Minnesota Reflections
New Metadata Entry Guidelines

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Today’s presentation:

• Reasons for the new Guidelines
• What has changed?
• Additional training opportunities
Why new guidelines?

The previous metadata guidelines were inadequate for our contributors.
  • Confusing
  • Incomplete
  • Lacked sufficient organization
  • Lacked specific examples

What has changed?

  ▪ The Metadata Entry Guidelines were reconceived and reorganized for our Contributors
  ▪ New Pedagogical Approach - we use a format that asks and answers questions to reinforce the idea that metadata creation is a process of asking and answering a series of questions
How do these changes impact you?

New document name:
Fields renamed:

- Fields reordered
- 20+ Fields renamed:
  - Publisher → Scanning Center
  - digiSPECSformat → Master File Format
  - Specific Subject → Formal Subject Headings
  - General Subject → Minnesota Reflections Topic

Document reorganized:

- New Table of Contents
- Four New Appendices
  1. Assigning a *Minnesota Reflections* Topic Term to an Item
  2. Relationship between Item Type and Item Physical Format
  3. Item Physical Format - Glossary of Terms
  4. *Minnesota Reflections* Data Entry Quick Guide
Use of controlled vocabularies

What is a controlled vocabulary?

Controlled vocabularies provide ways to better organize information for user retrieval. A controlled vocabulary uses PRE-SELECTED AUTHORIZED terms. This is in contrast to a natural language vocabulary, which contains no restrictions on the terms used.

Use of controlled vocabularies

<table>
<thead>
<tr>
<th>Natural language vocabulary terms:</th>
<th>Controlled vocabulary term:</th>
</tr>
</thead>
<tbody>
<tr>
<td>photos</td>
<td>Black-and-white photographs</td>
</tr>
<tr>
<td>photographs</td>
<td></td>
</tr>
<tr>
<td>B/W photos</td>
<td></td>
</tr>
<tr>
<td>black &amp; white photographs</td>
<td></td>
</tr>
<tr>
<td>B &amp; W photography</td>
<td></td>
</tr>
<tr>
<td>B/W images</td>
<td></td>
</tr>
<tr>
<td>images</td>
<td></td>
</tr>
<tr>
<td>black and white snapshots</td>
<td></td>
</tr>
</tbody>
</table>
Use of controlled vocabularies

Item Type
- Cartographic
- Mixed Material
- Moving Image
- Notated Music
- Sound Recording - Musical
- Sound Recording - Nonmusical
- Still Image
- Text
- Three-Dimensional Object

Item Physical Format
- Aerial photographs
- Albumen prints
- Architectural drawings (visual works)
- Black-and-white photographs
- Cabinet photographs
- Cartes-de-visite (card photographs)
- Color photographs
- Collodion prints
- Contact prints
- Cyanotypes
- Daguerreotypes (photographs)
- Drawings (visual works)
- Gelatin silver prints
- Negatives (photographic)
- Paintings (visual works)
- Panoramas
- Photograph albums
- Photographs
- Postcards
- Posters
- Prints (visual works)
- Scrapbooks
- Sketchbooks
- Stereographs
- Studio portraits
- Tintypes

Use of pull-down menus

To facilitate the use of controlled vocabularies, we have inserted the lists of terms into pull down menus.
New Geographic Metadata terms:

Moved away from a “map-centric” view of Geographic Metadata and towards future applications of Geo-Tagging and Geo-Mapping across all collection types.

Old Version:
- Geographic Range
- Geographic Township
- Litoral
- Principal Meridian

New Version:
- Latitude
- Longitude
- Geographic Metadata Source

Using examples in Guidelines.
Four different examples of Item Titles from the MDL Guidelines

1. People: Identify people by first and last name. Differentiate between professional studio portraits and informal photography. Informal snapshot photography can often be further identified by places and activities. Include the city or township or county name to help create specificity in the title. Do NOT include all three. The city, township or county name should then be followed by the state name.

