C.	0	0,0	0
Bolívar	190.885	2,8	139
Boyacá	326.916	4,8	238
Caldas	108.673	1,6	79
Caquetá	271.946	4,0	198
Casanare	453.196	6,6	330
Cauca	111.623	1,6	81
Cesar	526.346	7,7	384
Chocó	72.146	1,0	53
Córdoba	647.518	9,5	472
Cundinamarca	399.781	5,8	291
Guainía	0	0,0	0
Guaviare	0	0,0	0
Huila	144.790	2,1	106
La Guajira	126.357	1,8	92
Magdalena	424.553	6,2	309
Meta	453.811	6,6	331
Nariño	90.281	1,3	66
Norte de Santander	136.247	2,0	99
Putumayo	0	0,0	0
Quindío	12.223	0,1	9
Risaralda	33.768	0,5	25
San Andrés, Providencia y Santa Catalina	0	0,0	0
Santander	373.810	5,5	272
Sucre	225.047	3,3	164
Tolima	227.745	3,3	166
Valle	136.233	2,0	99
Vaupés	0	0,0	0
Vichada	0	0,0	0

Source: DANE, DSCN - Group of regional accounts

### 5. 3. EXAMPLE OF THE MANUFACTURING INDUSTRY

The indicator used is the value added by department and industrial subsector according to the national accounts classification, through the use of EAM, consolidating the industry in two great groups of industrial activities: foods, drinks and tobacco, corresponding to industrial activities 10 to 19, and the rest of the industry, the industrial activities 20 to 37.

For small industry, the regional employment of the 2005 Economic Census was used as the distribution indicator for establishments with 9 or less persons employed.



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The regionalization of the value added of the small industry, added to that originating directly from EAM, (establishments with 10 or more persons employed), provides the structure of distribution of the national aggregates.

**Table 9. Manufacturing Industry, distribution, according to department**

**2005 base**

**2005**

Thousands of millions of pesos

Departments	Total Industry	Foods, drinks and tobacco (10-19)	Distribution %	Rest of industries (20-37)	Distribution %
National total	48.082	11.026	100,0	37.056	100,0
Amazonas	5	2	0,0	3	0,0
Antioquia	7.603	1.817	16,5	5.786	15,6
Arauca	54	42	0,4	12	0,0
Atlántico	2.407	646	5,9	1.761	4,8
Bogotá D. C.	11.356	2.168	19,7	9.188	24,8
Bolívar	3.418	136	1,2	3.282	8,9
Boyacá	1.282	205	1,9	1.077	2,9
Caldas	999	357	3,2	642	1,7
Caquetá	65	42	0,4	23	0,1
Casanare	148	104	0,9	44	0,1
Cauca	834	288	2,6	546	1,5
Cesar	261	152	1,4	109	0,3
Chocó	21	5	0,0	16	0,0
Córdoba	272	158	1,4	114	0,3
Cundinamarca	3.653	1.075	9,7	2.578	7,0
Guainía	3	1	0,0	2	0,0
Guaviare	8	3	0,0	5	0,0
Huila	304	146	1,3	158	0,4
La Guajira	39	29	0,3	10	0,0
Magdalena	291	204	1,9	87	0,2
Meta	444	268	2,4	176	0,5
Nariño	334	112	1,0	222	0,6
Norte de Santander	423	98	0,9	325	0,9
Putumayo	24	7	0,1	17	0,0
Quindío	204	94	0,9	110	0,3
Risaralda	795	257	2,3	538	1,5
San Andrés, Providencia y Santa Catalina	9	4	0,0	5	0,0
Santander	6.256	568	5,2	5.688	15,3
Sucre	235	57	0,5	178	0,5
Tolima	694	260	2,4	434	1,2
Valle del Cauca	5.626	1.707	15,5	3.919	10,6
Vaupés	1	1	0,0	0	0,0
Vichada	14	13	0,1	1	0,0

Source: DANE, DSCN - Group of regional accounts.



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### 5. 4. EXAMPLE OF MINERAL COAL

The production of mineral thermal coal (060001) is also known as open-cast mining operations (by the form of its operation which is outdoors and not subterranean); it is characterized for being a highly technified operation; in Colombia this type of operation, according to UPME, is located in the Atlantic coast region. The cavern mining coal production is also known as subterranean mining operations, characterized for being a type of traditional, less technified mining; known as coal coking, in Colombia, according to the source, this type of operation is located in the central part of the country. The lignite and peat are an intermediate fuel, also known as metallurgical coal, because of its use in coke processes; it is also included in product 060001 and its production is located in the departments of Boyacá, Cundinamarca and Norte de Santander. The productions of Antioquia and Valle are exclusively of cavern coal; for the rest of the departments of the interior, 30% correspond to thermal coal and the remaining 70% corresponds to coal coking.

With respect to product 060003, which corresponds to the services related to the mineral production; the data is obtained from a percentage of the production in tons of the thermal coal (060001), percentage provided by the Group of Goods and Services of national accounts.

The mineral coal includes the following products:

060001 Thermal and coking coals

060003 Services related to the production of mineral coal

**Table 10. Basic Statistic of the thermal coal and coking and services of the coal, distribution of supply at current prices according to departments.**

#### 2005 base year

#### 2005

Department	Thermal and coking coal - 060001				Services related to coal- 060003			
	Basic statistics (Thousands of tons)	Share %	Production Thousands of millions of pesos	Value added	Basic statistics (Thousands of tons)	Share %	Production Thousands of millions of pesos	Value added
National total	59.064	100,0	6.118	4.721	59.064	100,0	90	
Amazonas	0	0,0	0	0	0	0,0	0	
Antioquia	71	0,0	7	6	71	0,0	0	
Arauca	0	0,0	0	0	0	0,0	0	
Atlántico	0	0,0	0	0	0	0,0	0	
Bogotá, D.C.	0	0,0	0	0	0	0,0	0	
Bolívar	0	0,0	0	0	0	0,0	0	
Boyacá	1.280	2,0	133	102	1.280	2,0	2	
Caldas	0	0,0	0	0	0	0,0	0	
Caquetá	0	0,0	0	0	0	0,0	0	
Casanare	0	0,0	0	0	0	0,0	0	
Cauca	1	0,0	0	0	1	0,0	0	
Cesar	27.710	47,0	2.870	2.215	27.710	47,0	42	
Chocó	0	0,0	0	0	0	0,0	0	
Córdoba	183	0,0	19	15	183	0,0	0	
Cundinamarca	1.176	2,0	122	94	1.176	2,0	2	
Guainía	0	0,0	0	0	0	0,0	0	
Guaviare	0	0,0	0	0	0	0,0	0	



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Huila	0	0,0	0	0	0	0,0	0
La Guajira	27.180	46,0	2.815	2.172	27.180	46,0	41
Magdalena	0	0,0	0	0	0	0,0	0
Meta	0	0,0	0	0	0	0,0	0
Nariño	0	0,0	0	0	0	0,0	0
Norte de Santander	1.404	2,0	145	112	1.404	2,0	2
Putumayo	0	0,0	0	0	0	0,0	0
Quindío	0	0,0	0	0	0	0,0	0
Risaralda	0	0,0	0	0	0	0,0	0
San Andrés y Providencia	0	0,0	0	0	0	0,0	0
Santander	27	0,0	3	2	27	0,0	0
Sucre	0	0,0	0	0	0	0,0	0
Tolima	0	0,0	0	0	0	0,0	0
Valle	31	0,0	3	2	31	0,0	0
Vaupés	0	0,0	0	0	0	0,0	0
Vichada	0	0,0	0	0	0	0,0	0

Source: Ministry of Mines and Energy, UPME Bulletin; DANE, DSCN – Group of Regional Accounts

**Table 11. Calculation of the value added of activity 06 at current prices, according to departments.**

**2005 base year**

**2005**

Thousands of millions of pesos

Department	Value added			
	Total	VA adjusted according to anual national level	Thermal and coking coal	Services related to coal
National total	4.790	4.806	4.721	69
Amazonas	0	0	0	0
Antioquia	6	6	6	0
Arauca	0	0	0	0
Atlántico	0	0	0	0
Bogotá, D.C.	0	0	0	0
Bolívar	0	0	0	0
Boyacá	104	104	102	2
Caldas	0	0	0	0
Caquetá	0	0	0	0
Casanare	0	0	0	0
Cauca	0	0	0	0
Cesar	2.247	2.254	2.215	33
Chocó	0	0	0	0
Córdoba	15	15	15	0
Cundinamarca	95	96	94	1
Guainía	0	0	0	0
Guaviare	0	0	0	0
Huila	0	0	0	0
La Guajira	2.204	2.212	2.172	32
Magdalena	0	0	0	0
Meta	0	0	0	0
Nariño	0	0	0	0
Norte de Santander	114	114	112	2
Putumayo	0	0	0	0



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Quindío	0	0	0	0
Risaralda	0	0	0	0
San Andrés, Providencia y Santa Catalina	0	0	0	0
Santander	2	2	2	0
Sucre	0	0	0	0
Tolima	0	0	0	0
Valle del Cauca	3	3	2	0
Vaupés	0	0	0	0
Vichada	0	0	0	0

Valor added - production matrix activity 06

4.806

Source: DANE, DSCN-Group of Regional Accounts





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### GLOSSARY

<b>Annual Chaining</b>	Annual chaining is simply the limiting case in which rebasing is carried out each year instead of every five or ten years.
<b>Annual change</b>	Percentage change calculated between the current year and the previous year.
<b>Annual regional share</b>	It is the annual percentage relation calculated between the total value of a variable by department and the national total.
<b>Base year</b>	Period of time for which levels and structures of the system are calculated and updated. All tasks are made in order to calculate, in absolute values, every variable and account of the system for this particular year. Also the definitions, concepts, classifications and calculation methods are reviewed for this year. The base year is the reference point to perform the series of accounts for previous and following years.
<b>Current year</b>	This is the current year on which every calculation is being made for regional accounts.
<b>Economic Activity</b>	An activity is a process, i.e. the combination of actions that result in a certain set of products.
<b>Final data</b>	It is the data in its final version.
<b>GDP according to the production approach</b>	<p>It is equal to the sum of gross value added of resident production units, plus taxes less subsidies on products. It is necessary to add these taxes because the production is calculated at basic prices.</p> <p><i><math>GDP = \Sigma VA \text{ of economic activities at basic prices} + \text{levies and taxes on imports} + \text{Non-deductible VAT} + \text{taxes on products (except taxes on imports and non-deductible VAT)} - \text{subsidies on product.}</math></i></p> <p>Production does not include: goods from natural processes: reproduction and growth of fishes from the sea, rivers, lakes, etc.; the growth of wild forests; the production of services provided by household members for their own consumption, such as childcare services, care for the sick, housekeeping, etc.</p>
<b>Gross Domestic Product (GDP)</b>	GDP represents the final result of an economic activity of resident production units. It is measured through three methods: supply; final demand or final uses of goods and services; and primary incomes distributed by resident production units.
<b>Institutional unit</b>	An institutional unit is an economic entity that is capable, in its own right, of owning assets, incurring liabilities and engaging in economic activities and in transactions with other entities.



