

COMPUTERIZED COSTING MODEL FOR INLAND WATERWAYS BARGE TRANSPORTATION*

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ABSTRACT. Shippers and carriers are constantly in need of substantial amounts of transportation cost information: shippers are looking for the most economical means of moving freight; carriers need information to determine rates that attract or retain business.

The model presented in this paper calculates the costs associated with shipping by barge via the Inland Waterways System. It does so with great improvements in time, money and accuracy over a previously used manual method.

Introduction

Many companies, having exhausted the large savings potentials in production areas in their present operations, are turning to other areas to reduce business costs. Transportation is one of these areas that promises tremendous savings. The computer provides the means for obtaining the information necessary to take advantage of situations where inroads to cost savings can be made.

On the other side of the transportation coin, carriers are finding competition more and more intense. This is especially true in the case of competing modes of transportation. Computer information can provide the edge a carrier needs to retain his current business, as well as attract new customers.

This article will deal with a computer program which provides cost information on barge movements on the Inland Waterways System. The model underlying the program covers the entire concept of barge costing, including linehaul costs, terminal costs at the origin, as well as the destination, cargo insurance, and inventory expenses for both general and dedicated towing services.

The model and its advantages

The barge costing program is currently being used in its latest form by both the Phillips Petroleum Company and the Missouri Pacific Railroad. It was modeled on a manual method previously developed for the same purpose. The advantages do not come from an improved method, but rather from time savings, a savings in the cost of generating data, and the elimination of errors in calculation.

*Extracted from an unpublished Master's thesis by Marc L. Smith, "A Model for Barge Cost Optimization," University of Missouri-Rolla, 1977.

Manual For Completion Of Computerized Transportation

Adarshpal S. Sethi, Vasil Y. Hnatyshin



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Instructions for Completing the Annual Survey of Manufactures Report, 1988, 1988 **The Practical OPNET User Guide for Computer Network Simulation** Adarshpal S. Sethi, Vasil Y. Hnatyshin, 2012-08-24 One of the first books to provide a comprehensive description of OPNET IT Guru and Modeler software The Practical OPNET User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks The included laboratory projects help readers learn different aspects of the software in a hands on way Quickly Locate Instructions for Performing a Task The book begins with a systematic introduction to the basic features of OPNET which are necessary for performing any network simulation The remainder of the text describes how to work with various protocol layers using a top down approach Every chapter explains the relevant OPNET features and includes step by step instructions on how to use the features during a network simulation Gain a Better Understanding of the Whats and Whys of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text The projects describe the overall goals of the experiment discuss the general network topology and give a high level description of the system configuration required to complete the simulation Discover the Complex Functionality Available in OPNET By providing an in depth look at the rich features of OPNET software this guide is an invaluable reference for IT professionals and researchers who need to create simulation models The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network Report of the Chief of the Bureau of Public Roads United States. Bureau of Public Roads, 1961 Work of the Public Roads Administration United States. Bureau of Public Roads, 1965 Innovation in Public Transportation, 1974 Highway Progress United States. Bureau of Public Roads, 1963 **Lowe's Transport Manager's and Operator's Handbook 2014** David Lowe, Clive Pidgeon, 2014-03-03 This best seller for busy fleet operators now in its 44th edition provides essential information and advice on transport legislation technical standards and goods vehicle operations Lowe's Transport Manager's and Operator's Handbook is a truly comprehensive guide to the legal operational and environmental factors that are of the utmost importance in today's road transport industry including professional competence working times and driving hours rules speed cameras and penalties the international road haulage market and drugs testing for drivers The Handbook is the essential reference source for any transport manager fleet operator owner driver haulier or student with an involvement in the industry **Annual Department of Defense Bibliography of Logistics Studies and Related Documents** United States. Defense Logistics Studies Information Exchange, 1967 *Computer-Integrated Manufacturing Handbook* V.D. Hunt, 2012-12-06 Manufacturing has entered the early stages of a revolutionary period caused by the convergence of three powerful trends The rapid advancement and spread of manufacturing capabilities worldwide has created intense competition on a global scale The emergence of advanced manufacturing technologies is dramatically

changing both the products and processes of modern manufacturing. Changes in traditional management and labor practices, organizational structures and decision making criteria represent new sources of competitiveness and introduce new strategic opportunities. These trends are interrelated and their effects are already being felt by the U.S. manufacturing community. Future competitiveness for manufacturers worldwide will depend on their response to these trends. Based on the recent performance of U.S. manufacturers, efforts to respond to the challenges posed by new competition technology and managerial opportunities have been slow and inadequate. Domestic markets that were once secure have been assailed by a growing number of foreign competitors producing high quality goods at low prices. In a number of areas such as employment, capacity utilization, research and development expenditures and capital investment trends in U.S. manufacturing over the last decade have been unfavorable or have not kept pace with major foreign competitors such as Japan. There is substantial evidence that many U.S. manufacturers have neglected the manufacturing function, have overemphasized product development at the expense of process improvements and have not begun to make the adjustments that will be necessary to be competitive. *Urban Transportation Abstracts*, 1987 **Department of Transportation and Related Agencies**

Appropriations for 1975 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Transportation and Related Agencies Appropriations, 1974 *Urban Mass Transportation Abstracts*, 1972

Computer-Aided Transit Scheduling Joachim R. Daduna, Anthony Wren, 2012-12-06 This volume consists of papers presented at the Fourth International Workshop on Computer Aided Scheduling of Public Transport which was held in Hamburg from 28th to 31st July 1987. The first of this series of Workshops was held in Chicago in 1975. Papers presented then tended to look forward to what might be done in the future application of computers to problems in transit scheduling. No presentations described systems which had been implemented and were being used on a regular basis although a few papers discussed apparently successful one off applications in both bus scheduling and bus crew scheduling or run cutting. However within a few months of the end of that first workshop some systems had been implemented both in Europe and in North America. By the time of the second Workshop in Leeds in 1980 several systems were in regular use. Most of the crew scheduling implementations were based on heuristic methods e.g. RUCUS although mathematically based methods were being used in Quebec City and in Hamburg and several papers described further mathematical methods in the course of development. A wide variety of bus scheduling approaches was reported many of them being in regular use.

Computer-aided Scheduling and Dispatch in Demand-responsive Transit Services David S. Kessler, Transit Cooperative Research Program, 2004 The scope of this synthesis is to 1 search out useful information on the use of computer aided scheduling and dispatch (CASD) in demand responsive transit (DRT) services 2 develop an amalgamation or compendium of the current knowledge and successful practices used in computerizing the functions necessary to efficiently and effectively operate such DRT services and 3 report on measures used to resolve specific problems in planning and implementing CASD

The ultimate objective in compiling a considerable storehouse of information is to make this information available to the public transit community. Private and nonprofit organizations that are providing DRT services will similarly benefit from a review of these results.

Reporting Manual for the ... Section 15 Report Year United States. Federal Transit Administration, 1994

Annual Report on Hazardous Materials Transportation, 1991

Directory of Research, Development & Demonstration Projects, 1978

Standard and Optional Forms Facsimile Handbook, 1992

11th National Computer Security Conference, 1988

Overview of DOT's R. & D. Programs United States. Congress. House. Committee on Science and Technology. Subcommittee on Aviation and Transportation R. & D., 1975

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