   **Ordering of Titles: FIRST and LAST NAME, CITY or TOWNSHIP or COUNTY, STATE**
   
   Example: Ruud, Ayame. Mpls., MN, [First and Last Name, City, State]  
   Example: Group of men and women at Minnesota State Park, Blue Earth County, Minnesota [City or Township or County, State]

2. Houses and buildings: Include the building’s identifying information such as the name of the building’s owner and/or the street address if known. If the title appears to be getting too long, some of the information can be placed in the description. Include the city or township or county name to help create specificity in the title. Do NOT include all three. The city, township or county name should then be followed by the state name.

   **Ordering of Titles: BUILDING NAME and/or ADDRESS, CITY or TOWNSHIP or COUNTY, STATE**
   
   Example: Public Library, Rochester, Minnesota [Building Name and/or Address, City, State]

3. City and Town Views: Include street names, business names, and the directional view if known followed by the name of the city and the state name.

   **Ordering of Titles: VIEW or STREET NAME, CITY or TOWNSHIP, STATE**
   
   Example: Main Street, Anoka, Minnesota [Street Name, City, State]

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**Examples in Appendix C**

**APPENDIX C**

**Item Physical Format – Glossary of Terms**

- Select the Item Type first – then select an associated term from the Item Type Physical Format to follow. See Appendix A for an illustration of the relationship between Item Type and Item Physical Format.
- Use the following terms to populate the Item Physical Format. All of these terms are taken from the Getty Museum’s Art & Architecture Thesaurus Online [http://www.getty.edu/research/conducting_research/vocabularies/aat/].
- Contact the MDL Metadata Coordinator if you would like to use a term that is not currently listed. It can easily be added!
- To view the examples in Minnesota Reflections, click on the link provided OR copy the identifier and paste it into the search box at the Minnesota Reflections site [http://reflections.mndigital.org/].

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
<th>AAT ID Number</th>
<th>Example in Minnesota Reflections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts</td>
<td>Documents in which monies or goods received and paid or given suffrage recorded in order to permit periodic totaling</td>
<td>390145682</td>
<td><a href="http://reflections.mndigital.org/0t/kh8.ski/LocalIdentifier:ext002,2">http://reflections.mndigital.org/0t/kh8.ski/LocalIdentifier:ext002,2</a></td>
</tr>
<tr>
<td>Advertisements</td>
<td>Publications or paid announcements, especially those in print.</td>
<td>390119993</td>
<td><a href="http://reflections.mndigital.org/0t/ksads4/LocalIdentifier:mda032125">http://reflections.mndigital.org/0t/ksads4/LocalIdentifier:mda032125</a></td>
</tr>
<tr>
<td>Aerial photographs</td>
<td>Photographs of the earth taken from an altitude or photograph of celestial bodies or astronomical</td>
<td>390128222</td>
<td><a href="http://reflections.mndigital.org/0t/vnu266/LocalIdentifier:mda034440">http://reflections.mndigital.org/0t/vnu266/LocalIdentifier:mda034440</a></td>
</tr>
</tbody>
</table>
Example of an “Advertisement” in *Minnesota Reflections*.

Appendix C provides both a direct link to each example as well as the MDL Identifier. Use the MDL Identifier to find the example using the search box.
APPENDIX A
Assigning a Minnesota Reflections Topic Term to an Item

