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Occasional publications. In addition to the publications listed on pages 1221-4, most of which are issued regularly, there have been a number of statements issued by this Bureau which contain the results of special surveys or new statistical series and descriptions thereof. The more recent of these are listed below.

Special Business Survey No. 16. Incidence of Industrial Awards, Determinations and Agreements, May 1963; Minimum Wage Rates, January 1960 to June 1963; Wage and Salary Earners in Employment, June 1954 to June 1961; Wage and Salary Earners in Employment, June 1961 to June 1965; Projections of the Population of Australia (1966 to 1986); Survey of Private Pension and Retiring Allowance Schemes, 1962–63; Surveys of Weekly Earnings and Hours, October 1962, October 1963, October 1964, and October 1966; Survey of Weekly Earnings, October 1965; Mining and Quarrying, Statistical Summary (1952–1964); Minimum Wage Rates, March 1939 to June 1965; Surveys of Leavers from Schools, Universities or other Educational Institutions, February 1964, 1965 and 1966 (issued October 1966) and February 1967 (issued June 1967); Survey of Multiple Jobholding, August 1966; 1966 Census Bulletins, for each State and Territory and Australia, dealing with particular characteristics, also population and dwelling summaries and totals for local government areas, etc.

Information on current Bureau publications. Further information on current publications of the Commonwealth Bureau of Census and Statistics is contained in *Publications of the Common*wealth Bureau of Census and Statistics, April 1967, available free on request from the Commonwealth Statistician, Canberra. This contains a list of all Bureau publications, a subject index to show the central office publications in which information on the various subjects dealt with by the Bureau is to be found, and short descriptions of major central office publications. The information on issues in this publication is supplemented in monthly statements.

Commonwealth and State Parliamentary and Departmental Reports and Papers

No comprehensive list of current publications of this nature is available, but the National Library of Australia issues an annual publication *Australian Government Publications*, a list of official publications of the Commonwealth, States and Territories, compiled from records of material received by the Library during the year.

The Publications Branch of the Commonwealth Government Printing Office, Canberra, issues a monthly publication Commonwealth Publications and at irregular intervals Commonwealth Publications Consolidated List. These publications list Commonwealth publications currently becoming available or in stock, showing the titles and prices of Parliamentary Papers, Parliamentary Debates (Hansard), records of Parliamentary proceedings, Acts, Statutory Rules, Ordinances, and departmental bulletins and reports issued annually or irregularly.

The National Library of Australia issues annually a publication Australian Books, a reprint of the 1966 issue of which is included on pages 1231–1277. See page 629 of the chapter Education, Cultural Activities and Research for further information concerning the National Library's publicising of Australian publications.

Publications issued by the Deputy Commonwealth Statisticians

A list of the current publications issued by the Deputy Commonwealth Statistician of each State appears in *Publications of the Commonwealth Bureau of Census and Statistics*, April 1967, and this information is supplemented also in the monthly statements mentioned above.

36th Session of The International Statistical Institute

On the invitation of the Government of the Commonwealth of Australia the 36th biennial Session of The International Statistical Institute was held at the Wentworth Hotel, Sydney, from 28 August to 7 September 1967. It was the first occasion in the 82-year history of the Institute that a meeting had been held in Australia, and the Commonwealth Government was the twentythird national government to act as host to one of the Institute's biennial sessions.

The International Statistical Institute is the leading international scientific academy in the field of statistics. Its objectives are to develop and improve statistical methods; to foster the exchange of professional knowledge among statisticians; to encourage statistical research and the proper use of statistical methods; and to foster public appreciation of sound statistical practices. The Institute also plays an important role in statistical education and conducts statistical tical education centres in Beirut and Calcutta.

