



MINNESOTA HISTORICAL SOCIETY  
Minnesota State Archives

## HIGHWAY DEPARTMENT Data Processing Office

### An Inventory of the Files of Ingram Morehouse

#### OVERVIEW OF THE RECORDS

- Agency:** Minnesota. Dept. of Highways. Office of Data Processing.
- Series Title:** Files of Ingram Morehouse,
- Dates:** 1956-1974.
- Quantity:** 3.6 cu. ft. (3 boxes and 2 partial boxes).
- Location:** See Detailed Description section for box locations.

#### SCOPE AND CONTENTS OF THE FILES

Mainly the files of Ingram Morehouse, longtime employee of the Highway Department and first director of the Data Coordination Division, established in August 1958 and later known at the Data Processing Office. The division/office, organized into the computer programming, routing and reports, and research and evaluation sections, coordinated all electronic data processing activities in the department. Morehouse also represented the highway department in all matters concerning electronic data processing.

The files mainly document the development of the department's data processing system particularly the purchase, installation, and operation of several IBM computers and computer systems, feasibility studies, progress reports, surveys, planning studies, programmer training, budget, and the ICES (Integrated Civil Engineering System). Many of the reports and studies were prepared by Booz, Allen & Hamilton, a management consultant firm.

The records also include a set of office diaries (1957-1971), containing handwritten notes by various staff members documenting their daily activities; files covering Morehouse's professional affiliations and activities (1965-1971), particularly the American Association of State Highway Officials and the Highway Engineering Exchange Program; and a 1958 photograph of the highway department's central office staff.

## INDEX TERMS

*This collection is indexed under the following headings in the catalog of the Minnesota Historical Society. Researchers desiring materials about related topics, persons or places should search the catalog using these headings.*

### Topics:

Administrative agencies--Minnesota--Data processing.  
Computer programming--Training of--Minnesota.  
Computer systems--Minnesota.  
Electronic data processing--Minnesota.  
Feasibility studies--Minnesota.  
Highway departments--Minnesota--Data processing.  
IBM computers--Programming--Minnesota.  
ICES (Electronic computer system).

### Persons:

Morehouse, Ingram.

### Organizations:

American Association of State Highway Officials.  
Booz, Allen & Hamilton.  
Highway Engineering Exchange Program.  
Minnesota. Dept. of Highways. Data Coordination Division.  
Minnesota. Dept. of Highways--Data processing.  
Minnesota. Dept. of Highways. Office of Data Processing--Officials and employees--  
Photographs.

### Types of Documents:

Photographs.

## ADMINISTRATIVE INFORMATION

### Preferred Citation:

*[Indicate the cited item and folder title here].* Minnesota. Dept. of Highways. Office of Data Processing. Files of Ingram Morehouse. Minnesota Historical Society. State Archives.  
*See the Chicago Manual of Style for additional examples.*

### Accession Information:

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### Processing Information:

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## DETAILED DESCRIPTION OF THE COLLECTION

*Note to Researchers: To request materials, please note both the location and box numbers shown below. Each file consists of one folder unless specified otherwise.*

<b>Location</b>	<b>Box</b>	
107.I.16.1B	1	Correspondence and memoranda, January 1962 – December 1974. 2 folders. Organizational files: AAMVA (American Association of Motor Vehicles Administrators), 1968-1969.  AASHO (American Association of State Highway Officials) Committee on Computer Technology (formerly Committee on Electronics): John R. Jamieson (Minnesota Highway Department), 1966. Committee chair.  National conference correspondence and proceedings, May 1969. 1 folder and 1 volume. Correspondence and related materials, 1968-1971. Task Force on Program Index, 1965-1969. 1 folder and 1 volume. HEEP (Highway Engineering Exchange Program), 1963-1970. 3 folders. Includes newsletters. WIM (Wisconsin, Iowa, Minnesota Highway Computer Users Group), 1965-1969. Correspondence and report of the Divided Highway Task Force.  Office diaries, 1957-1971. Mainly handwritten (by a variety of staff members) notes on field trips, contracts, reports, procedures, new staff, special staff and consultants, vacations, meetings, and other aspects of the office's activities. Some have items taped or stapled onto the pages. The first volume, labeled 1958, also contains 1957 entries and there are two volumes for 1969. The latter have some overlapping entries.  1957-1969. 13 volumes.
107.I.16.2F	2	1970-1971. 2 volumes.