<table>
<thead>
<tr>
<th>Minnesota Reflections Topics</th>
<th>What Items go here?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Farms/farming/homesteads</td>
</tr>
<tr>
<td></td>
<td>Crops/fields</td>
</tr>
<tr>
<td></td>
<td>Threshing/combining</td>
</tr>
<tr>
<td>American Indians</td>
<td>Individuals and group portraits</td>
</tr>
<tr>
<td></td>
<td>Reservations, villages and houses</td>
</tr>
<tr>
<td></td>
<td>Clothing and dress</td>
</tr>
<tr>
<td>Animals</td>
<td>Animals should dominate the image</td>
</tr>
<tr>
<td>Art and Architecture</td>
<td>Houses/building architectural drawings</td>
</tr>
<tr>
<td></td>
<td>Fine arts – paintings, drawings, prints</td>
</tr>
<tr>
<td></td>
<td>Studio portrait photography</td>
</tr>
<tr>
<td>Business and Industry</td>
<td>Main street/central business districts</td>
</tr>
<tr>
<td></td>
<td>Individual stores and businesses</td>
</tr>
<tr>
<td>Communication</td>
<td>Newspapers/newspaper articles</td>
</tr>
<tr>
<td></td>
<td>Letters</td>
</tr>
<tr>
<td></td>
<td>Advertisements</td>
</tr>
<tr>
<td></td>
<td>Diaries/journals</td>
</tr>
<tr>
<td>Crime and Punishment</td>
<td>Police officers/sheriffs/state police</td>
</tr>
<tr>
<td></td>
<td>Jails/prisons</td>
</tr>
<tr>
<td></td>
<td>Prisons/offenders</td>
</tr>
<tr>
<td>Education</td>
<td>Teachers/students</td>
</tr>
<tr>
<td></td>
<td>Elementary schools/high schools</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item being described</th>
<th>Minnesota Reflections Topic</th>
<th>Item Type:</th>
<th>Item Physical Format:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photograph of James J. Hill</td>
<td>Famous Minnesotans</td>
<td>Still Image</td>
<td>Albumen prints</td>
</tr>
<tr>
<td>Map of St. Louis County, Minnesota</td>
<td>Communication</td>
<td>Cartographic</td>
<td>Plat Maps</td>
</tr>
<tr>
<td>Letter from Sinclair Lewis to Marcella Powers</td>
<td>Famous Minnesotans</td>
<td>Text</td>
<td>Letters (correspondence)</td>
</tr>
<tr>
<td>Cassette tape of school children singing (note: this is an illustrative example but is not in Minnesota Reflections)</td>
<td>Education</td>
<td>Sound Recording: Musical</td>
<td>Songs</td>
</tr>
<tr>
<td>Ojibwe bannock bag (note: this is an illustrative example but is not in Minnesota Reflections)</td>
<td>American Indians</td>
<td>Three-Dimensional Object</td>
<td>Costumes</td>
</tr>
</tbody>
</table>
What’s next?

Additional Training Opportunities:

Spring 2011:

1. Print Version of the Guidelines
2. Face to Face Training
3. Telephone Training
4. Short online tutorials addressing specific topics:
   “Creating Descriptive Titles”
   “Writing an Item Description”
   “Assigning Local Subjects”
   “Creators vs. Contributors: Which is which?”
Questions?

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Image Credits:

1. Men in canoes on Long Lake, near Ely, Minnesota (Iron Range Research Center) MDL Identifier: irr00184
2. Pioneer Mine, Ely, Minnesota (Northeast Minnesota Historical Center) MDL Identifier: umn10544
3. Svenska Amerikanska Posten (American Swedish Institute) MDL Identifier: mhs03125
4. Field work on the D. M. Holland Farm, Elk Township, Minnesota (Nobles County Historical Society) MDL Identifier: mhs15875
5. J. W. Meurer's Photo Car, near Morris, Minnesota (Stevens County Museum and Historical Society) MDL Identifier: ste00125
MINNESOTA DIGITAL LIBRARY

MINNESOTA REFLECTIONS
METADATA ENTRY GUIDELINES
http://reflections.mndigital.org

Version 2.0
November 2010

FOR USE IN CREATING DESCRIPTIVE, ADMINISTRATIVE, and TECHNICAL METADATA
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- Date Digital
- Item Digital Format
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- Master File Size
- Master File Bit Depth
- Master File Resolution
- Master File Compression
- Master File Width
- Master File Height
- Master File Hardware
- Master File Software
- Master File System
- Master File Checksum

APPENDIX A: Assigning a Minnesota Reflections Topic Term to an Item
APPENDIX B: Relationship between Item Type and Item Physical Format
APPENDIX C: Item Physical Format – Glossary of Terms
APPENDIX D: Minnesota Reflections Data Entry Quick Guide
I. GETTING STARTED

TYPE A CONTRIBUTORS - These organizations contribute the descriptive cataloging information, but the Minnesota Digital Library (MDL) provides digitization services for these contributors. These organizations should focus their attention on the instructions for Parts I, II and some of Part III.