An Australian Organising Committee was established under the chairmanship of the Commonwealth Statistician, Mr K. M. Archer, to make all arrangements for the 36th Session. Invitations were extended to members of the Institute and to representatives of national and international organisations and societies affiliated with the Institute. In addition, national governments with whom Australia maintains diplomatic relations were invited to send delegations to the Session, and a number of leading statisticians who were not members of the Institute were also invited to participate. A total of 362 delegates from 45 countries attended the Session, 153 of these being residents of Australia. The Session was formally opened on 29 August 1967 by His Excellency the Governor-General of the Commonwealth of Australia, Lord Casey.

A total of 116 technical papers were presented at the Session. Of these, 45 were submitted by eminent statisticians who were specially invited to prepare papers for the Session and 71 were contributions from members of the Institute and non-members who attended the meetings. A list of the papers, together with the author and the author's country of residence, is shown at the end of this section.

During the course of the Session twenty-four separate scientific meetings were held and papers on the following topics were presented and discussed:

Standardisation of Procedures for Evaluation of Data; Unsolved Problems in Biometrics; Distribution-free Methods; Economic Statistics; Statistical Measurement of the Supply and Utilisation of Natural Resources; Statistical Theory and Method—Relationships and Multivariate Methods; Statistical Theory and Method—Estimation and Testing; Design and Analysis of Non-experimental Enquiries; Statistics in the Physical Sciences; Problems of Statistical Development in Developing Countries; Data Storage and Linkage; Statistical Theory and Method—Design of Experiments; Statistical Theory and Method—Sampling; Appraising the Demands for and Utilisation of Official Statistics; Statistical Theory and Method—Time Series and Stochastic Processes; Income Distribution; University and Non-university Training in Statistics.

In accordance with tradition, the Australian Organising Committee arranged a statistical exhibition in conjunction with the 36th Session. National statistical offices, together with national and international statistical organisations and societies, were invited to exhibit. The exhibition included official statistical publications, journals and textbooks, and for each exhibiting national statistical office a chart showing the organisation of official statistical services. In addition, several exhibitors, including Australia, provided graphs of economic and social statistics for display. The Australian exhibit included also a series of panels illustrating the development of the Australian official statistical system.

The Proceedings of the 36th Session are at present being prepared and are expected to be published in two-volume form early in 1969. The Proceedings will include a record of the papers presented and associated discussion during the technical meetings, together with details of some organisational features of the Session, including a list of participants and details of the general programme.

The 36th Session provided a unique opportunity for Australian statisticians to meet with their colleagues from overseas countries and discuss problems of common interest and concern. While the tangible results of the Session will be evident from the Report of the Proceedings, the intangible results of personal contact and discussion which took place outside the Session will be of considerable value to statisticians in Australia.

TECHNICAL PAPERS PRESENTED AT THE 36TH SESSION OF THE INTERNATIONAL STATISTICAL INSTITUTE

INVITED PAPERS

- R. BACHI, R. BARON and G. NATHAN (Israel)—Methods of Record-Linkage and Applications in Israel.
- B. G. BANTEGUI (Philippines)—Perspectives of Statistical Development in the Developing Countries of Asia and the Far East.
- Ch. A. BICKING (U.S.A.)—Statistics in the Selection and Control of Research and Development Projects.
- J. G. BOLTON (Australia)-Statistics of Extragalactic Radio Sources.
- K. G. BROLIN (Sweden UNESCO)—Statistics on Science and Technology in Developing Countries.

VOILET R. CANE (United Kingdom)—Random Walks and Physical Processes.

- V. J. CHACKO (India)-Problems in Statistical Assessment of Forest Resources and Products.
- D. G. CHAPMAN (U.S.A.)-Statistical Problems in the Optimum Utilization of Fisheries Resources.