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<b>Per capita regional GDP</b>	Indicator used to establish the average economic production by inhabitant, corresponding to each department.
<b>Preliminary data (pr)</b>	This data is a summarized advance of the results of regional accounts, using the available and compiled information.
<b>Production</b>	Production is an “activity, carried out under the responsibility, control and management of an institutional unit, which uses inputs of labor, capital, and goods and services to produce outputs of goods or services”. <sup>9</sup>
<b>Provisional data (p)</b>	Refers to the data resulting from using the methodology and statistical approach for the year of reference <i>n</i> . In order to obtain provisional data the information used is the one available in the publication date. These data can be modified into a final version.
<b>Reference year</b>	It represents the year whose regional economic behavior is under study.
<b>Regional economy</b>	It is the group of transactions made by regional institutional units located at the geographical areas delimited according to the current administrative political division of Colombia.
<b>Regional GDP</b>	Indicator used to establish the economic behavior of the departments; it measures the productive activity of the units residing in the department.
<b>Regional territory</b>	It comprises the geographical areas delimited according to the current administrative political division of Colombia, including free trade zones which operate in those regions.
<b>Statistical discrepancy</b>	For each variable, the statistical discrepancy is equal to the difference between the value of an aggregate at constant prices by chaining and the value of the sum of its components in the same price system. It appears every time that the value of a variable “at constant prices by chaining” is contrasted with the sum or difference of its components “at constant prices by chaining”.
<b>Subsidies</b>	Subsidies are current unrequited payments that government units, including non-resident government units, make to enterprises on the basis of the levels of their production activities or the quantities or values of the goods or services that they produce, sell or import.
<b>Taxes on products</b>	A tax on product is a tax that is payable per unit of quantity or of value of a given good or service.
<b>Value added (VA)</b>	It is the greater value generated in the production process due to factor combination. It is calculated as the difference between the value of gross production (P) and intermediate consumption (IC). $VA = P - IC$

<sup>9</sup>SNA 1993 6:15



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## Values at constant prices by chaining

National accounts at constant prices are measurements from which the effect of the price changes is removed. In the 2005 base, the chaining principle was adopted in annual calculations, in order to calculate the accounts at constant prices. This means that measurements at constant prices by chaining for year  $n$  are equal to the values of year  $(n-1)$  by chaining multiplied by the volume index of year  $n$  with relation to year  $n-1$ .

## Values at current prices

It is the expression of values at prices of the reference year  $n$ .



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<sup>a</sup>The translation of the bibliographic titles is for reference purposes only.



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# ANNEXES

## Annex A. Classification of products, National Accounts 2005 base year

2005

CODE

DESCRIPTION

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<b>01</b>	<b>Products of coffee from agriculture</b>
<b>0100</b>	<i>Products of coffee from agriculture</i>
010001	Parchment coffee and pasilla beans
010002	Coffee tree
<b>02</b>	<b>Other agricultural products</b>
<b>0201</b>	<i>Cereals</i>
020101	Wheat and meslin
020102	Maize (corn)
020103	Rice, not husked
020104	Barley
020199	Rye and oats grains, sorghum grains and other cereals
<b>0202</b>	<i>Vegetables, legumes, root vegetables and tubers</i>
020201	Potatoes
020202	Fresh and dried leguminous vegetables
020204	Tomato
020205	Other vegetables, fresh or chilled n.e.c (onion, garlic, beet, mushrooms, etc.)
020207	Cassava
020299	Other edible roots and tubers with high starch or inulin content
<b>0203</b>	<i>Fresh fruits and nuts</i>
020301	Fresh bananas
020302	Fresh plantains
020303	Citrus fruits (lemon, mandarin and other citric ones (grapefruit, tangelo, etc.))
020399	Other fresh fruits and nuts; Coconuts, pineapples, figs, mangoes, guavas, fresh or dried
<b>0204</b>	<i>Oil seeds and oleaginous fruit</i>
020401	Oil palm nut
020403	Soya bean
020499	Other oil seeds and oleaginous fruits
<b>0205</b>	<i>Living plants; cut flowers and flower buds; flower seeds and fruit seeds; vegetable seeds</i>
020501	Roses
020502	Carnations
020503	Dahlia; orchids and other cut flowers
020599	Living plants: Flower buds, and seeds of flower, fruits and vegetables
<b>0206</b>	<i>Beverage and spice crops</i>
020601	Cocoa beans, raw or roasted
020699	Other beverage crops and spices, whether or not processed
<b>0207</b>	<i>Unmanufactured tobacco</i>
020700	Unmanufactured tobacco
<b>0208</b>	<i>Sugar cane</i>
020800	Sugar cane
<b>0209</b>	<i>Raw vegetable material n.e.c.</i>
020901	Ginned cotton
020999	Other raw vegetable material n.e.c.



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CODE	DESCRIPTION
<b>0210</b>	<i>Plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes</i>
021001	Coca leaf
021002	Opium poppy and marijuana
021099	Other plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes
<b>0211</b>	<i>Developing areas and other services related to agricultural production</i>
021101	African palm plantations
021102	Sugar cane plantations
021103	Orchards, cultivated grassland and others
021104	Aerial spraying
021105	Cotton ginning
021199	Other services related to agriculture
<b>03</b>	<b>Live animals, animal products and products from hunting</b>
<b>0301</b>	<i>Bovine cattle and its by-products</i>
030101	Bovine cattle, live
030102	Raw milk and milk cream
<b>0302</b>	<i>Poultry live and its by-products</i>
030201	Poultry, live
030202	Eggs, in shell, fresh, preserved, cooked or embryonated
<b>0303</b>	<i>Swine, and other animals, live; by-products and services related to animal farming</i>
030301	Swine, live
030302	Sheep and goats, horses, asses, mules and hinnies, live
030303	Other live animals, raised or captured, n.e.c.; other by-products whether edible or not
030304	Veterinary services and other animal husbandry services
<b>04</b>	<b>Forestry and logging products and related services</b>
<b>0400</b>	<i>Forestry and logging products and related services</i>
040001	Logs of wood
040002	Fuel wood
040003	Planted forests; by-products related to forestry (natural rubber, plant resins, cork, etc.)
040004	Protective planted forests
040005	Services related to forestry
<b>05</b>	<b>Fishing products, fish farming and related services</b>
<b>0501</b>	<i>Fishes, live, fresh or chilled</i>
050101	Saltwater fishes, live, fresh or chilled
050102	Freshwater fishes, live, fresh or chilled
<b>0502</b>	<i>Crustaceans; oysters; other aquatic invertebrates; other aquatic products</i>
050200	Crustaceans; oysters; other aquatic invertebrates; other aquatic products
<b>0503</b>	<i>Services related to fishing and fish farming</i>
050300	Services related to fishing and fish farming
<b>06</b>	<b>Mineral coal</b>
<b>0600</b>	<i>Mineral coal</i>



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CODE	DESCRIPTION
060001	Mineral coal
060003	Services related to coal mining
<b>07</b>	<b>Crude petroleum, natural gas and uranium and thorium minerals</b>
<b>0700</b>	<i>Crude petroleum, natural gas and uranium and thorium minerals</i>
070001	Crude petroleum
070002	Natural gas and other energy sources (uranium and thorium)
070003	Services related to petroleum and natural gas extraction, except those of prospection
<b>08</b>	<b>Metallic ores</b>
<b>0801</b>	<i>Common ores</i>
080101	Iron ores and concentrates
080102	Copper
080103	Nickel ores and concentrates (ferronickel)
080104	Aluminum and other metallic ores
<b>0802</b>	<i>Precious metal ores</i>
080201	Ores mainly composed of gold
080202	Platinum ores
080203	Silver ores
<b>09</b>	<b>Non-metallic ores</b>
<b>0901</b>	<i>Monumental or building rock or stone</i>
090100	Monumental or building rock or stone
<b>0902</b>	<i>Evaporites</i>
090201	Rock Salt
090202	Sea Salt
<b>0903</b>	<i>Non-metallic ores for industrial uses</i>
090300	Non-metallic ores for industrial uses
<b>0904</b>	<i>Emeralds and other precious and semiprecious stones</i>
090400	Emeralds and other precious and semiprecious stones
<b>0905</b>	<i>Services related to mining except those related to oil and natural gas</i>
090500	Services related to mining except those related to oil and natural gas
<b>10</b>	<b>Meat and fish</b>
<b>1001</b>	<i>Meat and edible offal, except fish and sea products; raw hides and skins of bovine and equine animals, sheep or lambs, goats or kids</i>
100101	Meat of bovine animals, fresh or chilled
100102	Swine meat, fresh or chilled
100103	Meat of ovine, goat and other animals, fresh or chilled
100104	Edible offal of bovine, swine, and other animals, fresh or chilled
100105	Hides and skins of bovine, sheep, goat, equine and other animals
100106	Meat and edible offal of poultry and other meats, fresh or chilled
100108	Preserves and preparations of meat
<b>1002</b>	<i>Fish and sea products</i>
100201	Fish fillets; fish, dried, salt or smoked