TYPE B CONTRIBUTORS - These organizations are involved in both halves of the MDL process: descriptive cataloging and digitization. They provide both scanned images, along with the requisite technical metadata, and descriptive cataloging information for their collection items. These organizations should follow the data entry instructions for Parts I, II, III and IV.

THE USE OF THE TERM “ITEM”
The term item is used throughout the guidebook. An “item” can be a number of different things – including a photograph, a photo album (filled with many photographs), a journal, a diary, an account book, a published book, a scrapbook, a recorded oral history, a postcard, a map, an atlas, etc. We have adopted “item” as a generic descriptive term when referring to the individual items that are to be included in Minnesota Reflections.

METADATA SPREADSHEETS
The MDL Outreach Coordinator will work directly with you as you plan and apply for a Minnesota Reflections digitization project. After your project has been approved, the MDL Metadata Coordinator will provide you with the necessary data entry training to help you successfully complete the appropriate metadata spreadsheet(s). Depending on the type of items in your project, you will receive one or more of the following spreadsheets:

1. **Image-Map Metadata Spreadsheet** – used for photographs, postcards, maps and other single-page items.
2. **Document Metadata Spreadsheet** – used for documents, text and other multi-page items. Atlases and plat books should be considered documents for purposes of metadata creation.

If you are submitting both single and multi-page items, you will need to fill out a separate spreadsheet for each item type. For example, if you are submitting photographs and documents, you will need to complete both an Image-Map Metadata Spreadsheet and a Document Metadata Spreadsheet.

GENERAL RULES FOR ENTERING DATA INTO THE METADATA SPREADSHEETS

- **Leave blank** any fields for which there is no available data. **DO NOT** use a question mark or the terms “Unknown” or “NA.”
- **DO NOT** use ampersands (“&”) to connect sentence elements. An ampersand should only be used when it is part of an official corporate name or logo.
  - **Example of Corporate name:** Atchison, Topeka & Santa Fe Railroad
- When adding multiple entries to a single field (such as multiple authors or multiple locally assigned subject headings), separate each element with a semi-colon and one space.
  - **Example of multiple authors:** Ward, Barbara; Ward, Gerald
  - **Example of multiple locally assigned subject headings:** Century farms; Dairy cattle
- **Avoid** the use of abbreviations throughout *Minnesota Reflections*. Writing words out enables users to find items consistently and also helps to avoid confusion (such as abbreviating both
Minnesota Reflections Metadata Guidelines 2.0

County and Company to “Co.”). An exception to this rule is the use of “St.” in a city or place name (e.g. St. Peter, St. Paul or St. Benedict).

HOW TO USE THIS MANUAL: Use this guidebook to determine definitions, how and where to enter data and to better understand what types of terms should be used to populate the spreadsheet. Each of the metadata fields is arranged in the following order:

**Definition:** The definition of the field.

**Required:** Denotes if a value for the field is required. If “Required” is marked “yes,” then a value (if one is known) must be included in the spreadsheet.

**Local Input:** Denotes who completes the field. If Local Input is marked “yes” then the contributing organization is responsible for entering that information. If it is marked “no,” then the MDL Metadata Coordinator completes the field.

**Enter Data into Spreadsheet Column:** Instructs contributing organizations into which column to enter the data in the spreadsheet.

**Guidelines:** These guidelines are intended to help contributors complete the data entry. Scope and content notes and the “rules” for completing the field are provided here.

**Minnesota Reflections Input Options:** Some fields, such as Title and Creator, require contributors to type in the values. Other fields, such as Minnesota Reflections Topic and Item Physical Format, are populated using Pull-Down Menus or selected from a pre-defined list of options. When a Pull-Down Menu or a pre-defined list is used to populate a field, the guidebook will include the list of options from which a value is to be selected or a link to an external website where those options are located.

