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OFFICIAL STATISTICS.

COMMONWEALTH OF AUSTRALIA YEAR BOOK, 1901 to 1908,

With Corrected Statistics for Earlier Years.

SECTION I.

STATISTICAL ORGANISATION AND SOURCES OF INFORMATION.

§ 1. Introduction.

1. Development of Australian Statistics.—In the first issue of the Commonwealth Official Year Book (No. 1, 1901-1907),¹ an account was given of the origin and development of the statistical methods of Australia from the earliest times to the organisation of the Commonwealth Bureau of Census and Statistics; vide pp. 1 to 16 therein. It will suffice here to mention that statistical compilation in Australia originated in the necessity of producing "Blue Books" for the information of the Home Government. The granting of Responsible Government extended the field of statistics required to be collected, and changed somewhat the administrative arrangements for statistical compilation. Certain branches, for example, were early relegated to the various Registrars-General. Finance was ordinarily dealt with by the Treasuries; Trade, by the Customs Departments; and in general each Department prepared statistics for itself. Owing to this, State Statistical Departments came ultimately to be organised largely as collecting agencies of official and general information. The effort of each State, however, was independent.

A short historical sketch was given in the Year Book (pp. 2 to 5), shewing how each State Bureau, and that of New Zealand, was actually developed, and a brief reference was made to the publications issued by the various Bureaux.

Although even from the earliest times the desirableness of uniformity in statistical compilation was recognised, and some effort was also made to bring it about, it was practically inevitable, in the absence of any co-ordinating authority, that divergencies of technique should arise, and that these divergencies should introduce difficulties in the way of so combining State statistics, as to get a satisfactory statistic for Australia as a whole. Individualising tendencies were only partially combated by the various conferences of State Statisticians, namely, in 1861, 1875, 1890, 1900, 1902, and 1903. (See hereunder).

^{1.} All references to pages in this section will be to Year Book No. 1, 1901-1907.

STATISTICAL CONFERENCES.

		<u> </u>	
Date of Conference.	Place of Meeting.	Colonies or States represented.	Object of Conference.
October, 1861	Melbourne	New South Wales, Queensland, South Australia, Victoria.	To secure uniformity in the collection and com- pilation of statistics.
January, 1875	Hobart	New South Wales, South Australia, Tasmania, Victoria.	To secure uniformity in the collection and com- pilation of statistics.
March, 1890	Hobart	New South Wales, South Australia, Tasmania, Victoria, New Zealand.	To secure uniformity in the collection and com- pilation of census re- turns.
February, 1900	Sydney	New South Wa'es, Queensland, South Australia, Tasmania, Victoria, Western Australia, New Zealand.	To found a uniform basis for the estimation of population and to se- cure the collection and compilation of census on uniform principles.
January, 1902	Hobart	New South Wales, Queensland, South Australia, Tasmania, Victoria, Western Australia, New Zealand.	To secure uniformity in the preparation of statistical returns.
September, 1903	Melbourne	New South Wales, Queensland, South Australia, Tasmania, Victoria, Western Australia.	To secure uniform me- thods in the statistics of population.
Nov., Dec., 1906	Melbourne	Commonwealth, and each State therein and New Zealand.	Co-ordination of the en- tire statistical effort of the Commonwealth and State Bureaux.

- (i.) Creation of the Commonwealth Bureau of Census and Statistics. In 1906 the Commonwealth Bureau of Census and Statistics was created under the authority of the Census and Statistics Act of 1905, the provisions of which were stated in extenso in Year Book No. 1, pp. 8 to 11. The Act deals with administration, with the taking of the census, with the collection of statistics generally, and with the obligations of the public to conform to the requirements of the Act itself. Prior to the creation of the Commonwealth Bureau, it was nearly always difficult, and often impossible, to combine the statistics of the several States, because the basis and whole technique of collection were fixed practically without regard to the necessities of compilation for Australia as a whole.
- (ii.) Statistical Conference, 1906. It became evident that this state of things could no longer continue, and a conference under the presidency of the Commonwealth Statistician, attended by statistical representatives of each State and New Zealand, was held in November and December, 1906, for the purpose of devising a scheme under which statistical collection would become satisfactory for the study of the affairs of the Commonwealth, as well as those of its constituent parts. It was recognised that the statistical organisation should be such as to secure the following advantages, viz.:—
 - (i.) Identity of categories under which the facts are to be collated.
 - (ii.) Substantial identity in the method of collection.
 - (iii.) Uniformity in the scheme of presenting the facts collected.
 - (iv.) Simultaneity of collection where possible.