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CODE	DESCRIPTION
100202	Crustaceans, frozen; mollusks and other aquatic invertebrates, frozen, dried, salted or in brine
100203	Flours, meals and pellets, inedible, of fish, crustaceans, mollusks or other aquatic invertebrates
<b>1003</b>	<i>Slaughter, slaughterhouse and other services related to manufacturing of meat and fish, on a fee or contract basis</i>
100300	Slaughter, slaughterhouse and other services related to manufacturing of meat and fish, on a fee or contract basis
<b>11</b>	<b>Animal and vegetable oils and fats</b>
<b>1100</b>	<i>Animal and vegetable oils and fats</i>
110001	Fats of bovine animals, sheep, goats, pigs and poultry, raw or rendered; wool grease
110003	Raw vegetable oils
110004	Refined vegetable oils
110005	Margarine and analogue products
110006	Palm kernel, linters, flours and meals of oil seeds or vegetable waxes
110007	Services related to animal and vegetable oils and fats
<b>12</b>	<b>Dairy products</b>
<b>1200</b>	<i>Dairy products</i>
120001	Pasteurized and ultra-pasteurized milk
120002	Concentrated milk and cream in solid forms
120003	Cheese and curd
120004	Yoghurt and other fermented milk
120005	Butter and other fats and oils derived from milk or cream
120006	Other dairy products
120007	Services related to the elaboration of dairy products
<b>13</b>	<b>Grain mill products, starches and starch products</b>
<b>1301</b>	<i>Grain mill products, starches and starch products</i>
130101	Flour from wheat or other cereal, meal or groats
130102	Milled rice (polished or white) semi- or wholly-milled; mixes for bakery
130103	Other vegetable flours and meals; and mixes for bakery
130104	Starches and starch products; sugars and sugar syrups n.e.c.
130105	Preparations used in animal feeding
<b>1302</b>	<i>Bakery products and pasta</i>
130201	Bakery products and pasta
130202	Macaroni, noodles, and similar farinaceous products
<b>1303</b>	<i>Services related to the elaboration of grain mill products, starches and its products</i>
130300	Services related to the elaboration of grain mill products, starches and its products
<b>14</b>	<b>Milled coffee and other coffee products</b>
<b>1401</b>	<i>Coffee milling services</i>
140101	Milling on a fee or contract basis
140102	Green coffee
<b>1402</b>	<i>Industrial products of coffee</i>
140201	Roasted or non-roasted coffee, decaffeinated or not, in grains or ground
140202	Instant coffee and substitutes and coffee extract
140203	Other services related to the elaboration of coffee products



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CODE	DESCRIPTION
<b>15</b>	<b>Sugar and panela</b>
<b>1500</b>	<i>Sugar and panela</i>
150001	Raw cane or beet sugar, refined or not
150002	Panela
150003	Honey and molasses
150004	Services related to the elaboration and refining of sugar and panela
<b>16</b>	<b>Cocoa, chocolate and sugar confectionery</b>
<b>1601</b>	<i>By-products of cocoa, cocoa and chocolate</i>
160100	By-products of cocoa, cocoa and chocolate
<b>1602</b>	<i>Sugar confectionery with or without chocolate</i>
160200	Sugar confectionery with or without chocolate
<b>1603</b>	<i>Services related to the elaboration of cocoa, chocolate and sugar confectionery</i>
160300	Services related to the elaboration of cocoa, chocolate and sugar confectionery
<b>17</b>	<b>Food products n.e.c.</b>
<b>1701</b>	<i>Vegetables and fruits; prepared or preserved</i>
170101	Vegetables; frozen, dehydrated; canned or preserved
170102	Fruit and vegetables juices
170103	Fruits and nuts; dried, boiled or not, roasted or salted peanuts; fruit pulp and other preserved fruits
170104	Jams, fruit jellies and fruit or nut puree and pastes
<b>1702</b>	<i>Other food products</i>
170201	Homogenized preparations of meat, vegetables, fruit or nuts; preparations of milk, flour, meal, starch or malt extract, for infant use n.e.c.; homogenized composite food preparations
170202	Soups and broths and preparations thereof
170203	Sauces; mixed condiments; and other
170299	Other food products n.e.c. juices and vegetable extracts
<b>1703</b>	<i>Services related to the elaboration of other food products n.e.c.</i>
170300	Services related to the elaboration of other food products n.e.c.
<b>18</b>	<b>Beverages</b>
<b>1801</b>	<i>Alcoholic beverages and ethyl alcohol</i>
180101	Ethyl alcohol and other alcohols
180102	Aguardiente and rum
180103	Other distilled alcoholic beverages (Whiskey, Brandy, Gin, Vodka, etc.)
180105	Wine of fresh grapes, cider and other fermented beverages
<b>1802</b>	<i>Beer, malt liquors and mixes based on beer or malt</i>
180200	Beer, malt liquors and mixes based on beer or malt
<b>1803</b>	<i>Non-alcoholic beverages</i>
180301	Carbonated soft drinks, waters (including mineral and aerated waters) and other non-alcoholic beverages; ice and snow
180303	Services related to beverage manufacture
<b>19</b>	<b>Tobacco products</b>
<b>1900</b>	<i>Tobacco products</i>
190000	Tobacco products (cigars, cigarillos and cigarettes of tobacco or tobacco substitutes)



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CODE	DESCRIPTION
<b>20</b>	<b>Natural textile fibers; yarn and thread; woven and tufted textile fabrics</b>
<b>2001</b>	<i>Natural textile fibers prepared for spinning</i>
200100	Natural textile fibers prepared for spinning
<b>2002</b>	<i>Staple artificial fibers, manufacture for textile yarn</i>
200200	Staple artificial fibers, manufacture for textile yarn
<b>2003</b>	<i>Yarn and thread</i>
200301	Natural and synthetic fibers yarn and thread; man-made or stapled fibers
200302	Cotton yarns and threads
<b>2004</b>	<i>Woven textile fabrics</i>
200401	Cotton and natural fibers fabrics other than cotton
200403	Man-made filaments or staple fibers; special fabrics
<b>2005</b>	<i>Services related to yarn and fabrics manufacturing; on a fee or contract basis</i>
200500	Services related to yarn and fabrics manufacturing; on a fee or contract basis
<b>21</b>	<b>Textile articles other than apparel</b>
<b>2100</b>	<i>Textile articles other than apparel</i>
210001	Bed linen, blankets, table linen, towels, kitchen linen, sleeping bags, curtains and other furnishing articles n.e.c.
210002	Other made-up textile articles
210003	Carpets and other floor coverings; textile articles n.e.c.
210004	Services related to textile articles manufacturing; on a fee or contract basis
<b>22</b>	<b>Knitted and crocheted fabrics; wearing apparel</b>
<b>2201</b>	<i>Knitted or crocheted fabrics</i>
220100	Knitted or crocheted fabrics
<b>2202</b>	<i>Wearing apparel, except fur apparel</i>
220201	Panty hose, stockings, socks and similar
220202	Wearing apparel of yarn, knitted or crocheted
220203	Wearing apparel of yarn, other than knitted or crocheted
220204	Brassieres, corsets, suspenders and similar articles, whether or not knitted or crocheted
220205	Apparel and clothing accessories, of other materials
<b>2203</b>	<i>Tanned or dressed furskins and artificial fur; articles thereof (except headgear)</i>
220300	Tanned or dressed furskins and artificial fur; articles thereof (except headgear)
<b>2204</b>	<i>Services related to knitted fabrics and wearing apparel, on a fee or contract basis</i>
220400	Services related to knitted fabrics and wearing apparel, on a fee or contract basis
<b>23</b>	<b>Tanned or dressed leather; leather products and footwear</b>
<b>2301</b>	<i>Tanned leather; composition leather</i>
230100	Tanned leather; composition leather
<b>2302</b>	<i>Leather products and footwear</i>
230201	Luggage, handbags and the like, of leather, travel sets for personal toilet, sewing or shoe or clothes cleaning, of leather
230202	Footwear, with outer soles and uppers of rubber or plastics, or with uppers of leather or textile materials, (other than sports footwear, footwear incorporating a protective metal toe-cap, skating boots and miscellaneous special footwear)