**Examples from Minnesota Reflections:** Whenever possible, examples from Minnesota Reflections are included for illustrative purposes.

**QUESTIONS?** Contact the MDL Metadata Coordinator with questions about metadata creation. Please contact the MDL Outreach Coordinator with questions regarding all other aspects of your project.

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II. DESCRIPTIVE METADATA

What is Descriptive Metadata? Put simply, descriptive metadata is the information that uniquely describes and identifies an item – whether the item is a document, image or map. This descriptive information enables users to find an item in Minnesota Reflections (http://reflections.mndigital.org), the Minnesota Digital Library’s online discovery tool.

Unless otherwise indicated, Descriptive Metadata is provided by the contributing institution. Review the list of metadata fields prior to beginning your data entry project. You should look for two things: fields that are designated as “Required” and fields that require “Local Input.” Required fields must contain a value (if one is known). Contributing organizations should make every effort to complete all of the required fields. Local input fields are those fields which must be completed by the contributing organization.

Title

Definition: A descriptive name or phrase by which the item may be identified.

Required: Yes
Local Input: Yes

Enter Data into Spreadsheet Column: Title
Guidelines for Data Entry: There are two types of titles: Formal and Descriptive.

- **Formal Titles** are those that have been previously created or assigned. Examples of formal titles include those found on books, journals and other publications. Another example of a formal title is the printed title on a postcard. If the item has been published, transcribe the item title exactly as it appears in its published form.

**Capitalization in Formal Titles:** Formal Titles should transcribe the title as it appears in the original including all capitalization and punctuation.

**Examples of Formal Titles in Minnesota Reflections:**
Dodge County Extension Service Annual Report – 1964
Standard Atlas, Blue Earth County
Views on Upper Mississippi River

- **Descriptive Titles** are created when an item does not have a formal title. For items without formal titles, such as most historic photographs, create a brief descriptive title that will assist users in locating the item and determining its content. Limit your description to a phrase that will enable users to locate the item. A more detailed description of the object should be recorded in the Description field. Note: Descriptive titles are far more common in Minnesota Reflections than formal titles.
**Capitalization in Descriptive Titles:** When creating a Descriptive Title, always capitalize the first word in the title. Proper names of individuals, companies, and place names should also be capitalized.

**Creating Descriptive Titles:** Three of the most common subjects for historic photographs are People, Houses/Individual Buildings, and City/Town views. How do you create descriptive titles for these types of images? A benchmark of a good descriptive title is “Specificity.” Specificity means creating titles that uniquely and specifically describe what is in the image.

1. **People** - Identify people by first and last name. Differentiate between professional studio portraits and informal photography. Informal snapshot photography can often be further identified by places and activities. Include the city OR township OR county name to help create specificity in the title. Do NOT include all three. The city, township or county name should then be followed by the state name.

   **Ordering of Title:** FIRST and LAST NAME, CITY or TOWNSHIP or COUNTY, STATE
   
   Example: Portrait of James J. Hill, St. Paul, Minnesota
   Example: Group of men and women at Minneopa State Park, Blue Earth County, Minnesota

2. **Houses and Buildings** - Include the building’s identifying information such as the name of the building’s owner and/or the street address if known. If the title appears to be getting too long, some of the information can be placed in the description. Include the city OR township OR county name to help create specificity in the title. Do NOT include all three. The city, township or county name should then be followed by the state name.

   **Ordering of Title:** BUILDING NAME and/or ADDRESS, CITY or TOWNSHIP or COUNTY, STATE
   
   Example: Public Library, Rochester, Minnesota

3. **City and Town Views** - Include street names, business names, and the directional view if known followed by the name of the city and the state name.