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- T. E. DALENIUS (Sweden)-Official Statistics and their Uses.
- G. de MEO (Italy)—Incomes and Expenditure of Italian Families on the Basis of the Results of a Recent Survey.
- R. DUMAS and S. RONCHETTI (France EEC)-Les revenus des ouvriers dans le Marché commun.
- W. J. EWENS (Australia)---The Transient Behaviour of Stochastic Processes, with Applications in the Natural Sciences.
- A. M. FLORES (Mexico)-Problems in the Development of Economic and Social Statistics.
- S. A. GOLDBERG (Canada)—The Demand for Official Statistics and Their Utilization in Canada with Special Reference to the Role of the National Accounts.
- J. HABR (Czechoslovakia)—From Central Planning to Socialist Marketing: Problems of Information Systems.
- E. J. HANNAN (Australia)—Fourier Methods and Random Processes.
- M. H. HANSEN, W. N. HURWITZ and L. PRITZKER (U.S.A.)—Standardization of Procedures for the Evaluation of Data: Measurement Errors and Statistical Standards in the Bureau of the Census.
- M. H. HANSEN and R. B. VOIGHT (U.S.A.)—Program Guidance Through the Evaluation of Uses of Official Statistics in the United States Bureau of the Census.
- W. HOEFFDING (U.S.A.)-Some Recent Developments in Nonparametric Statistics.
- E. E. HOUSEMAN and H. C. TRELOGAN (U.S.A.)-Progress Towards Optimizing Agricultural Area Sampling.
- INSTITUTE OF STATISTICIANS (United Kingdom)—Institute of Statisticians Training for Professional Statisticians.
- J. N. R. JEFFERS (United Kingdom)—The Contribution of Statistical Methods to Forest Research and Management.
- M. MAESTRE (France)—Sur un modéle des échanges entre la recherche et la production et les problèmes statistiques connexes.
- B. MATÉRN (Sweden)-Sample Survey Problems.
- T. MATSUDA (Japan)-Development of Agricultural Statistics in Japan.
- S. MAZUMDAR (Italy FAO)—Some Problems of Developing Agricultural Statistics in Developing Countries.
- M. A. Mód (Hungary)—Comprehensive Income Statistics System in Hungary (Socio-economic Stratification and Income Distribution).
- F. MOSTELLER (U.S.A.)-Statistical Comparisons of Anesthetics: the National Halothane Study.
- S. NORDBOTTEN (Norway)—Purposes, Problems, and Ideas Related to Statistical File Systems.
- I. OHLSSON (Sweden)-Merging of Data for Statistical Use.
- E. N. OMABOE and K. T. de GRAFT-JOHNSON (Ghana)—Possibilities for Evaluation of Census or Survey Data in Developing Countries.
- YU. V. PROHOROV (U.S.S.R.)—Newest Investigations on Distribution-free Methods in the U.S.S.R.
- B. RAMAMURTI (India)—Appraisal of the Demands for and Uses of Official Statistics: with Special Reference to Developing Countries.
- A. RÉNYI (Hungary)-On some Problems in the Theory of Order Statistics.
- H. E. RILEY (U.S.A.)-Statistics of Research and Development in the United States.
- H. S. SICHEL (South Africa)—Application of Statistical Techniques to the Evaluation of Mineral Deposits.
- W. R. SIMMONS (U.S.A.)-Analysis of Bias in Interview-Reported Hospital Experience.
- J. STEINBERG and L. PRITZKER (U.S.A.)—Some Experiences with and Reflections on Data Linkage in the United States.
- R. STONE (United Kingdom)—The Generation, Distribution and Use of Income.
- K. SZAMEITAT and R. DEININGER (Germany)—Some Remarks on the Problem of Errors in Statistical Results.
- C. TAEUBER (U.S.A.)-The Development of Population Censuses and Vital Statistics.
- E. J. WILLIAMS (Australia)-The Development of Biomathematical Models.
- W. T. WILLIAMS and G. N. LANCE (Australia)—Application of Computer Classification Techniques to Problems in Land Survey.

MISCELLANEOUS

- H. O. WOLD (Sweden)—Non-experimental Statistical Analysis from the General Point of View of Scientific Method.
- S. S. ZARKOVICH (Yugoslavia FAO)-A System of Statistical Quality Codes.