An account of the *personnel* of the conference, of the more salient points of the Commonwealth Statistician's address, and a *resume* of the conference resolutions are given in Year Book No. 1, pp. 13-16. The main features of these resolutions were as follows:—

(i.) In the interests alike of each State and the Commonwealth the collection and compilation of statistical information by the State Statistical Bureaux

- should be co-extensive, and, within the limits indicated by the adopted forms, uniform in respect of method, order, and date of compilation; and each State Bureau should be equipped so as to make it possible to respond to this demand.
- (ii.) Excepting in the case of information confidentially collected, or compilation confidentially made for the State or Commonwealth Governments, the whole of the statistical information in each Statistical Bureau should be immediately available to the Commonwealth or State Statisticians.
- (iii.) In order to secure uniformity in the compilation and interpretation of statistical data, a complete scheme of instructions should be drafted by the Commonwealth Statistician for general adoption.
- (iv.) The classification of causes of death prepared by the International Institute of Statistics should be adopted.
- (v) A quinquennial enumeration of population is necessary, owing to the rapid movement of population in Australia.
- (vi.) A monthly record of Interstate Trade should be furnished.
- (vii.) Statistics of production should be so published as never to disclose the operations of individual establishments, and, in general, in order to engender the necessary confidence in the minds of informants as to the strictly impersonal nature of statistical inquiries, and so secure readiness to furnish accurate information, the customary statistical practice of maintaining absolute secrecy should, under no circumstances, be departed from.
- (viii.) Statistical publications of the Commonwealth and States should, as far as possible, be of uniform sizes, and uniform as to order of subject matter.
 - (ix.) Trade statistics should be published for each calendar year, classified under categories, and in statistics of export the State of origin should be shewn.
 - (x.) All questions of mathematical method, mode of determining means, etc., shall be decided for all States by the Commonwealth Statistician:

Effect is gradually being given to these resolutions as opportunity offers. The Statistics of Trade and Customs for 1906 were published under the alphabetical arrangement, in response to the request of the Trade and Customs Department. For the 1907 trade statistics they have been classified under the categories referred to, viz.:—

CATEGORIES OF ITEMS, TRADE AND CUSTOMS STATISTICS.

Class No.

- (i.) Foodstuffs of Animal Origin, but excluding Living Animals
- (ii.) Foodstuffs of Vegetable Origin
- (iii.) Beverages (non-alcoholic) and Substances used in making
- (iv.) Spirits and Alcoholic Liquors, including Spirits for Industrial Purposes, and Pharmaceutical Preparations dutiable as Spirits
- (v.) Tobacco and preparations thereof
- (vi.) Live Animals
- (vii.) Animal Substances (mainly unmanufactured) not Foodstuffs
- (viii.) Vegetable Substances and Fibres
- (ix.) Apparel, Textiles, and Manufactured Fibres
- (x.) Oils, Fats, and Waxes
- (xi.) Paints and Varnishes
- (xii.) Stones and Minerals used industrially
- (xiii.) Specie

- Class No.
 - (xiv.) Metals (unmanufactured) and Ores
 - (xv.) Metals, partly manufactured
 - (xvi.) Metals (manufactured), including Machinery
- (xvii.) Leather and Manufactures of Leather, and substitutes therefor; also Indiarubber and Indiarubber Manufactures
- (xviii.) Wood and Wicker, raw and manufactured
- (xix.) Earthenware, Cements, China, Glass, and Stoneware
- (xx.) Paper and Stationery
- (xxi.) Jewellery, Timepieces, and Fancy Goods
- (xvii.) Optical, Surgical, and Scientific Instruments
- (xxiii.) Drugs, Chemicals, and Fertilizers
- (xxiv.) Miscellaneous
- (xxv.) Excise.

^{1.} The Commonwealth Statistician translated the necessary nosological classification, and it was published early in 1907.