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CODE	DESCRIPTION
230203	Sports footwear, (except skating boots)
230204	Parts of footwear; removable in-soles, heel cushions and similar articles; gaiters, leggings and similar articles, and parts thereof
230205	Services related to leather manufacture, leather products and footwear, on a fee or contract basis
<b>24</b>	<b>Products of wood, cork, straw and plaiting materials</b>
<b>2401</b>	<i>Wood, sawn or chipped, continuously shaped, in the rough or treated</i>
240100	Wood, sawn or chipped, continuously shaped, in the rough or treated
<b>2402</b>	<i>Other wood products</i>
240201	Boards and panels; Veneer sheets; sheets for plywood; densified wood
240202	Builders' joinery and carpentry of wood
240299	Other products made with wood, cork, plaiting materials or husks
<b>2403</b>	<i>Services related to the elaboration of wood and wood products, on a fee or contract basis.</i>
240300	Services related to the elaboration of wood and wood products, on a fee or contract basis
<b>25</b>	<b>Paper products, paperboard and its products</b>
<b>2500</b>	<i>Products of wood, cork, straw and plaiting materials</i>
250001	Pulps of wood or other fibrous cellulosic material
250002	Paper and elaborated paperboard; and other uncoated paper and paperboard
250003	Paper and paperboard products
250004	Services related to paper manufacture and paper products on a fee or contract basis
<b>26</b>	<b>Printed matters and analogous products</b>
<b>2601</b>	<i>Books, brochures and leaflets printed, printed maps; music</i>
260100	Books, brochures and leaflets printed, printed maps; music
<b>2602</b>	<i>Newspapers, journals and periodicals; other printed material</i>
260201	Newspapers, journals and periodicals; other printed material
260299	Other printed materials
<b>2603</b>	<i>Composed type, prepared printing plates or cylinders, or other impressed media for use in printing</i>
260300	Composed type, prepared printing plates or cylinders, or other impressed media for use in printing
<b>2604</b>	<i>Editorial; printing and reproduction services on a fee or contract basis</i>
260400	Editorial; printing and reproduction services on a fee or contract basis
<b>27</b>	<b>Refined petroleum products; nuclear fuel</b>
<b>2701</b>	<i>Coke and semi-coke of coal, of lignite or of peat; retort carbon; mineral tars</i>
270100	Coke and semi-coke of coal, of lignite or of peat; retort carbon; mineral tars
<b>2702</b>	<i>Refined petroleum products</i>
270201	Gasoline and other fuels
270202	Other light petroleum oils and light oils obtained from bituminous mineral and oils obtained from bituminous mineral; other heavy petroleum oils
270203	Kerosene; gas oils and fuel oils
270205	Petroleum gas and other gas hydrocarbons
270206	Petroleum jelly; paraffin wax and other products from petroleum and bituminous mineral
<b>2703</b>	<i>Uranium and other nuclear fuels</i>
270300	Uranium and other nuclear fuels



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CODE	DESCRIPTION
<b>2704</b>	<i>Manufacturing services related with coke, refined petroleum product and nuclear fuel</i>
270400	Manufacturing services related with coke, refined petroleum product and nuclear fuel
<b>28</b>	<b>Chemical substances and products</b>
<b>2801</b>	<i>Basic chemicals</i>
280101	Basic organic chemicals
280102	Basic inorganic chemicals n.e.c.
280103	Tanning or dyeing extracts; tannins and their derivatives; coloring matters, etc.
280104	Activated natural mineral products and Miscellaneous basic chemical products
280105	Fertilizers and pesticides
280106	Plastics in primary forms
280107	Synthetic rubber and factice
<b>2802</b>	<i>Other chemical products; man-made fibers</i>
280201	Paints and varnishes and related products
280202	Pharmaceutical products
280203	Soap, cleaning preparations, perfumes and toilet preparations
280204	Chemical products n.e.c.
280205	Man-made fibers
<b>2803</b>	<i>Chemical products of illegal use</i>
280301	Cocaine
280302	Heroin
<b>2804</b>	<i>Services related to the manufacture of chemical substances and products on a fee or contract basis</i>
280400	Services related to the manufacture of chemical substances and products on a fee or contract basis
<b>29</b>	<b>Rubber and plastics products</b>
<b>2901</b>	<i>Rubber tires and tubes</i>
290100	Rubber tires and tubes
<b>2902</b>	<i>Other rubber products, semi-manufactures of plastics, packaging products of plastics and other plastic products</i>
290201	Other rubber products
290202	Semi-manufactures of plastics
290203	Packaging products of plastics
290204	Other plastic products
<b>2903</b>	<i>Services related to rubber and plastic products manufacture on a fee or contract basis</i>
290300	Services related to rubber and plastic products manufacture on a fee or contract basis
<b>30</b>	<b>Non-metallic mineral products</b>
<b>3001</b>	<i>Glass and glass products; ceramic ware and refractory products</i>
300101	Glass and glass products
300102	Non-structural ceramic articles
300103	Refractory products and structural non-refractory clay products
<b>3002</b>	<i>Cement and other non-mineral products n.e.c.</i>
300201	Cement, lime and plaster
300202	Articles of concrete, cement and plaster
300203	Monumental or building stone and articles thereof; other non-metallic mineral products n.e.c.



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CODE	DESCRIPTION
<b>3003</b>	<i>Services related to non-metallic mineral products manufacture, on a fee or contract basis</i>
300300	Services related to non-metallic mineral products manufacture, on a fee or contract basis
<b>31</b>	<b>Basic metals, fabricated metal products, except machinery and equipment</b>
<b>3101</b>	<i>Basic metals</i>
310101	Basic iron and steel
310102	Hot or cold-rolled, drawn and folded products of iron and steel
310103	Precious metal ores and concentrates
310104	Semi-finished products of copper, nickel, aluminum, lead, zinc and tin or their alloys
<b>3102</b>	<i>Fabricated metal products, except machinery and equipment</i>
310201	Structural metal products and parts thereof
310202	Tanks, reservoirs and containers of iron, steel or aluminum; steam generators, and parts thereof
310299	Other fabricated metal products
<b>3103</b>	<i>Services related to the elaboration and repair of metal products, except machinery and equipment</i>
310301	Services related to the elaboration and repair of metal products, except machinery and equipment
310302	Services related to the elaboration and repair of metal products, except machinery and equipment on a fee or contract basis
<b>32</b>	<b>Machinery and equipment</b>
<b>3201</b>	<i>General purpose machinery</i>
320101	Internal combustion piston engines
320102	Pumps, compressors, hydraulic engines, and parts thereof
320103	Bearings, gears, gearing and driving elements, and parts thereof
320104	Ovens and furnace burners and parts thereof
320105	Lifting and handling equipment and parts thereof
320199	Other general purpose machinery and parts thereof
<b>3202</b>	<i>Special purpose machinery</i>
320201	Agricultural or forestry machinery and parts thereof
320202	Machine-tools and parts and accessories thereof
320203	Machinery for metallurgy and parts thereof
320204	Machinery for mining, quarrying and construction, and parts thereof
320205	Machinery for food, beverage and tobacco processing, and parts thereof
320206	Machinery for textile, apparel and leather production, and parts thereof
320207	Weapons and ammunition and parts thereof
320208	Domestic appliances and parts thereof
320299	Other special purpose machinery and parts thereof
<b>3203</b>	<i>Maintenance and repair services of fabricated metal products, machinery and equipment on a fee or contract basis</i>
320300	Maintenance and repair services of fabricated metal products, machinery and equipment on a fee or contract basis.
<b>33</b>	<b>Other machinery; electrical machinery and apparatus</b>
<b>3301</b>	<i>Office, accounting and computing machinery</i>
330101	Office and accounting machinery, and parts and accessories thereof
330102	Computing machinery and parts and accessories thereof
<b>3302</b>	<i>Electrical machinery and apparatus</i>



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CODE	DESCRIPTION
330201	Electric motors, generators and transformers, and parts thereof
330202	Electricity distribution and control apparatus, and parts thereof
330203	Insulated wire and cable; optical fiber cables
330204	Accumulators, primary cells and primary batteries, and parts thereof
330205	Electric filament or discharge lamps; arc lamps; lighting equipment; parts thereof
330299	Other electrical equipment and parts thereof
<b>3303</b>	<i>Radio, television and communication equipment and apparatus</i>
330301	Electronic components; electronic valves and tubes; parts thereof
330302	Television and radio transmitters and apparatus for line telephony or telegraph
330303	Radio broadcast and television receivers; apparatus for sound and video recording and reproducing; microphones, loudspeakers, amplifiers, etc.
330304	Parts for radio, television and communication equipment and apparatus
330305	Audio and video records and tapes
<b>3304</b>	<i>Medical appliances, precision and optical instruments, watches and clocks</i>
330401	Medical and surgical equipment and orthopedic appliances
330402	Instruments and appliances for measuring, checking, testing, navigating; industrial process control equipment; parts and accessories thereof
330403	Optical instruments and photographic equipment, and parts and accessories thereof
330404	Watches and clocks, and parts thereof
<b>3305</b>	<i>Services related to the manufacture and repair of these instruments</i>
330500	Services related to the manufacture and repair of these instruments
<b>34</b>	<b>Transport equipment</b>
<b>3401</b>	<i>Motor vehicles, bodies, trailers and semi-trailers; parts and accessories thereof</i>
340101	Special purpose motor vehicles; road motor units; crane lorries; bodies; trailers and semi-trailers and containers
340102	Public-transport type passenger motor vehicles
340103	Motor vehicles, for the transport of persons (private)
340104	Motor vehicles n.e.c. for the transport of goods
340105	Parts and accessories of motor vehicles
<b>3402</b>	<i>Other transport equipment and parts thereof</i>
340203	Aircraft and spacecraft, and parts thereof
340204	Motorcycles, bicycles and parts thereof
340299	Ships; railway and tramway locomotives and rolling stock, other transport equipment n.e.c. and parts thereof
<b>3403</b>	<i>Services related to transport equipment manufacturing and repair</i>
340301	Services related to transport equipment manufacturing
340302	Services related to transport equipment repair on a fee or contract basis
<b>35</b>	<b>Furniture</b>
<b>3501</b>	<i>Furniture</i>
350100	Furniture
<b>3502</b>	<i>Furniture manufacturing services</i>
350200	Furniture manufacturing services
<b>36</b>	<b>Other manufactured goods n.e.c.</b>