CONTRIBUTED PAPERS

- G. N. ALEXANDER and A. B. SUSTS (Australia)—The Logarithmic Transformation and its Application to Hydrologic Data.
- B. BARBERI (Italy)-Some Problems on the Statistical Measurement of Capital.
- R. E. BARLOW (U.S.A.)-Likelihood Ratio Tests for Restricted Families.
- R. BARTOSZYŃSKI (Poland)-A Model of Age Dependent Inheritance of Cancer-proneness.
- D. BASU and J. K. GHOSH (India)—Sufficient Statistics in Sampling from a Finite Universe— Part I.
- T. N. BHARGAVA and S. D. CHATTERJI (U.S.A.)—Mathematical Models in Management Sciences: Consumer Behaviour as a Markov Process.
- T. N. BHARGAVA and D. L. FISK (U.S.A.)-Random Graphs and Probability Models.
- F. BURKHARDT and L. OSADNIK (Germany)—Standardisierung von Differentialgleichungen für die Auswertung von ökonomischen und demographischen Daten.
- J. M. CALLIES (Madagascar)—Les problèmes de l'expansion statistique dans les pays en voie de développement.
- H. CHERNOFF (U.S.A.)-Bounds on the Efficiency of a Classification Procedure.
- G. R. CHEVRY (France)-Avenir des enquêtes officielles.
- D. R. Cox (United Kingdom)—Some Results Connected with the Logistic Binary Response Model.
- H. A. DAVID and R. S. MISHRIKY (U.S.A.)—Order Statistics For Discrete Populations and for Grouped Samples.
- P. J. DELAPORTE (France)—Etude de la corrélation entre plusieurs caractères mesurés avec des erreurs de connaissance.
- J. DURBIN (United Kingdom)—Tests of Serial Independence Based on the Cumulated Periodogram.
- I. ESENWEIN-ROTHE (Germany)—University Training in Economic Statistics.
- L. FÉRAUD (Switzerland)—Modèles d'évolution d'un personnel d'après l'âge et le salaire. Stationnariété et stabilité.
- R. W. FERGIE and K. M. ARCHER (Australia)—Official Statistics in the Decision-making Process with Special Reference to Problems of Urban Growth.
- I. S. FRANCIS (U.S.A.)-Selecting and Assessing Variables in the Classification Problem.

V. P. GODAMBE (U.S.A.)—A Fiducial Argument with Application to Survey-Sampling.

- W. M. HARPER (Australia)—The Distribution of the Mean Half-Square Successive Difference.
- L. HARRIS (U.S.A.)-On Interdependent Decision Problems.
- H. O. HARTLEY and J. N. K. RAO (U.S.A.)-A New Approach to the Classification Problem.
- T. HATORI (Japan)-On Some Considerations of the Learning Models and Related Problems.
- F. E. HOBSON (Canada)-A Contribution to Mathematical Modelling for Health Services.
- F. B. HORNER (Australia)—Training of Professional Staff within the Commonwealth Bureau of Census and Statistics.
- R. A. HORVÁTH (Hungary)—The Contribution of Netherlandish Thinking to the Formation of Statistics as an Autonomous Discipline.
- H. M. HUSEIN and A. E. SARHAN (U.A.R.)—A Study of the Relationship of Height and Weight with Age of School Children in U.A.R.
- INSTITUTO NACIONAL DE ESTADÍSTICA DE ESPAÑA (Spain)—Ordenación de las Estadísticas Para la Planificación Económica.
- K. JOGDEO and G. P. PATIL (U.S.A.)—Characterization of Independence in Bivariate Families with Regression Dependence.
- P. W. M. JOHN (U.S.A.)-Extending the Cubic Association Scheme.
- S. JOHN (Australia)—A Central Tolerance Region for the Multivariate Normal Distribution.
- L. KATZ (U.S.A.)-Statistical Decision: Theory versus Application, Exemplified in Smoking-Health Controversy.