- 2. Sources of Information.—(i.) State Statistical Bureaux. The State Statistical Bureaux now collect and arrange such information as they supply, under a common method, and according to uniform categories. The State Bureaux, therefore, have a double function, viz., they collect—(a) for their immediate requirements as States, and (b) as integral parts of the Commonwealth. The collections are made—(i.) by the police, (ii.) by special collectors, (iii.) by direct demand for returns, and (iv.) by compilation from official departmental reports.
- (ii.) Commonwealth and State Departments. All statistical compilations of Commonwealth and State Departments are forwarded as soon as published, and occasionally in manuscript prior to publication, to the "Commonwealth Bureau of Census and Statistics," for the purpose of facilitating official statistical compilation on behalf of the Commonwealth. This matter is more fully referred to in $\S 2$, hereinafter, q.v.
- (iii.) Scientific and Technical Experts. The services of scientific and technical experts are requisitioned where necessary, so that the whole of the information published under the auspices of the Commonwealth will be as authoritative and accurate as it is possible to make it.
- (iv.) Authority conferred on State Statisticians. Where their Governments have formally entered into the necessary arrangements, the State Statisticians have been duly constituted as officers under the Commonwealth Census and Statistics Act.
- (v.) Supply of Information to the Commonwealth Statistician. The Census and Statistics Act enacts, under penalty, that when persons are required by the Commonwealth Statistician so to do, they shall furnish him with information in any matters relating to population, vital, social, and industrial affairs; relating to employment and non-employment; to imports and exports, both oversea and interstate; to postal and telegraphic matters; to factories, mines, and any other productive industries, including agricultural, horticultural, viticultural, dairying, and pastoral; to banking, insurance, and finance; to railways, tramways, shipping, and transport generally; to land tenure. and occupancy generally; as well as to any additional matters which may be prescribed Apart from rendering returns on the proper form, every person is required to answer all questions asked him by the Statistician or other officer authorised by the Statistician, in regard to any branch of statistics required by the Act to be collected. In order to facilitate inquiries "the Statistician or any officer authorised in writing by him may, at any time during working hours, enter any factory, mine, workshop, or place where persons are employed, and may inspect any part of it, and all plant and machinery used in connection with it, and may make such inquiries as are necessary" for the requisite information, and penalties are prescribed for hindering the Statistician or his authorised officers in the execution of their duty.
- 3. Maintenance of Secrecy.—It is desirable that it should be publicly recognised that accurate information supplied to a statistical office under promise of secrecy can never, under any circumstances, be used against the individual supplying it, and under no circumstances whatever will the Statistician disclose to any authority the affairs of individuals or of individual businesses, or of small groups of businesses, where, through inference, the affairs of an individual business would be virtually disclosed. In this connection it may be pointed out that the following resolutions of the 1906 Conference of Statisticians have been accepted by the Commonwealth and State Governments, viz.:—
 - (i.) That in conformity with statistical practice, and for the purpose of engendering the necessary confidence in the minds of informants as to the strictly impersonal nature of statistical inquiries, and of thus securing increased readiness on their part to supply correct information, through which alone statistical accuracy is attainable, it is desirable that the details of the statistics of production should in no case be so published as to reveal the operations of individual establishments.

(ii.) That it is further desirable that information obtained under promise of secrecy, express or implied, should not, under any circumstances be divulged.

A statistical office is, in respect of the affairs of individuals, and of individual businesses, an office in which absolute secrecy is maintained. Its inquiries are invariably impersonal, and it should be publicly known that no other Government department, as, for example, Customs, Excise, or Taxation, either land or income, can, under any circumstances whatever, make use of the statistical departments in order to acquire detailed information otherwise unavailable. All persons may therefore feel assured that they may render correct information without regard to any possible ulterior consequences.

4. Accuracy Essential.—It is needless to add that it is important that statistical information should be perfectly accurate, and any person who knowingly makes, on any form or document filled up or supplied, or in answer to any question asked him under the authority of the Census and Statistics Act, any statement which is untrue in any material particular, is liable to a penalty of £50. It is regrettable that census and other statistical results contain intrinsic evidence of deliberate misstatements. For example, the statement of age in census papers is often erroneous, probably, amongst other reasons, because it is not recognised that accurate data are essential for the preparation of the valuable tables necessary for forming judgments in various matters, for example, deducing the probability of life for both sexes at each age, or for determining the premium payments which a safe life insurance policy ought to require.