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CODE	DESCRIPTION
<b>3601</b>	<i>Jewelry and related articles</i>
360100	<i>Jewelry and related articles</i>
<b>3602</b>	<i>Other industrial goods</i>
360201	Music instruments
360202	Sports articles
360203	Games and toys; Roundabouts, swings, shooting galleries and other fairground amusements
360204	Prefabricated constructions
<b>3603</b>	<i>Services related to the manufacture of other articles n.e.c. on a fee or contract basis</i>
360300	Services related to the manufacture of other articles n.e.c. on a fee or contract basis
<b>37</b>	<b>Wastes or scraps</b>
<b>3700</b>	<i>Wastes or scraps</i>
370001	Waste and scrap of paper or paperboard
370002	Waste and scrap of glass
370003	Metal waste and scrap
370004	Non-metal waste and scrap
370005	Wastes from food and tobacco industry
370006	Materials recovery services (recycling), on a fee or contract basis
<b>38</b>	<b>Electrical energy</b>
<b>3800</b>	<i>Electrical energy</i>
380001	Generation of electrical energy
380002	Transmission of electrical energy and related services
380003	Transmission of electrical energy and related services
<b>39</b>	<b>Gas distributed through mains</b>
<b>3900</b>	<i>Gas distributed through mains</i>
390000	Gas distributed through mains
<b>40</b>	<b>Water</b>
<b>4000</b>	<i>Water</i>
400000	Water
<b>41</b>	<b>Construction work, building construction and repair and renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator</b>
<b>4101</b>	<i>General construction services of residential buildings</i>
410100	General construction services of residential buildings
<b>4102</b>	<i>General construction services of non-residential buildings</i>
410200	General construction services of non-residential buildings
<b>4103</b>	<i>Installation, building completion and finishing services</i>
410300	Installation, building completion and finishing services
<b>4104</b>	<i>Renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator</i>
410400	Renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator
<b>42</b>	<b>Construction works, civil engineering works and leasing services of equipment with operator</b>



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CODE	DESCRIPTION
<b>4201</b>	<i>General construction services of civil engineering works</i>
420101	General construction services of highways, streets, roads, railways, tunnels and subways, and airfield runways
420103	General construction services of harbors, waterways, dams, irrigation and other waterworks
420104	General construction services of long distance and local pipelines, communication and power lines (cables), and related works
420106	General construction services of mines
420199	General construction services of others
<b>4202</b>	<i>Renting services related to machinery with operator for construction or demolition of civil engineering works</i>
420200	Renting services related to machinery with operator for construction or demolition of civil engineering works
<b>43</b>	<b>Distributive trade services</b>
<b>4300</b>	<i>Distributive trade services</i>
430000	Distributive trade services
<b>44</b>	<b>Repair services of motor vehicles, household electrical appliances and other goods</b>
<b>4401</b>	<i>Repair services of motor vehicles</i>
440100	Repair services of motor vehicles
<b>4402</b>	<i>Repair services of electrical household appliances and other goods</i>
440200	Repair services of electrical household appliances and other goods
<b>45</b>	<b>Lodging services; Food serving services</b>
<b>4501</b>	<i>Lodging services</i>
450100	Lodging services
<b>4502</b>	<i>Food and beverage serving services</i>
450201	Food serving services
450202	Beverage serving services for consumption on the premises
<b>46</b>	<b>Land transport services</b>
<b>4601</b>	<i>Land transport services of passengers</i>
460101	Scheduled transport services of passengers (urban and suburban) including special purpose services
460102	Scheduled transport services of passengers (interurban and others) including special purpose services
460103	Taxi services
460104	Non-scheduled road transport services of passengers, except taxi services
<b>4602</b>	<i>Road transport services of freight including railroad</i>
460201	Road transport services of freight
460202	Railroad transport (freight and passengers)
<b>4603</b>	<i>Transport services via pipeline</i>
460300	Transport services via pipeline
<b>47</b>	<b>Water transport services</b>
<b>4701</b>	<i>Coastal and transoceanic water transport services</i>
470100	Coastal and transoceanic water transport services
<b>4702</b>	<i>Inland water transport services</i>
470200	Inland water transport services



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CODE	DESCRIPTION
<b>48</b>	<b>Air transport services</b>
<b>4801</b>	<i>Scheduled and non-scheduled air transport services of passengers; rental services of aircraft with operator</i>
480100	Scheduled and non-scheduled air transport services of passengers; rental services of aircraft with operator
<b>4802</b>	<i>Air transport services of freight</i>
480200	Air transport services of freight
<b>49</b>	<b>Supporting and auxiliary transport services</b>
<b>4901</b>	<i>Supporting transport services</i>
490101	Storage and warehousing; and cargo handling services
490103	Supporting services for road and railway transport
490104	Supporting services for water transport
490105	Supporting services for air or space transport
<b>4902</b>	<i>Other supporting services for transport</i>
490201	Travel agency, tour operator and tourist guide services
490299	Auxiliary and other supporting transport services
<b>50</b>	<b>Postal and telecommunication services</b>
<b>5001</b>	<i>Postal and courier services</i>
500100	Postal and courier services
<b>5002</b>	<i>Telecommunications services</i>
500201	Fixed telephony services, mobile telecommunication services, telecommunication services other than data transmission and program distribution services
500203	Data transmission services
500204	Program distribution services
<b>51</b>	<b>Financial intermediation, insurance and auxiliary services</b>
<b>5101</b>	<i>Financial intermediation services, except investment banking, insurance services and pension services</i>
510101	Financial intermediation services indirectly measured - FISIM
510102	Other financial intermediation services
<b>5102</b>	<i>Insurance and pension services (including reinsurance services), compulsory social security services</i>
510201	General insurance; life and reinsurance
510202	Health and pension compulsory social security services and professional risks
<b>5103</b>	<i>Supporting financial intermediation services, insurance, pension funds and cesantias</i>
510301	Supporting financial intermediation services; Brokerage and related securities; foreign exchange
510303	Supporting administration services of pension funds and cesantias
<b>52</b>	<b>Real estate services</b>
<b>5201</b>	<i>Renting or leasing services involving own or leased property</i>
520101	Renting or leasing services involving residential property on own account
520102	Renting or leasing services involving own or leased residential property to third parties
520103	Renting or leasing services involving non-residential own or leased property
<b>5202</b>	<i>Real estate services on a fee or contract basis</i>
520200	Real estate services on a fee or contract basis
<b>53</b>	<b>Business services except financial and real estate services</b>



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CODE	DESCRIPTION
<b>5301</b>	<i>Leasing or rental services without operator; computer, research and development; professional, scientific and technical services</i>
530101	Leasing or rental services concerning machinery and equipment and other goods without operator
530102	Licensing services for the right to use computer software; Computer consultancy services; Online information provision services; Data processing services; Computer hardware servicing, repair and maintenance, etc.
530103	Research and development services
530104	Legal, accounting, auditing, tributary advisory services; marketing studies, administration consultants; architecture, engineering and other technical services
<b>5302</b>	<i>Business services n.e.c.</i>
530201	Advertising services
530202	Employment agency services and supply of personnel services
530203	Private investigation and security services
530204	Cleaning services
530205	Photographic services
530206	Packaging services and other business services n.e.c.
<b>54</b>	<b>Public administration and defence; direction, administration and control of compulsory social security services</b>
<b>5401</b>	<i>Public administration services (collective) and for the community in general</i>
540100	Public administration services (collective) and for the community in general
<b>5402</b>	<i>Services of compulsory social security schemes</i>
540200	Services of compulsory social security schemes
<b>55</b>	<b>Market education services</b>
<b>5500</b>	<i>Market education services</i>
550001	Preschool market education services
550002	Primary market education services
550003	Secondary market education services
550004	Higher market education services
550005	Education services for adults and other market education services n.e.c.
<b>56</b>	<b>Non-market education services</b>
<b>5600</b>	<i>Non-market education services</i>
560001	Preschool non-market education services
560002	Primary non-market education services
560003	Secondary non-market education services
560004	Higher non-market education services
560005	Education services for adults and other non-market education services n.e.c.
<b>57</b>	<b>Market human health and social services</b>
<b>5700</b>	<i>Market health and social services</i>
570000	Market human health and social services
<b>58</b>	<b>Sewage and refuse disposal, sanitation and other environmental protection services</b>
<b>5800</b>	<i>Sewage and refuse disposal, sanitation and other environmental protection services</i>
580001	Sewage services
580002	Refuse disposal services; sanitation and similar services to protect the environment
<b>59</b>	<b>Services of membership organizations, cultural, sports and other market services</b>



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CODE	DESCRIPTION
<b>5900</b>	<b><i>Services of membership organizations, cultural, sports and other market services</i></b>
590001	Market services of membership organizations
590002	Motion picture, video tape, television and radio program production and distribution services
590003	Motion picture projection services
590004	Radio and television production and broadcasting services
590005	Artistic and promotion services; shows organization
590006	News agency services
590007	Library and archive services
590008	Gambling and betting services
590009	Sports and recreational sports services
590010	Other recreational services
590011	Washing, cleaning and dyeing services; beauty and physical well-being services; funeral services and other miscellaneous personal services n.e.c.
<b>60</b>	<b><i>Services of membership organizations, cultural, sports and other non-market services</i></b>
<b>6000</b>	<b><i>Services of membership organizations, cultural, sports and other non-market services</i></b>
600001	Services of membership organizations, cultural, sports and other non-market services provided by institutions mainly financed by government
600002	Services of membership organizations, cultural, sports and other non-market services provided by institutions mainly financed by non-profit institutions serving households
<b>61</b>	<b><i>Domestic services</i></b>
<b>6100</b>	<b><i>Domestic services</i></b>
610000	Domestic services