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- S. H. KHAMIS (Lebanon)—Some Problems Relating to the International Comparability and Fluctuations of Production Volume Indicators.
- S. KORENAGA (Japan)--Chronological Series Analysis of Economic Statistics and its Stochastic Foundation.
- D. B. LAHIRI (India)—The Indian National Sample Survey—The Strategy for Analytical Studies: Design Aspects.
- H. O. LANCASTER (Australia)-The Infection and Population Size in Australia.
- M. R. LEADBETTER (U.S.A.)—On the Distributions of the Times Between Events in a Stationary Stream of Events.
- E. LUKACS (U.S.A.)-Some Properties of Stable Frequency Functions.
- G. MALECOT (France)-Conséquences statistiques de la parenté.
- R. C. MILTON (U.S.A.)-Sequential Two-Sample Rank Tests of the Normal Shift Hypothesis.
- H. V. MUHSAM (Israel)-The Population Factor in the Income Pyramid.
- C. S. OKUNO and T. OKUNO (Japan)—A Computer Programme for the Analysis of 3ⁿ-type Fractional Factorial Designs.
- HONG NAI PARK (Korea)—A Partial Retention Scheme for Multi-stage Sampling on Successive Occasions.
- E. PARZEN (U.S.A.)-System Identification by Time Series Methods.
- H. D. PRIDMORE (Australia)—Elements of a Set-theoretic Approach to Data Storage and Linkage.
- M. L. PURI (U.S.A.)-The van Elteren W test and Non-null Hypothesis.
- C. R. RAO (India)—On Vector Variables with a Linear Structure and a Characterization of the Multivariate Normal Distribution.
- R. A. REYMENT (Sweden)—A Multivariate Paleontological Growth Problem.
- L. ROSENBERG (U.S.A.)-Estimation of the Parameters of the Weibull Distribution from Attribute Data.
- T. V. RYABUSHKIN (U.S.S.R.)—Specific Features of Interindustry Balance-sheet Construction in the Soviet Union.
- A. E. SARHAN (U.A.R.) and B. G. GREENBERG (U.S.A.)—Linear Estimates for Doubly Censored Samples from the Exponential Distribution with Observations Also Missing from the Middle.
- J. SETHURAMAN (India)—Stopping Time of a Rank-order Sequential Probability Ratio Test Based on Lehmann Alternatives—II.
- N. C. SEVERO (U.S.A.)-Generalizations of Some Stochastic Epidemic Models.
- L. R. SHENTON and K. O. BOWMAN (U.S.A.)—Sampling Moments of Moment and Maximum Likelihood Estimators for Discrete Distributions.
- W. L. SMITH (U.S.A.)-Remarks on Renewal Theory when the Quality of Renewals Varies.
- I. STEFANOV (Bulgaria)-Statistische Grundlagen zur Erforschung der Innenwanderung.
- M. A. STEPHENS (Canada)—A Goodness-of-fit Statistic for the Circle, with Some Comparisons.
- M. S. SRIVASTAVA (Canada)-Some Sequential Tests for Student's Hypothesis.
- A. B. SUNTER and I. P. FELLEGI (Canada)-An Optimal Theory of Record Linkage.
- G. TAGLIACARNE (Italy)-Nécessité du calcul du revenu national par région.
- P. THIONET (France)—Emploi d'une suite markovienne (processus markovien non-homogène à temps discret) pour retrouver quelques tests non paramétriques connus.
- L. THIRRING (Hungary)-Historical Statistics and the International Statistical Institute.
- J. TORRENS-IBERN (Spain)-Un nouveau test d'homogénéité pour échantillons multiples.
- D. S. TRACY (Canada)-Pattern Coefficients for Products of Generalized k-Statistics.
- D. VERE-JONES (Australia)-Statistical Methods in the Analysis of Earthquake Data.
- A. VESSEREAU (France)-Le centre de formation aux applications industrielles de la statistique.
- J. W. E. Vos (Netherlands)-Variance Estimators in Systematic Sampling.
- G. S. WATSON (Australia)-Some Problems in the Statistics of Directions.
- P. WHITTLE (United Kingdom)—Nonlinear Migration Processes.
- W. WINKLER (Austria)-Real Versus Nominal Age.