§ 2. Statistical Publications of Australia.

The official statistical publications of Australia may be divided bibliographically into two main divisions, viz.:—(1) Commonwealth publications dealing both individually and collectively with the several States of the Commonwealth, and (2) State publications dealing with individual States only. Besides these there are a large number of publications issued regularly, which, though not wholly statistical, necessarily contain a considerable amount of statistical information. These are included in the lists given hereunder.

- 1. Commonwealth Publications.—Commonwealth publications may be grouped under two heads, viz.:—(i.) Publications issued by the Commonwealth Statistician, and (ii.) departmental reports and papers.
- (i.) Publications Issued by the Commonwealth Statistician. The following is a list of statistical publications issued from the Commonwealth Bureau of Census and Statistics since its inauguration and up to 30th June, 1908:—

Finance; Bulletin No. 1, 1901 to 1907.

Population and Vital Statistics; Bulletin No. 1, Population, 1901 to 1906.

Population and Vital Statistics; Bulletin No. 2, Commonwealth Demography, 1901 to 1906.

Population and Vital Statistics; Bulletins Nos. 3 to 5, issued quarterly, commencing quarter ended 31st March, 1907.

Production; Bulletin No. 1, 1901 to 1906.

Shipping and Oversea Migration for 1906.

Trade, Customs, and Excise Revenue for 1906; Parts I. and II.

Trade, Shipping, and Oversea Migration; Bulletins Nos. 1 to 13, issued monthly, commencing January, 1907.

Transport and Communication; Bulletin No. 1, 1901 to 1906.

Year Book of the Commonwealth; No. 1, 1901 to 1907.

(ii.) Commonwealth. Departmental Reports and Papers. The following official reports and papers containing statistical matter have been issued since the inauguration of the Commonwealth:—

British New Guinea, Reports for 1904-5 and 1905-6.

Budget, 1901-2 to 1907-8.

Commonwealth Meteorologist. Climate and Meteorology of Australia; Bulletin No. 1.

Contract Immigrants Act 1905 and Immigration Restriction Acts 1901-5; Returns for Years 1902 to 1907.

Director of Naval Forces; Report for 1906.

Electoral Statistics of Commonwealth Elections; 1903 and 1906.

Estimates; 1901-2 to 1907-8.

Inspector-General of Military Forces; Reports, 1905 to 1907.

Military Board; Reports, 1905 and 1906.

Naturalisation Act 1903; Returns.

Patent Statistics; 1904 to 1907.

Public Service Commissioner; Reports, 1901-4 and 1905, and Public Service Lists, 1903 to 1907.

Representation Act 1905; Returns.

Trade and Customs Returns, 1903 to 1905; compiled by the New South Wales.

Government Statistician for the Minister for Customs.

Treasurer's Statements and Reports of Auditor-General, 1901-2 to 1906-7.

Treasury Statements of Receipts and Expenditure, issued quarterly in the Commonwealth Gazette.

- 2. State Publications.—The chief statistical publications of each State issued since Federation may be most conveniently grouped under the following heads, viz.:—(a) Publications issued by the Government Statist, (b) departmental reports and papers, and (c) reports and statements of local and public bodies. These are set out hereunder for each State:—
 - (i. New South Wales.—(a) Publications by Government Statistician:—

The Wealth and Progress of New South Wales, 1900-1.

The Seven Colonies of Australasia, 1901-2.

A Statistical Account of Australia and New Zealand, 1902-3, 1903-4.

The Official Year Book of New South Wales, 1904-5, 1905-6.

Six States of Australia and New Zealand (annual statistics), 1901 to 1905.

Monthly Statistical Bulletin, 1905 to 1908.

Statistical Registers, 1901 to 1907.

Census of New South Wales, 1901.

Vital Statistics, 1901 to 1907.

Agricultural and Live-stock Statistics, 1901 to 1907.

Statistical View of the Progress of New South Wales during 50 years, 1856 to 1906.

