



An updated input-output study of Montana
by Donald Orville Mitchell

A thesis submitted to the Graduate Faculty in partial fulfillment of the requirements for the degree of
MASTER OF SCIENCE in Agricultural Economics
Montana State University
© Copyright by Donald Orville Mitchell (1971)

Abstract:

One of the major problems facing regional input-output studies, is the lack of an efficient method for updating the existing input-output tables. This thesis updates the 1963 Montana Input-Output tables and examines the problems of such an undertaking.

The basic characteristics of a technical coefficient are explored and these characteristics are used to develop a new updating method. The technical coefficients are shown to support the assumption of temporal constancy. Two techniques using sequential sampling are developed to test and update technical coefficients. Both techniques derive their precision from the importance of the technical coefficient as shown by sensitivity analysis of the coefficients on input-output projections. This permits a table to be developed with each coefficient assuming approximately the same level of importance for projection purposes. The technique for updating a technical coefficient is demonstrated on primary data and found to be reasonably good, but requiring additional modifications.

PERMISSION TO COPY

In presenting this thesis in partial fulfillment of the requirements for an advanced degree at Montana State University, I agree that the Library shall make it freely available for inspection. I further agree that permission for extensive copying of this thesis for scholarly purposes may be granted by my major professor, or, in his absence, by the Director of Libraries. It is understood that any copying or publication of this thesis for financial gain shall not be allowed without my written permission.

Signature

Donald Orrville Mitchell

Date

August 13, 1971

AN UPDATED INPUT-OUTPUT STUDY OF MONTANA

by

DONALD ORVILLE MITCHELL

A thesis submitted to the Graduate Faculty in partial
fulfillment of the requirements for the degree

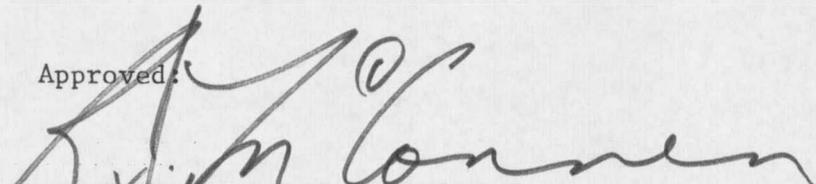
of

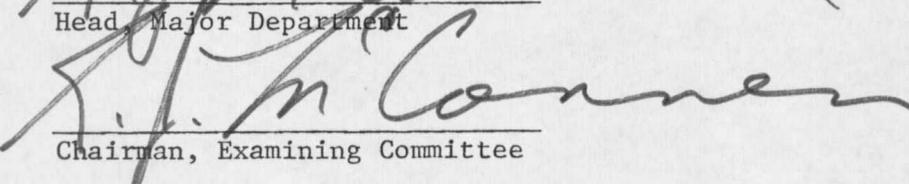
MASTER OF SCIENCE

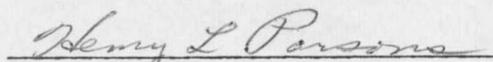
in

Agricultural Economics

Approved:


Head, Major Department


Chairman, Examining Committee


Graduate Dean

MONTANA STATE UNIVERSITY
Bozeman, Montana

August, 1971