   **Ordering of Title:** VIEW or STREET NAME, CITY or TOWNSHIP, STATE
   
   Example: Main Street, Anoka, Minnesota
Examples of Descriptive Titles in *Minnesota Reflections*:

<table>
<thead>
<tr>
<th>NOT Descriptive Titles</th>
<th>Good Descriptive Titles</th>
<th>Better Descriptive Titles</th>
</tr>
</thead>
<tbody>
<tr>
<td>These titles lack specificity and do NOT assist users in their search for materials.</td>
<td>These are examples of basic descriptive titles.</td>
<td>These titles provide users with more specific information and relay exactly what is in the image.</td>
</tr>
<tr>
<td>Man</td>
<td>Forest L. Pinney</td>
<td>Portrait of Forest L. Pinney</td>
</tr>
<tr>
<td>Woman</td>
<td></td>
<td>Board of Education, Thief River Falls, Minnesota</td>
</tr>
<tr>
<td>People</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>House</td>
<td>Axel’s Lunch Room</td>
<td>First frame house built north of Melrose, Minnesota</td>
</tr>
<tr>
<td>Downtown business</td>
<td></td>
<td>Axel’s Lunch Room, Minneapolis, Minnesota</td>
</tr>
<tr>
<td>Hotel</td>
<td></td>
<td>Pioneer Hotel, Ely, Minnesota</td>
</tr>
<tr>
<td>Church</td>
<td>Church, Pemberton, Minnesota</td>
<td>Medo Lutheran Church, Pemberton, Minnesota</td>
</tr>
<tr>
<td>Hospital</td>
<td></td>
<td>Bethany Hospital, Thief River Falls, Minnesota</td>
</tr>
<tr>
<td>City and Town Views</td>
<td></td>
<td>Ely Block Building, Winona, Minnesota</td>
</tr>
<tr>
<td>Street</td>
<td>Steamer &quot;Marguerite&quot; on the Mississippi River</td>
<td>Steamboat “War Eagle” unloading cargo, Fountain City, Minnesota</td>
</tr>
<tr>
<td>Park</td>
<td></td>
<td>Bird's eye view, Greenbush, Minnesota</td>
</tr>
<tr>
<td>Street corner</td>
<td>Main Street, Anoka, Minnesota</td>
<td>Main Street looking east, Anoka, Minnesota</td>
</tr>
<tr>
<td>Main Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>View</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Creator

Definition: The name of the creator of the item (e.g. photographer, author, artist), either an individual or an organization.

Required: Yes (if available)
Local Input: Yes

Enter Data into Spreadsheet Column: Creator
Guidelines for Data Entry: Enter the name of the individual or organization responsible for creating the item.

Record the name of the creator using the following format:

Last name, First name, Middle Name or Initials (if known), Life dates (if known)

If an organization or corporate body created the object, record the name of the organization or corporate body. If more than one creator is identified, record each creator name separated by a semicolon and one space.

The name of individual photographers should be entered in the Creator field; photography studios should be entered into the Contributor field. If the photography studio information is provided but no photographer is listed, leave the Creator field blank and enter the studio information in the Contributor field.

Examples in Minnesota Reflections:
Whitney, Joel Emmons, 1822-1886
Minnesota (Ter.) Constitutional convention (1857)
Ward, Barbara; Ward, Gerald (note: this is an illustrative example but is not in Minnesota Reflections)

Contributor

Definition: The name of an individual or an organization that played a secondary role in the creation of the item (e.g. printer, editor, photography studio).

Required: No
Local Input: Yes

Enter Data into Spreadsheet Column: Contributor
Guidelines for Data Entry: Use this field to record the names of people and organizations that contributed to the creation of the item, but are not deemed as fully responsible as a creator. For example, a photography studio may be listed as a contributor when an individual photographer has been identified as the creator. Record the name of the contributor using the following format:
Last name, First name, Middle Name or Initials (if known), Life dates (if known)

If an organization or corporate body contributed to the creation of the item, record the name of the organization or corporation. If more than one contributor is identified as being responsible for the item, record all names separated by a semicolon and one space.