(b) Departmental Papers:-

Annual Reports of-

Australian Museum
Board of Public Health
Chief Medical Officer
Commissioner of Railways
Comptroller-General of Prisons
Director of Botanical Gardens and Domains
Department of Agriculture
Department of Crown Lands
Department of Mines and Agriculture
Department of Police

Department of Public Works
Fisheries Board
Forestries Branch
Government Savings Bank
Inspector-General of Insane
Labour Commissioners
Minister of Public Instruction
National Art Gallery
Pharmacy Board
Public Library

Public Service Board Registrar of Friendly Societies, Building Societies, and Trade Unions

State Children's Relief Board

Superintendent of Carpenterian Reformatory University of Sydney Western Land Board.

The Estimates.

Public Accounts and Report of the Auditor-General.

(c) Reports and Statements of Local Bodies:-

Hunter District Water Supply and Sewerage | Sydney Harbour Trust Board

Metrop'lit'n Bd. of Water Supply & Sewerage | Annual Statements of Municipalities

Town Clerk of the City of Sydney

(ii.) Victoria.—(a) Publications by the Government Statist:—

Statistical Registers, 1901 to 1907.

The Victorian Year Books, 1902 to 1906.

Quarterly Statistical Abstracts, 1904 to 1908.

Statistics of Manufactories, Works, etc., 1901 to 1906.

Australasian Statistics, 1901-2, with Summaries for Previous Years.

The First Fifty Years of Responsible Government in Victoria, 1856 to 1906.

(b) Departmental Papers:-

Accounts of the Trustees of Agricultural Colleges and the Council of Agricultural Education.

Annual Reports of-

Actuary for Friendly Societies on Trade Unions

Board for the Protection of Aborigines

Board of Public Health

Chief Inspector of Explosives

Commissioner of Crown Lands and Survey

Conservator of Forests

Council of Judges

Department of Agriculture

Government Astronomer

Inspector of Factories, Workrooms, and Shops

Inspector-General of the Insane

Inspector of Neglected Children and Reformatory Schools

Inspector-General of Penal Establishments and Gaols

Inspector-General of Savings Banks

Lands Purchase and Management Board

Marine Board of Victoria

Minister of Public Instruction

Public Service Commissioner

Registrar of Friendly Societies

Railway Commissioners

Secretary for Mines

State Rivers and Water Supply Commission Trustees of the Public Library, Museums.

and National Gallery

Vice-Chancellor of Melbourne University.

The Budget.

Returns under the Banks and Currency Act 1890, the Companies Act 1890, and the Electric Light and Power Act 1896.

Statement of Expenditure under the Constitution Statute.

The Estimates.

Treasurer's Statement and Report of the Auditor-General.

(c) Reports of Local Bodies:-

Trust Commission

Annual Reports of the Fire Brigades Board

Annual Reports of the Melbourne Harbour , Statement of Accounts of the Melbourne and Metropolitan Board of Works Annual Statements of Municipal and Shire Councils.

(iii.) Queensland.—(a) Publications by Government Statistician:—

The Queensland Official Year Book, 1901.

The Census of 1901.

A.B.C. of Queensland Statistics, 1905 to 1907.

Statistical Registers, 1901 to 1907.

Stock List, 1901 to 1907.

Reports on Agricultural and Pastoral Statistics, on the Sugar Crops, on Vital Statistics, on the Wheat Crop, and on Live Stock.

(b) Departmental Papers:—

Annual Reports of the-

Agent-General

Auditor-General under the Supreme Court Funds Act 1895

Auditor-General under the Queensland National Bank Act 1896

Benevolent Asylums

Brisbane Board of Waterworks

Bureau of Sugar Experiment Stations

Chief Protector of Aboriginals

Chief Inspector of Factories and Shops

Commissioner for Public Health

Commissioner of Income Tax

Commissioner of Police

Commissioner for Railways

Comptroller-General of Prisons

Curator of Intestate Estates

Department of Agriculture

Department of Public Works

Department of Public Lands Director of Labour

Director of Forests

The Estimates.

Reports of the Auditor-General.

Treasurer's Financial Statement.

(iv.) South Australia.—(a) Publications by the Under-Secretary and Government Statistician:

Statistical Registers, 1901 to 1907. •

The Census of 1901.

Annual Reports on Agricultural and Live-stock Statistics.

(a) Departmental Papers:—

Annual Reports of the-

Actuary on Friendly Societies, (1900-1904).

Agent-General

Audit-Commissioner

Chief Inspector of Stock

Commissioner of Police

Commissioner of Railways

Commissioners of the National Park

Conservator of Forests

Department of Agriculture

Department of Public Works

Destitute Board

Gaols and Prisons

Government Astronomer

The Estimates.