Source: DANE, DSCN

**Annex B. Specifications for the construction of regional accounts indicators**

<b>Codes</b>	<b>Description of products</b>	<b>Indicator and methodology to distribute the production</b>	<b>Source</b>
<b>01</b>	<b>Products of coffee from agriculture</b>		
<b>0100</b>	<i>Products of coffee from agriculture</i>		
010001	Parchment coffee and pasilla beans	Purchases by department in thousands of sacks of 60 kilos of green coffee	FEDECAFE
010002	Coffee tree	Developing Areas (has)	FEDECAFE
<b>02</b>	<b>Other agricultural products</b>		
<b>0201</b>	<i>Cereals</i>		
020101	Wheat and meslin	Tons produced by department	MADR - Statistical Yearbook
020102	Maize (corn)	Tons produced of technified and traditional maize by department	MADR - Statistical Yearbook
020103	Rice, not husked	Tons produced of irrigated rice, mechanized upland rice and manual upland rice by department	MADR - Statistical Yearbook
020104	Barley	Tons produced by department	MADR - Statistical Yearbook
020199	Rye and oats grains, sorghum grains and other cereals	Tons produced by department	MADR - Statistical Yearbook
<b>0202</b>	<i>Vegetables, legumes, root vegetables and tubers</i>		
020201	Potatoes	Tons produced by department	MADR - Statistical Yearbook
020202	Fresh and dried leguminous vegetables	Tons produced by department	MADR - Statistical Yearbook
020204	Tomato	Tons produced by department	MADR - Statistical Yearbook
020205	Other vegetables, fresh or chilled n.e.c (onion, garlic, beet, mushrooms, etc.)	Tons produced by department	MADR - Statistical Yearbook
020207	Cassava	Tons produced by department	MADR - Statistical Yearbook
020299	Other edible roots and tubers with high starch or inulin content	Tons produced by department	MADR - Statistical Yearbook
<b>0203</b>	<i>Fresh fruits and nuts</i>		
020301	Fresh bananas	Tons produced by department	MADR - Statistical Yearbook
020302	Fresh plantains	Tons produced by department	MADR - Statistical Yearbook
020303	Citrus fruits (lemon, mandarin and other citric ones (grapefruit, tangelo, etc.))	Tons produced by department	MADR - Statistical Yearbook
020399	Other fresh fruits and nuts n.e.c.; Coconuts, pineapples, figs, mangoes, guavas, fresh or dried	Tons produced by department	MADR - Statistical Yearbook
<b>0204</b>	<i>Oil seeds and oleaginous fruit</i>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
020401	Oil palm nut	Tons produced by department	MADR - Statistical Yearbook
020403	Soya bean	Tons produced by department	MADR - Statistical Yearbook
020499	Other oil seeds and oleaginous fruits	Tons produced by department	MADR - Statistical Yearbook
<b>0205</b>	<i>Living plants; cut flowers and flower buds; flower seeds and fruit seeds; vegetable seeds</i>		
020501	Roses	Value of exports of crops by department	Group of goods and services – DSCN
020502	Carnations	Value of exports of crops by department	Group of goods and services – DSCN
020503	Dahlia; orchids and other cut flowers	Value of exports of crops by department	Group of goods and services – DSCN
020599	Living plants: Flower buds, and seeds of flower, fruits and vegetables	Production balances - Structure of the sum of the productions from product 020501 to 020503	DSCN
<b>0206</b>	<i>Beverage and spice crops</i>		
020601	Cocoa beans, raw or roasted	Tons produced by department	MADR - Statistical Yearbook
020699	Other beverage crops and spices, whether or not processed	Tons produced by department	MADR - Statistical Yearbook
<b>0207</b>	<i>Unmanufactured tobacco</i>		
020700	Unmanufactured tobacco	Tons produced by department	MADR - Statistical Yearbook
<b>0208</b>	<i>Sugar cane</i>		
020800	Sugar cane	Tons produced by department	MADR - Statistical Yearbook
<b>0209</b>	<i>Raw vegetable material n.e.c.</i>		
020901	Ginned cotton	Tons produced by department	MADR - Statistical Yearbook
020999	Other raw vegetable material n.e.c.	Tons produced by department	MADR - Statistical Yearbook
<b>0210</b>	<i>Plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes</i>	It is not calculated	
021001	Coca leaf		
021002	Opium poppy and marijuana		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
021099	Other plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes		
<b>0211</b>	<i>Developing areas and other services related to agricultural production</i>		
021101	African palm plantations	Number of hectares planted by department	MADR - Statistical Yearbook
021102	Sugar cane plantations	Number of hectares planted by department	MADR - Statistical Yearbook
021103	Orchards, cultivated grassland and others	Number of hectares planted by department	MADR - Statistical Yearbook
021104	Aerial spraying	Sum of hectares of technified maize, export banana, cotton and rice	MADR - Statistical Yearbook
021105	Cotton ginning	Tons produced by department(product 020901)	MADR - Statistical Yearbook
021199	Other services related to agriculture	Structure of Product 020901	MADR - Statistical Yearbook
<b>03</b>	<b>Live animals, animal products and products from hunting</b>		
<b>0301</b>	<i>Bovine cattle and its by-products</i>		
030101	Bovine cattle, live	Inventory of bovine cattle by age groups (0-12; 12-24; > 24 month)and gender	Agricultural National Survey - CCI- MADR
030102	Raw milk and milk cream	Annual Production of liters	Agricultural National Survey - CCI - MADR
<b>0302</b>	<i>Poultry live and its by-products</i>		
030201	Poultry, live	Annual/monthly production of poultry by department	FENAVI
030202	Eggs, in shell, fresh, preserved, cooked or embryonated	Annual/monthly production of eggs by department	FENAVI
<b>0303</b>	<i>Swine, and other animals, live; by-products and services related to animal farming</i>		
030301	Swine, live	Inventory of pig cattle > 6 months	Agricultural National Survey - CCI - MADR Census - PORCICOL
030302	Sheep and goats, horses, asses, mules and hinnies, live	Inventory females and males	Agricultural National Survey - CCI - MADR
030303	Other live animals, raised or captured, n.e.c.; other by-products whether edible or not	Inventory of rabbits and cuyes Structure of 030302 product Structure of males of 030301 product	Agricultural National Survey - CCI - MADR

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Codes	Description of products	Indicator and methodology to distribute the production	Source
030304	Veterinary services and other animal husbandry services	Number of technicians related to animal husbandry, veterinary medicine, etc.	Agricultural National Survey - CCI - MADR
<b>04</b>	<b>Forestry and logging products and related services</b>		
<b>0400</b>	<i>Forestry and logging products and related services</i>		
040001	Logs of wood	Hectares of planted or natural forests	Agricultural National Survey - CCI - MADR
040002	Fuel wood	Rural population and consumption of firewood in thousands of tons	Census of population - UPME
040003	Planted forests; by-products related to forestry (natural rubber, plant resins, cork, etc.)	Stock account of the forest planted with commercial purposes and area, production and yields of natural rubber(planted hectares).	Agricultural National Survey - CCI - MADR National Fund for the Promotion of Rubber (FNFC)
040004	Protective planted forests	Forest-programmed and reached production	SIGOB, Management and monitoring to Government goals
040005	Services related to forestry	Production Balances by product Structure - Sum products 040001 + 040002+ 040003+ 040004	DSCN
<b>05</b>	<b>Fishing products, fish farming and related services</b>		
<b>0501</b>	<i>Fishes, live, fresh or chilled</i>		
050101	Saltwater fishes, live, fresh or chilled	Production of non-technified and Industrial fishing and fish farming by Oceans	IMPA-SIPA-CCI-Invemar-Acuanal-Indoder-MADR
050102	Freshwater fishes, live, fresh or chilled	Production fishing and fish farming of the hydrographic river basins of Magdalena, Amazonia, Orinoquía, Atrato and Sinú), and regional Fishery production.	IMPA-SIPA-CCI-Invemar-Acuanal-Indoder-MADR
<b>0502</b>	<i>Crustaceans; oysters; other aquatic invertebrates; other aquatic products</i>		
050200	Crustaceans; oysters; other aquatic invertebrates; other aquatic products	Production in tons	IMPA-SIPA-CCI-Invemar-Acuanal-Indoder-MADR
<b>0503</b>	<i>Services related to fishing and fish farming</i>		
050300	Services related to fishing and fish farming	Production balances of 050101Structure of product 050101	DSCN
<b>06</b>	<b>Mineral coal</b>		
<b>0600</b>	<i>Mineral coal</i>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
060001	Mineral coal	Thousands of tons	Statistical Bulletin of mines and energy – UPME.
060003	Services related to coal mining	Value of production by department structure of product 060001	DSCN
<b>07</b>	<b>Crude petroleum, natural gas and uranium and thorium minerals</b>		
<i>0700</i>	<i>Crude petroleum, natural gas and uranium and thorium minerals</i>		
070001	Crude petroleum	Thousands of barrels, per calendar day	Statistical Bulletin of mines and energy– UPME .
070002	Natural gas and other energy sources (uranium and thorium)	Thousands of cubic feet per year	Statistical Bulletin of mines and energy - UPME
070003	Services related to petroleum and natural gas extraction, except those of prospection	Balances production Structure of 070001 + 070002	Ministry of Mines and Energy
<b>08</b>	<b>Metallic ores</b>		
<i>0801</i>	<i>Common ores</i>		
080101	Iron ores and concentrates	Tons	Statistical Bulletin of mines and energy –UPME.
080102	Copper	Tons	Statistical Bulletin of mines and energy –UPME.
080103	Nickel ores and concentrates (ferronickel)	Tons	Statistical Bulletin of mines and energy –UPME.
080104	Aluminum and other metallic ores	Volume Indexes	Balances Goods and Services DSCN
<i>0802</i>	<i>Precious metal ores</i>		
080201	Ores mainly composed of gold	Kilograms	Statistical Bulletin of mines and energy - UPME
080202	Platinum ores	Kilograms	Statistical Bulletin of mines and energy - UPME
080203	Silver ores	Kilograms	Statistical Bulletin of mines and energy - UPME
<b>09</b>	<b>Non-metallic ores</b>		
<i>0901</i>	<i>Monumental or building rock or stone</i>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
090100	Monumental or building rock or stone	Volume index balances and production of 4101, 4102 and 42	Group Goods and Services - DSCN
<b>0902</b>	<i>Evaporites</i>		
090201	Rock Salt	Tons	Statistical Bulletin of mines and energy-UPME
090202	Sea Salt	Tons	Statistical Bulletin of mines and energy - UPME
<b>0903</b>	<i>Non-metallic ores for industrial uses</i>		
090300	Non-metallic ores for industrial uses	Thousands of tons	For limestone the source of information is ICPC, for the rest of mineral products the source is Goods and Services Group Balances.
<b>0904</b>	<i>Emeralds and other precious and semiprecious stones</i>		
090400	Emeralds and other precious and semiprecious stones	Thousands of carats	Statistical Bulletin of mines and energy IFI SALINAS.
<b>0905</b>	<i>Services related to mining except those related to oil and natural gas</i>		
090500	Services related to mining except those related to oil and natural gas	Production Balances Structure – Sum of the production by department of products 0901 and 0903	DSCN



