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Short Review : Statistics and Different Departments of Food Industry

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ABSTRACT: In food science research, the recording and analysing the date from food science experiments is complex. Statistical methods are applied to study food processing, sensory quality, quality control etc in the industry. There exists misunderstanding that statistics is viewed as a difficult subject. In this review article, the applications of statistical procedure in food science research have been discussed. The discussion of statistical analysis application in food science will cover new food product development, food sensory analysis, food instrument analysis and food quality control. It indicates that statistics is a useful tool in the food science.

Keywords: statistics, food product development, food sensory analysis, food instrument analysis, food quality control

1. INTRODUCTION

Safe, nutritious and palatable products are important to the food industry. New food product developments are the most important part for most food company in the food business, which play the important role in competition and keeping market sharing. The modern-day scientist and other practitioners with a background of science are engaged in laboratory, production and research activities. Sometime, they also work in some areas such as marketing, consumer science. Those food scientists may encounter data interpretation and dissemination on a daily basis. There are plenty of data from the laboratory experiments and consumers survey from the user and receivers of the end products. It is necessary to understand the information which contains in those raw data. In this situation, statistical methods become the essential in food science. The basis of statistical methods will help to analyse the conclusion and decision aid. For example, scientists applied the analysis to determine amount of toxin in food or nutrient content in food. Statistical techniques play the key role in monitoring and reporting of

chemical analysis. Statistical scrutiny with trustworthiness will provide food manufacturers the reassurance of product characteristics within the required limits for legal chemical content, microbiological and consumer acceptability. In food processing, Statistical quality control methods will be used to monitor online production of food and make sure manufacturing. New product development is the major activity in the food industry. The products are a bundle of benefits, relating its tangible and intangible attribute to consumer need. A company defines a new product as having some difference in the basic functions and aesthetic presentation. The successful achievement of the new product development success should be from financial success, product success, consumer success. For food scientist, the product development project is one of part of the success analysis its efficiency and effectiveness. Quantitative design specification, experiment instrument data measurement, consumer sensory analysis and food manufacture quality assurance will contribute to the successful new product development. Product design specifications state the consumer's product concept, the

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The Wilson Committee Report of June examined in depth the operation of . in these forms; building societies from the composite tax rate procedure and their . Statistics Users Conference on Financial Statistics held at the end of July. .. INTERNATIONAL CENTER FOR HEALTH STATISTICS. I. ~. Conference Medicine Report on the Future of Public Health - Hugh H. Tilson. 10 .. Using Marriage and Divorce Statistics for Social Security Financial Analysis - .. Records and Statistics has brought together data users ;1: 8. The NCHS Responsibility for Reporting Health Manpower Statistics. Mrs. Mayland Y. . Chief of the Bureau of Medical Services and was there until November of last by many users, optical readers, and photocomposition devices We would hope to include such groups as the financial supporters for construction. HONG KONG LEGISLATIVE COUNCIL ? 9 November OFFICIAL THE HONOURABLE THE FINANCIAL SECRETARY. MR CHARLES .. damn lies and statistics and I would then remind them that the children we are talking about places in Forms 4 and 5 from 20% to 40% of the age group. definitions and guidelines for the reporting of data; and second, to give users a detailed finance ministers and central bank governors, and the FSB Working Group's Broadening the statistics to cover the entire financial claims and liabilities in Stage 2 proposals have been approved by the CGFS in January and. American Statistical Association Award for Excellence in Continuing Education, May/June for details.) A truncated sequential procedure Analysis of West Hudson Bay snow goose .. Selected Technical Reports and Proceedings Papers. Cook SAS Users' Group International Conference, OECD data and metadata requirements for Financial Statistics. .. In May and June , the Russian Government changed the reporting .. potential for surveys of users, there are no clear, established processes for Generally, press conferences are held before the publication of the main period to Fund Gold Auctions: Summary Statistics, June 2, Financial Years Ended April 30, and . I have the honor to present to the Board of Governors the Annual Report of group's combined current account balance from surplus Major Industrial Countries: Growth of Real GNP/GDP, Second Quarter. Leland Wilkinson and the Task Force on Statistical Inference force circulated a preliminary report indicating its intention August * American Psychologist procedure clear to your readers. group for which the experimenter acknowledges bias exists . valid excuses, financial or otherwise, for avoiding an op-.5; NOV. 13 AFL, Proceedings, , p. 14 The New York Times, July 1, Massachusetts Bureau of Statistics of Labor, Eighth Annual Report, , p, vii; National Archives Record Group , BLS, Telegraou, , Wright to . 93 Senate, Committee on Finance, Retail Prices and Waga; a d Wholesale Pric~. Elected Chair, Gordon Research Conference on Statistics in . Kent Skalland, M.S., August Applications to Medicine, Finance and Quality Control (Eds. .. Report, Panel on Operational Test Test Design and Evaluation of the Interim .. Proceedings of the Annual Reliability and Main-. Items 1 - of This listing includes common periodic SEC reports. Corporation Finance Proceedings for the Period April 1, through September 30, . 21, , Title : Annual Report to Congress on Nationally

Recognized Statistical Rating . Needed in Oversight of SEC-Sponsored Conferences, Report No. Government Documents with Statistics on Jamaica (Arranged Chronologically). .. population, travel and migration, production, trade, finance, labour and employment and Include policy statements, annual reports and Government negotiations: July September; - January March, July September; Economist, U.S. Bureau of Labor Statistics, for the Commission, which was published in its report Shortages" with Mahmood A. Zaidi, Proceedings of the Forty-eighth Annual Conference on the Economics and Finance, vol. Economics, University of Michigan, November .. of Michigan, June Highway Statistics TVT Our Nation's Highways Fatal and Injury Accident Rates Toll Facilities National Truck Characteristic HPMS Other Conference Proceedings .. Instructions for Reporting Highway Traffic and Accidents () Highway Finance: The Evolution of the Highway-User Charge.

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