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Scanner Data and Price Indexes

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Scanner Data And Price Indexes

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Yu**

Scanner Data And Price Indexes:

Scanner Data and Price Indexes Robert C. Feenstra, Matthew D. Shapiro, 2007-11-01 Every time you buy a can of tuna or a new television its bar code is scanned to record its price and other information These scanner data offer a number of attractive features for economists and statisticians because they are collected continuously are available quickly and record prices for all items sold not just a statistical sample But scanner data also present a number of difficulties for current statistical systems Scanner Data and Price Indexes assesses both the promise and the challenges of using scanner data to produce economic statistics Three papers present the results of work in progress at statistical agencies in the U S United Kingdom and Canada including a project at the U S Bureau of Labor Statistics to investigate the feasibility of incorporating scanner data into the monthly Consumer Price Index Other papers demonstrate the enormous potential of using scanner data to test economic theories and estimate the parameters of economic models and provide solutions for some of the problems that arise when using scanner data such as dealing with missing data

Generalized Fisher Price Indexes and the Use of Scanner Data in the CPI, 2001 Statistics Netherlands intends to use scanner data provided by retailers in compiling the CPI This has two important advantages First taking a sample of items to estimate the commodity group price index for a particular type of outlet becomes unnecessary Second the Laspeyres type index formula currently applied can be replaced by an index formula that is better suited for handling dynamic aspects such as commodity substitution and the introduction of new goods The present paper suggests the use of a so called generalized Fisher price index based on a set of goods that is variable through time This index contains prices of new and disappearing goods that cannot be observed directly and that should therefore be imputed The relation with quality adjustment procedures is addressed as well Key words Consumer price index Imputation New goods Quality adjustment Scanner data Substitution

Scanner Data-Based Panel Price Indexes Chenhua Zhang, Eric A. Finkelstein, Shawn Karns, Ephraim Leibtag, 2020 We construct panel price indexes using retail scanner data that allow comparisons of consumption cost across space and time Two types of panel indexes are examined the rolling window panel extensions of the multilateral Cave Christensen Diewert index with the Tornqvist index as its elements and of the multilateral Gini Eltet Kves Szulc index using the Fisher ideal index as its elements The rolling window method maintains the nonrevisability of published index numbers while allowing index numbers for new periods and locations to be calculated and the basket of items to be updated Meanwhile the multilateral structure of price comparison eliminates significant downward drift in standard chained indexes Using county level bilateral and panel indexes based on retail beverage scanner data we experimentally adjust for purchasing parity the portion of Supplemental Nutrition Assistance Program SNAP benefits that participants spend on beverages Accounting for temporal and spatial cost differences causes over 2% of SNAP allotment spent on beverages to be reallocated or approximately a 5% change in allotment on average for a county About 90% of the relocated SNAP fund is to adjust for spatial differences in food cost We also compare SNAP

allotments implied by the retail scanner data indexes with those implied by indexes based on the USDA Quarterly Food at Home Price Database QFAHPD The treatment of unit values and product quality may have contributed to the significant differences observed between the retail scanner data indexes and the QFAHPD indexes

Scanner Data, Time Aggregation and the Construction of Price Indexes Lorraine Ivancic, Walter E. Diewert, Kevin J. Fox, 2009

Potential Uses of Scanner Data in the Production of Price Indexes Hugh Scobie, 1998

Using Scanner Data in the Consumer Price Index Jack E. Triplett, 2003

Non-Linear Pricing and Price Indexes Kevin J. Fox, Daniel Melser, 2014

Non linear pricing the fact that prices do not necessarily change in proportion to size is a ubiquitous phenomenon However it has been neither particularly well understood nor well measured Non linear pricing is of practical importance for statistical agencies who in constructing price indexes are often required to compare the relative price of a product variety of two different sizes It is usually assumed that prices change one for one with package and pack size e g a 1 liter cola costs half as much as a 2 liter bottle We question the wisdom of such an assumption and outline a model to flexibly estimate the price size function Applying our model to a large U S scanner dataset for carbonated beverages at a disaggregated level we find very significant discounts for larger sized products This highlights the need to pursue methods such as those advocated in this paper

Potential Uses of Scanner Data [electronic Resource] : a Case Study Using Coffee Data Statistics Canada. Prices Division, Scobie, Hugh, 1998

A Computer Software Price Index Using Scanner Data Marc Prud'homme, Dimitri Sanga, Kam Yu, 2014

In the last 20 years the expenditure share of prepackaged software in the national output has grown The large number of characteristics in computer software make hedonic regression techniques impractical for purposes of controlling for quality changes In this study matched model price indices are constructed using monthly scanner data on prices and unit values for various prepackaged computer software titles and categories sold in Canada from January 1996 to June 2000 Quality differences are controlled for by applying the maximum overlap method Results show that prices declined during the period studied at an average annual rate of 5.9%

Sampling in Consumer Price Indices, 2002

High-frequency Substitution and the Measurement of Price Indexes Robert C. Feenstra, Matthew David Shapiro, 2001

This paper investigates the use of high frequency scanner data to construct price indexes In the presence of inventory behavior purchases and consumption by individuals differ over time Cost of living indexes can still be constructed using data on purchases For weekly data on canned tuna the paper contrast two different types of price indexes fixed base and chained indexes Only the former are theoretically correct and in fact the chained indexes have a pronounced upward bias for most regions of the U S This upward bias can be caused by consumers purchasing goods for inventory The paper presents some direct statistical support for inventory behavior being the cause of the upward bias though advertising and special displays also have a very significant impact on shopping patterns

Using Scanner Data to Improve the Quality of Measurement in the Consumer Price Index William J. HAWKES, 2003

Journal of Economic and Social

Measurement ,2005 *Handbook on Hedonic Indexes and Quality Adjustments in Price Indexes* Jack E. Triplett,2006-10-05 This handbook compares and contrasts two methods employed in price indexes to adjust for quality change conventional quality adjustment methods and hedonic price indexes The latter are often used in price indexes for information and communication technology ICT products in several OECD countries as well as for measuring prices for some other goods and services notably housing The handbook aims to contribute to a better understanding of the merits and shortcomings of these methods and to provide an analytic basis for choosing among them **Using Scanner Data to Compile Price Indices** ,2001 Actes de la Session International Statistical Institute,1999 Sampling in Consumer Price Indices David Fenwick,Adrian Ball,United Kingdom. Central Statistical Office,2001 *Flexible decomposition of price promotion effects using store-level scanner data* Harald J. van Heerde,Peter S. H. Leeflang,Dick R. Wittink,Marketing Science Institute,2002 Journal of Official Statistics ,2005 **Estimation of the Coffee Price Index Using Scanner Data: Simulation of Official Practices** ,1997 With the use of Nielsen scanner data on coffee sales Statistics Netherlands is undertaking empirical research into the effects of alternative micro indexes and different commodity sampling designs on the Laspeyres type consumer price subindex of coffee In this paper is shown how scanner data may be used to approximate official concepts in constructing such an index

Unveiling the Magic of Words: A Overview of "**Scanner Data And Price Indexes**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Scanner Data And Price Indexes**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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