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Codes	Description of products	Indicator and methodology to distribute the production	Source
10 -37*	<b>Manufacturing Industry</b>	Two blocks of information are used: (1) foods, drinks and tobacco –Activities 10 to 19 and (2) rest of the industry - Activities: 20 to 37. <b>Industry</b> (establishments with 10 or more employees): the measurement indicator is the value added by department and industrial subsector according to the DSCN classification, through the manufacturing annual survey (EAM). * The industrial activities 010 Production, processing and preservation of meat and fish, and 013 Manufacture of grain mill products, starches and starch products, prepared animal feeds, bakery products, macaroni, noodles, couscous and similar farinaceous products have special treatment; the first one with the research on cattle slaughter(SISAC) and the second according to the consumption of bread, which is obtained from the Household Income and Expenditure Survey (DANE). <b>Small Industry:</b> the indicator used is regional employment from the 2005 Economic Census.	Manufacturing Annual Survey – (EAM) DANE; Economic Census 2005 - DANE; Household Income and Expenditure Survey- DANE; SISAC - DANE
<b>38</b>	<b>Electrical energy</b>		
<b>3800</b>	<i>Electrical energy</i>		
380001	Generation of electrical energy	Thermal, Hydraulic Generation - GWH	Superintendency of Public Utilities SUI - XM - Central Bank Bulletin - ICER
380002	Transmission of electrical energy and related services	Thermal, Hydraulic Generation - GWH	Superintendency of Public Utilities SUI - XM - Central Bank Bulletin - ICER
380003	Transmission of electrical energy and related services	Energy demand – GWH (consumption)	Superintendency of Public Utilities SUI - XM - Central Bank Bulletin - ICER
<b>39</b>	<b>Gas distributed through mains</b>		
<b>3900</b>	<i>Gas distributed through mains</i>		
390000	Gas distributed through mains	Residential and non-residential consumption value by department	Superintendency of Public Utilities SUI - Central Bank Bulletin ICER
<b>40</b>	<b>Water</b>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
<b>4000</b>	<i>Water</i>		
400000	Water	Residential and non-residential consumption value by department	SUI – CHIP – ICER- SISEP.
<b>41</b>	<b>Construction work, building construction and repair and renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator</b>		
<b>4101</b>	<i>General construction services of residential buildings</i>		
410100	General construction services of residential buildings	Square meters according to census of constructions and licenses of construction	Construction group DANE
<b>4102</b>	<i>General construction services of non-residential buildings</i>		
410200	General construction services of non-residential buildings	Square meters according to census of constructions and licenses of construction and indicators of Gross Capital Formation of local non-financial public corporations	Construction group DANE
<b>4103</b>	<i>Installation, building completion and finishing services</i>		
410300	Installation, building completion and finishing services	Distribution based on licenses and square meters of the census of constructions	Construction group DANE
<b>4104</b>	<i>Renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator</i>		
410400	Renting services related to equipment for construction or demolition of buildings or civil engineering works, with operator	Number of employees	2005 Economic Census
<b>42</b>	<b>Construction works, civil engineering works and leasing services of equipment with operator</b>		
<b>4201</b>	<i>General construction services of civil engineering works</i>		
420101	General construction services of highways, streets, roads, railways, tunnels and subways, and airfield runways	Consolidation of the sectorization: Public Administration of National Accounts (APU), Gross Capital Formation of the municipal and regional public corporations; corporations like ECOPETROL, Isa, Isagen, etc., Superintendency of Corporations and Natural Gas	National accounts: group of companies and government
420103	General construction services of harbors, waterways, dams, irrigation and other waterworks		National accounts: group of companies and government



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Codes	Description of products	Indicator and methodology to distribute the production	Source
420104	General construction services of long distance and local pipelines, communication and power lines (cables), and related works	company	National accounts: group of companies and government
420106	General construction services of mines		National accounts: group of corporations and government
420199	General construction services of others		National accounts: group of corporations and government
<b>4202</b>	<i>Renting services related to machinery with operator for construction or demolition of civil engineering works</i>		National accounts: group of corporations and government
420200	Renting services related to machinery with operator for construction or demolition of civil engineering works	Number of employees	2005 Economic Census
<b>43</b>	<b>Distributive trade services</b>		
<b>4300</b>	<i>Distributive trade services</i>		
430000	Distributive trade services	Employment - trade sector - trade productivity	2005 Economic Census –Annual Trade Survey
<b>44</b>	<b>Repair services of motor vehicles, household electrical appliances and other goods</b>		
<b>4401</b>	<i>Repair services of motor vehicles</i>		
440100	Repair services of motor vehicles	Homologation of the number of vehicle fleet including public and individual service	Ministry of Transport - Automotive Transport Division
<b>4402</b>	<i>Repair services of electrical household appliances and other goods</i>		
440200	Repair services of electrical household appliances and other goods	Projections of population by urban area	DANE Censuses and Demography
<b>45</b>	<b>Lodging services; Food serving services</b>		
<b>4501</b>	<i>Lodging services</i>		
450100	Lodging services	Number of rooms by category multiplied by the occupancy rate and the average rate per room	COTELCO
<b>4502</b>	<i>Food and beverage serving services</i>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
450201	Food serving services	Household Final Consumption and coefficients of human consumption obtained in the annual national accounts and projections of population	DANE - DSCN - Group of goods and services
450202	Beverage serving services for consumption on the premises	Household Final Consumption and coefficients of human consumption obtained in the annual national accounts and projections of population	DANE - DSCN - Group of goods and services
<b>46</b>	<b>Land transport services</b>		
<b>4601</b>	<i>Land transport services of passengers</i>		
460101	Scheduled transport services, of passengers (urban and suburban) including special purpose services	Average daily production	DANE- ETUP
460102	Scheduled transport services of passengers (interurban and others) including special purpose services	Homologation of the number of passengers - Vehicle fleet by type of services and type of vehicle	Ministry of Transport
460103	Taxi services	Vehicle fleet - public service automobiles	Ministry of Transport
460104	Non-scheduled road transport services of passengers, except taxi services	Passengers mobilized in urban and interurban transport by type of vehicle Structure – Sum of the production by department of products 460101 and 460102	DSCN
<b>4602</b>	<i>Road transport services of freight including railroad</i>		
460201	Road transport services of freight	Volumes transported, by groupings of products and departments of origin	Ministry of Transport - Origin and destination survey
460202	Railroad transport (freight and passengers)	Tons transported	Ministry of Transport; National Institute of Concessions (INCO)
<b>4603</b>	<i>Transport services via pipeline</i>		
460300	Transport services via pipeline	Regional location of different activities of the volume of crude and refined products of petroleum by department of origin	ECOPETROL
<b>47</b>	<b>Water transport services</b>		
<b>4701</b>	<i>Coastal and transoceanic water transport services</i>		
470100	Coastal and transoceanic water transport services	Tons of exports and imports by departments	DANE-DIAN
<b>4702</b>	<i>Inland water transport services</i>		
470200	Inland water transport services	Movement of passengers and freight by fluvial river basin	Ministry of Transport - Statistical Yearbooks



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Codes	Description of products	Indicator and methodology to distribute the production	Source
<b>48</b>	<b>Air transport services</b>		
<b>4801</b>	<i>Scheduled and non-scheduled air transport services of passengers; rental services of aircraft with operator</i>		
480100	Scheduled and non-scheduled air transport services of passengers; rental services of aircraft with operator	Departure of national and international passengers by airport- Average distances in Kilometers;. Mobilized Passengers	Administrative Department of Civil Aeronautics
<b>4802</b>	<i>Air transport services of freight</i>		
480200	Air transport services of freight	National and international transported volumes of ordinary freight - Distances averages in kilometers	Administrative Department of Civil Aeronautics
<b>49</b>	<b>Supporting and auxiliary transport services</b>		
<b>4901</b>	<i>Supporting transport services</i>		
490101	Storage and warehousing; and cargo handling services	Operational gross incomes of harbor corporations by port; Movement of merchandise Exports of coffee and the production of the activities included in industries 11 and 13	General Superintendency of Ports; DANE-DSCN
490103	Supporting services for road and railway transport	Collection of tolls	DANE-DSCN-INVIAS-INCO
490104	Supporting services for water transport	Structure of share of product 4702	DSCN
490105	Supporting services for air or space transport	Operational incomes by airport	Administrative Department of Civil Aeronautics
<b>4902*</b>	<i>Other supporting services for transport</i>		
490201	Travel agency, tour operator and tourist guide services	Structure of value of product 480101	DSCN
490299	Auxiliary and other supporting transport services	Value of imports of merchandises	DIAN
<b>50</b>	<b>Postal and telecommunication services</b>		
<b>5001</b>	<i>Postal and courier services</i>		
500100	Postal and courier services	Operational incomes	Corporations providing the service
<b>5002</b>	<i>Telecommunications services</i>		