**NOTE: DO NOT** use this field to enter information on who donated the original object to your organization or information regarding the item's provenance. Information about the organization that owns or holds the rights to the original item should be entered in the *Contributing Organization* field.

Examples in *Minnesota Reflections*:
Whitney's Gallery
American and Foreign Stereographic Emporium

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**Description**

**Definition:** A narrative, textual description of the item.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Description  
**Guidelines for Data Entry:** Use this field to record information about the people, places, events, or themes depicted in the item. The description is typically a more detailed extension of the information recorded in the *Title* field. While there is no rule as to how much information should be included in a description, contributors should try to find a balance between providing too much and not enough information.

The description should be written in complete sentences and the field should read as a single block of text. The block of text should end with a period. Do not use abbreviations, ampersands or paragraph and line breaks. Maintain standard capitalization rules. Do not use all capital letters to set words or phrases apart or to denote importance. Use double quotation marks to denote the name of a train, ship, steamboat, farm, etc. Do not include any electronic coding, such as a web address (URL), that could create structural changes to the text.

Examples in *Minnesota Reflections*:

**Good Description:** Members of Park Avenue Methodist Church shown on an outing to Red Rock Park

**Too Little Information:** Main Street.

**Too Much Information:** Sunny day in the northern Minnesota woods. Vertical photograph showing a dirt path through the woods. The path is lined with dirt and chipped wood and curves to the right,
disappearing behind a number of trees and shrubs. The sun is shining through the trees and the shadows are cast into the path. The trees along the left side of the path are examples of Red Pine (also called Norway Pine) as well as a number of White Pine (Minnesota’s State tree). There is a proliferation of low shrub-type plants as well. On the right of the path is a low-lying plant with light green leaves. This is perhaps a young birch tree or perhaps a dogwood plant. There are a number of stumps near the birch tree that were originally large trees that may have been cut down during a logging operation at an earlier time. The reverse of the photo is written in black ball point ink, “A Great day for a hike! Father’s Day 1954.” It is not known who took the photo or who wrote the inscription on the back of the photo. *(Note: this is an illustrative example but is not in Minnesota Reflections)*

### Date of Creation

**Definition:** The date the item was created.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Date of Creation

**Guidelines for Data Entry:** Record the date on which the item was created. Date values must be recorded according to these specific guidelines:

- **Year only:** use when only the year is known. Record in the form of yyyy
- **Year and Month:** use when the year and month are known. Record in the form yyyy-mm
- **Year, Month, Day:** use when the exact date is known. Record in the form yyyy-mm-dd
- **Uncertain Date:** use when date is uncertain. Place a question mark after the date value. Do NOT use the term “circa.”
- **Date Range:** use when date is uncertain but falls within a likely range. Record the earliest and latest dates separated by one space-a hyphen-one space in the form of yyyy - yyyy.

**Examples in Minnesota Reflections:**

- **Year only:** 1872  
- **Year and Month:** 1890-03 (use for March 1890)  
- **Year, Month, Day:** 1905-05-22 (use for May 22, 1905)  
- **Uncertain Date:** 1875? (means possibly 1875; use ? instead of “circa”)  
- **Date Range:** 1850 - 1895 (use for the date range between 1850 and 1895) Note: a space is required before and after the hyphen.
Publishing Agency

**Definition:** Information regarding the publisher of the item should be denoted here.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Publishing Agency

**Guidelines for Data Entry:** Enter the publisher’s name. If the city is provided, record it separated from the name by one space and enclosed in parentheses. If the state to which the publishing city belongs is given, record it after the city name. Spell out the state name after the city name within the parentheses. Separate the city and state names by a comma and one space. If the state is unknown, do not include it. If multiple city names are identified, list only the most prominent; if all are given equivalent prominence, enter only the first.

**Examples in Minnesota Reflections:**
Minnesota Historical Society Press (St. Paul, Minnesota)
Random House (New York, New York)
*(Note: these are both illustrative examples but are not in Minnesota Reflections)*

Dimensions

**Definition:** Information regarding the physical dimensions or extent of the item should be recorded here.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Dimensions

**Guidelines for Data Entry:** Enter the size of the item (height x width), in **centimeters**. One inch is equal to 2.54 centimeters.

