

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\*Extracted from an unpublished Master's thesis by Marc L. Smith, "A Model for Barge Cost Optimization," University of Missouri-Rolla, 1977.

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