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Codes	Description of products	Indicator and methodology to distribute the production	Source
500201	Fixed telephony services, mobile telecommunication services, telecommunication services other than data transmission and program distribution services	Operational incomes of the Service providers - invoiced subscribers	Superintendency of Public Utilities, Regulating Commission of Telecommunications, Ministry of Telecommunications MINTIC
500203	Data transmission services	Number of employees in the sector	2005 Economic Census
500204	Program distribution services	Share structure of product 50201	TELECOM-DANE-DSCN
<b>51</b>	<b>Financial intermediation, insurance and auxiliary services</b>		
<b>5101</b>	<i>Financial intermediation services, except investment banking, insurance services and pension services</i>		
510101	Financial intermediation services indirectly measured - FISIM	Deposits and loans in million pesos	Bank Superintendency – SUPERFINANCIERA
510102	Other financial intermediation services	Number of employees	2005 Economic Census
<b>5102</b>	<i>Insurance and pension services (including reinsurance services), compulsory social security services</i>		
510201	General insurance; life and reinsurance	Value of the premium paid by the insured persons in the departments capital cities	FASECOLDA
510202	Health and pension compulsory social security services and professional risks	Affiliates to the Social Insurance System in Health and Professional Risks	DSCN - DANE SOCIAL FOSYGA-MINPROTECCION - <a href="http://www.riesgosprofesionales.gov.co">www.riesgosprofesionales.gov.co</a>
<b>5103</b>	<i>Supporting financial intermediation services, insurance, pension funds and cesantias</i>		
510301	Supporting financial intermediation services; Brokerage and related securities; foreign exchange	Commissions incomes by fiduciary corporations	DSCN - Institutional sectors - SUPERFINANCIERA
510303	Supporting administration services of pension funds and cesantias	Number of employees	2005 Economic Census - SUPERFINANCIERA
<b>52</b>	<b>Real estate services</b>		
<b>5201</b>	<i>Renting or leasing services involving own or leased property</i>		
520101	Renting or leasing services involving residential property on own account	Stock of own account dwelling multiplied by an average rental value	DANE - DIMPE-Construction group and dwelling. Household Income and Expenditure Survey



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Codes	Description of products	Indicator and methodology to distribute the production	Source
520102	Renting or leasing services involving own or leased residential property to third parties	Stock of rented dwelling multiplied by an average rental value	DANE - DIMPE-Construction group and dwelling. Household Income and Expenditure Survey
520103	Renting or leasing services involving non-residential own or leased property	Rental value of buildings other than dwelling	DANE - DIMPE- Construction group and dwelling
<b>5202</b>	<i>Real estate services on a fee or contract basis</i>		
520200	Real estate services on a fee or contract basis	Million pesos - Communitarian and administration expenses	Household Income and Expenditure Survey, CONSUMER PRICE INDEX - DANE
<b>53</b>	<b>Business services except financial and real estate services</b>		
<b>5301</b>	<i>Leasing or rental services without operator; computer, research and development; professional, scientific and technical services</i>		
530101	Leasing or rental services concerning machinery and equipment and other goods without operator	Rental of machinery and equipment expenses - Number of employees	Manufacturing Annual Survey (EAM), 2005 Economic Census
530102	Licensing services for the right to use computer software; Computer consultancy services; Online information provision services; Data processing services; Computer hardware servicing, repair and maintenance, etc.	Payments for software in the computer science area	Manufacturing Annual Survey (EAM) - DANE
530103	Research and development services		
530104	Legal, accounting, auditing, tributary advisory services; marketing studies, administration consultants; architecture, engineering and other technical services.	Incomes by services provided- Number of employees - Income tax, stamp tax, property tax, valuation tax and vehicles tax, Fees and technical services	Superintendency of Notaries Public and Registry, 2005 Economic Census, DIAN, EAM-DANE
<b>5302</b>	<i>Business services n.e.c</i>		
530201	Advertising services	Advertising expenses	Manufacturing Annual Survey (EAM) - DANE
530202	Employment agency services and supply of personnel services	Compensation of staff hired through employment agency	Manufacturing Annual Survey (EAM) - DANE
530203	Private investigation and security services	Number of employees	DANE - 2005 Economic Census
530204	Cleaning services	Number of employees	DANE - 2005 Economic Census
530205	Photographic services	Number of employees	DANE - 2005 Economic Census



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Codes	Description of products	Indicator and methodology to distribute the production	Source
530206	Packaging services and other business services n.e.c.	Expenses of raw materials consumption, materials and packages	Manufacturing Annual Survey (EAM) - DANE
<b>54</b>	<b>Public administration and defence; direction, administration and control of compulsory social security services</b>	The level of central, local and social security subsectors is determined. <b>Local subsector</b> is determined through the SIGOB system of information, which reports the value added at regional level. <b>Central subsector</b> is determined by personal staff, the payrolls value and its annual compensations costs by services in the organizations with regional presence. <b>Social security subsector</b> is the number of affiliates to the Subsidized Scheme.	DSCN - State Organizations
<b>55</b>	<b>Market education services</b>		
<b>5500</b>	<i>Market education services</i>		
550001	Preschool market education services	Students registered in private establishments - basic average tuition	DANE - Ministry of National Education
550002	Primary market education services	Students registered in private establishments - basic average tuition	DANE - Ministry of National Education
550003	Secondary market education services	Students registered in private establishments - basic average tuition	DANE - Ministry of National Education
550004	Higher market education services	Students registered in private establishments - basic average tuition	DANE - Ministry of National Education
550005	Education services for adults and other market education services n.e.c.	Students registered in non-formal education	Superintendency of Family Allowance
<b>56</b>	<b>Non-market education services</b>		
<b>5600</b>	<i>Non-market education services</i>		
560001	Preschool non-market education services	Transfers to the educative sector by department	National Planning Department
560002	Primary non-market education services	Transfers to the educative sector by department	National Planning Department
560003	Secondary non-market education services	Transfers to the educative sector by department	National Planning Department
560004	Higher non-market education services	Transfers to the educative sector by department	National Planning Department
560005	Education services for adults and other non-market education services n.e.c.	Transfers to the educative sector by department	National Planning Department
<b>57</b>	<b>Market human health and social services</b>		



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SUBPROCESS: REGIONAL ACCOUNTS

ELABORATED BY:  
Group of Regional Accounts

CHECKED BY:  
Coordinator of Regional Accounts

APPROVED BY:  
Technical Director of National Accounts

Codes	Description of products	Indicator and methodology to distribute the production	Source
<b>5700</b>	<i>Market health and social services</i>		
570000	Market human health and social services	Affiliates through EPS	FOSYGA-Ministry of Social Protection
<b>58</b>	<b>Sewage and refuse disposal, sanitation and other environmental protection services</b>		
<b>5800</b>	<i>Sewage and refuse disposal, sanitation and other environmental protection services</i>		
580001	Sewage services	Value of residential and non-residential consumption	SUI – CHIP – ICER- SISEP
580002	Refuse disposal services; sanitation and similar services to protect the environment	Value of residential and non-residential consumption	SUI – CHIP – ICER- SISEP
<b>59</b>	<b>Services of membership organizations, cultural, sports and other market services</b>		
<b>5900</b>	<i>Services of membership organizations, cultural, sports and other market services</i>		
590001	Market services of membership organizations,	Number of employees	2005 Economic Census
590002	Motion picture, video tape, television and radio program production and distribution services	Operational incomes of the corporations that provide these services	SISOC - DSCN - DANE
590003	Motion picture projection services	Incomes by exhibition in theaters of Cine Colombia	Cine Colombia S.A.
590004	Radio and television production and broadcasting services	Number of employees	2005 Economic Census
590005	Artistic and promotion services; shows organization	Taxes paid by public shows	DANE - DSCN - Group of public Administration
590006	News agency services	Operational incomes of the corporations that provide this service	SISOC - DSCN - DANE
590007	Library and archive services	Number of employees	2005 Economic Census
590008	Gambling and betting services	Incomes by department	Superintendency of Health– Profits ceded and permanent bets
590009	Sports and recreational sports services	Incomes per ticket offices	Dimayor
590010	Other recreational services	Structure by department of product 590011	DANE -DSCN
590011	Washing, cleaning and dyeing services; beauty and physical well-being services; funeral services and other miscellaneous personal services n.e.c.	Expenses incurred in these services and projections of population. Number of deaths multiplied by the approximated value of a burial service	Household Income and Expenditure Survey 2005 and DANE - DCD/. Group of Vital Statistics and DSCN - Group of Enterprises



## METHODOLOGY OF REGIONAL ACCOUNTS 2005 BASE YEAR

CÓDE: CDE-CD-  
MET-01  
VERSION: 03  
DATE: JULY 31-  
2011

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Codes	Description of products	Indicator and methodology to distribute the production	Source
<b>60</b>	<b>Services of membership organizations, cultural, sports and other non-market services</b>		
<b>6000</b>	<i>Services of membership organizations, cultural, sports and other non-market services</i>		
600001	Services of membership organizations, cultural, sports and other non-market services provided by institutions mainly financed by government	Compensation of the employees at the local level	DANE – DSCN – Group of Public Administration
600002	Services of membership organizations, cultural, sports and other non-market services provided by institutions mainly financed by non-profit institutions serving households	Compensation of the employees at the local level	DANE – DSCN – Group of Public Administration
<b>61</b>	<b>Domestic services</b>		
<b>6100</b>	<i>Domestic services</i>		
610000	Domestic services	Number of employees according to occupation. Average wage	2005 Population Census

Source: DANE. DSCN