**Location**      **Box**

107.I.16.2F

2

Reports:

- How to Conduct Assignment, Booz, Allen & Hamilton, Management Consultants, October 1956.
- Assignment Checklist for Consultants, October 1957.
- Electronic Data Processing Feasibility Study, Minnesota Department of Administration, February 1958.
- Booz, Allen & Hamilton. Progress Reports for State of Minnesota Highway Department, January 1959.
- Booz, Allen & Hamilton. Progress Reports for State of Minnesota Highway Department: Technical Installation of Electronic Data Processing, February 1959.
- Data Processing Services Progress and Status Reports, October 16, 1959.
- Booz, Allen & Hamilton. Report on Tabulating and Computer Operations, Minnesota Highway Department, July 29, 1960.
- Critical Path Method, Ingram Morehouse, October 8, 1962.
- The Critical Path, Leroy Swanson, Road Design Section, Minnesota Highway Department, March 1, 1963.
- Minnesota Highway Department. Programmer's Training and Reference Manual, September 25, 1964.  
Prepared by the staff of the Data Processing Services.
- Establish a Management Control Division Under an Assistant Commissioner and Assign It Responsibility for Developing and Using a System of Managerial Controls, 1966.
- Booz, Allen & Hamilton. Organization and Management Survey, Minnesota Highway Department, January 1966.
- Meeting the Electronic Data Processing Needs of the Minnesota Highway Department: An Evaluation Planning Study of Present and Expanded Computer Systems, October 1966.
- The Minnesota Highway Department and the Computer: An Abstract of the Technical Report: Meeting the Electronic Data Processing Needs of the Minnesota Highway Department, January 10, 1967.
- Booz, Allen & Hamilton. Minnesota Highway Department. Program Budgeting and Top Management Reporting System, Phase II, Reporting System Concept. Progress Report, September 6, 1967.
- Minnesota Highway Department. Maintenance Management System Development Proposal, January 1970. 3 folders.  
Produced by the Research and Standards Division, Office of Maintenance Standards.
- Legislative and Highway Department Report: Feasibility and Subsequent Review for Budget Assigned and Through February 6, 1970, 1968-1970.

<b>Location</b>	<b>Box</b>	
107.I.16.3B	3	Subject files: Booz, Allen & Hamilton, 1958-1966. 2 volumes. Management consultants. Includes correspondence, invoices, reports, statistics, and related materials. Data Processing, Engineers' Users' Manuals and You, February 1964. Speech read at the 1964 Highway Conference. Equipment Customers Data—Sales Talk—Literature, 1967-1969. Equipment—Past—Present—Use, 1965-1968. Financial Data for System/370 Model 155s, 1971. An IBM system purchased by the highway department for delivery in October-November 1971. 1410 Highway Computer Users Group, 1965. 1410 System, Highway Dept., 1961-1965. Highway Engineers Conference—St. Paul, 1964. Highway Equipment Study—Computer Requirements, 1959-1961. IBM correspondence and purchase orders, 1967-1969. 2 folders. IBM equipment, 1967-1969. IBM manual for System/360, [ca. 1966]. 3 folders. IBM problems, 1967-1969. ICES (Integrated Civil Engineering System)/TIES (Total Integrated Engineering System), 1964-1971. 2 folders. Information on consolidation, 1970. Miscellaneous meetings, 1963-1969. 1966 Bid Dope-Computer, 1959-1970.

<b>Location</b>	<b>Box</b>	
107.G.19.6F	4	Pre 360-Order-Data on next computer, 1962-1967. Program development cost, 1961. Purchase order-current-hold, 1969-1970. Purchase orders, 1970. Reconstruction of project control, 1968-1970. Background data on Project Control System. Report (typescript) on Data Processing, Highway Department, 1960-1965. Rochester trip, IBM plant, 1964. Speeches by Ingram Morehouse: Miscellaneous speeches on the use of electronic technology in the Highway Department, [ca. 1961]-1965. Speeches given at the American Association of State Highway Officials annual conferences, 1964, 1965, 1968, 1969, 1972-1973. 6 folders. Staff meeting and training sessions, 1963-1965.

<b>Location</b>	<b>Box</b>	
107.G.19.6F	4	Subject files (cont.): Use of Computers in Minnesota's Highway Needs Studies, February 19, 1964. Speech by William Lussky and Ralph Kipp to the American Society of Civil Engineers.
<b>Location</b>	<b>Box</b>	
126.G.6.5B-1	5	Group photograph (black and white) of the Highway Department central office staff, June 5, 1958. 1 item in oversize folder.