Financial Statement of the Treasurer.

Engineer for Harbours and Rivers Hydraulic Engineer on Water Supply

Immigration Agent

Inspector of Orphanages

Inspector of Hospitals for the Insane

Manager of the Government Savings Bank

Medical Officers of Hospitals

Marine Department

Official Trustees in Insolvency

Pacific Island Immigration

Parliamentary Committees

Police Investment Board

Public Service Board

Registrar of Friendly Societies, Building

Societies, and Trade Unions

Secretary for Public Instruction

Trustees of the Public Library

Trustees of the National Art Gallery Trustees of the Agricultural Bank

Under-Secretary for Mines.

(c) Reports and Statements of Local Bodies.

Government Resident of Northern Territory Governors of the Public Library, Museum,

Registrar of Births, Deaths, and Marriages

and Art Gallery

Hospital for the Insane

Inspector of Factories

Inspector of Fisheries

Minister for Education

State Children's Council

Trustees of the Savings Bank.

Surveyor-General

Marine Board

(c) Reports and Statements of Local Bodies :-

Reports of Hospitals.

Schools of Mines and Industries.

(v.) Western Australia. -(a) Publications by Government Statistician: -

The Census of 1901.

Statistical Registers, 1901 to 1907.

Monthly Statistical Abstracts, 1901 to 1908.

Year Books of Western Australia, 1900-03, 1902-4, 1905 Part).

Quarterly Reports on Population and Vital Statistics.

Crop and Live Stock Returns.

(b) Departmental Papers:-

Annual Reports of the-

Aborigines Department Agent-General Agricultural Bank Art Galleries Chief Inspector of Factories Chief Inspector of Explosives Chief Inspector of Fisheries Commissioner of Police Commissioner of Railways Customs Collector and Registrar of Shipping Department of Agriculture Department of Public Health Department of Public Works Department of Lands and Surveys Department of Mines Department of Woods and Forests Education Department Government Analyst Government Astronomer

Government Savings Bank Government Labour Bureau Harbour and Light Department Inspector of Prisons Inspector-General of Insane Land Titles Department Museum and Art Gallery Public Library Public Service Commissioner Registrar of Friendly Societies Registrar of Friendly Societies in connecttion with Trade Unions Stock Department Superintendent of Charities and Inspector of Industrial and Reformatory Schools. Surveyor-General The Industrial Conciliation and Arbitration Act, 1902, by Registrar of Friendly Societies

The Estimates.

Public Accounts and Report of the Auditor-General.

(c) Reports and Statements of Local Bodies:-

Cemetery Boards
Fire Brigades
Fremantle Harbour Trust Commissioners
Fremantle Municipal Tramways and
Electric Lighting Board

Metropolitan Waterworks Board Municipalities, Road Boards, and Boards of Health Public Hospitals. Waterworks Boards (country)

(vi.) Tasmania. (a) Publications by Government Statistician and Registrar-General:—

The Census of 1901.

Statistical Registers, 1901 to 1907.

Reports on Vital Statistics and Migration, 1901 to 1907.

Reports on Agricultural and Live Stock Statistics, 1901 to 1907.

Statistical Summaries, 1901 to 1907.

(b) Departmental Papers:—

Annual Reports of the-

Agent-General Charitable Grants Department

Chief Inspector of Stock Commissioner of Taxes

Department of Agriculture Department of Education Department of Mines

Department of Neglected Children Department of Public Health

Engineer-in-Chief of Public Works

Explosives Department Fire Brigade Board

General Manager of Government Railways

The Budget.
The Estimates—Finance 1906-7.
Public Debts Sinking Fund.

Report of the Auditor-General. Financial Statement of the Treasurer.

(c) Reports and Statements of Local Bodies:-

Country Libraries Harbour Trusts Hospitals Industrial Schools Hobart and Launceston Gaols
Inspector of Machinery
Lands and Survey Department
Museum and Botanical Gardens
Police Department
Public Library
Public Service Board
Recorder of Titles
Registrar of Friendly Societies and Trade
Unions
Savings Bank
Secretary for Mines
University of Tasmania.

Life Assurance Societies Marine Boards Municipalities.