For audio and video materials, enter the length or duration of the item. Times are entered in hours, minutes and seconds separated by colons and no spaces.

**Examples in Minnesota Reflections:**
15 x 10 (15 cm in vertical dimension x 10 cm in horizontal dimension)
2:36:12 (denoting an audio file 2 hours, 36 minutes and 12 seconds in length)
NOTE: Use the following three fields to describe an item from the most general term, *Minnesota Reflections Topic*, to the most specific term, *Item Physical Format*.

**Minnesota Reflections Topic**

*Formerly: General Subject*

**Definition:** One of 18 topical terms that best characterizes or describes the general subject or topic of the item being described.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** *Minnesota Reflections Topic*  
**Guidelines for Data Entry:** Use the pull-down list in the metadata spreadsheet to select the term that best characterizes or describes the subject of the item. Only one value may be assigned. Please refer to *Appendix A* for guidelines and examples.

NOTE: There is a subjective element to assigning the topic values. Sometimes an item can span more than one of these topical terms. Think about how users will look for and find this item; select the term that you think BEST describes the item.

**Minnesota Reflections Input Options:**

- Agriculture  
- American Indians  
- Animals  
- Art and Architecture  
- Business and Industry  
- Communication  
- Crime and Punishment  
- Education  
- Environment  
- Famous Minnesotans  
- Health and Medicine  
- Labor  
- Politics and Government  
- Religion  
- Social Issues  
- Sports and Recreation  
- Transportation  
- Weather  

**Examples in Minnesota Reflections:**  
Famous Minnesotans
Item Type

*Formerly: Type*

**Definition:** One of nine broad terms which characterize the type of item being described. Please refer to *Appendix B* and *Appendix C* for a detailed list of Item Type terms and their corresponding Item Physical Format terms.

**Required:** Yes

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Item Type

**Guidelines for Data Entry:** Use the pull-down list in the metadata spreadsheet to select the term that best characterizes or describes the type of item being described. Only one value may be assigned.

**Minnesota Reflections Input options:**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cartographic</strong></td>
<td>Use for all cartographic materials, including maps, charts, atlases and plat books.</td>
</tr>
<tr>
<td><strong>Mixed Material</strong></td>
<td>Use to indicate that the item is comprised significantly of two or more types of materials.</td>
</tr>
<tr>
<td></td>
<td>Use Mixed Material to describe a single item that is comprised of multiple, different item types such as text, photographs, and sound recordings. A good example is a scrapbook, which may contain still images (such as postcards and photographs), textual materials (such as letters and newspaper clippings) and three dimensional objects (such as pins, ribbons, souvenir coins or tokens).</td>
</tr>
<tr>
<td><strong>Moving Image</strong></td>
<td>Use for motion pictures, video recordings, television programs, digital video. This does NOT include slides and transparencies (use <em>Still Image</em>).</td>
</tr>
<tr>
<td><strong>Notated Music</strong></td>
<td>Use for graphic representations of musical works. This includes musical scores, diagrammatic representations, square note notation, chant notation, etc. For digitized audio recordings, use <em>Sound Recording-Musical</em> or <em>Sound Recording-Nonmusical</em>.</td>
</tr>
<tr>
<td><strong>Sound Recording – Musical</strong></td>
<td>Use when a resource is predominately a musical sound recording. For sheet music, scores and songbooks use <em>Notated Music</em>.</td>
</tr>
<tr>
<td><strong>Sound Recording – Nonmusical</strong></td>
<td>Use when the sound recording is predominately nonmusical in nature.</td>
</tr>
</tbody>
</table>
### Still Image
Use when a resource is a "Two-Dimensional Graphic." This includes drawings, prints, paintings, postcards, and posters; as well as all photographic materials – such photographic prints, negatives, 35 mm slides and transparencies.

### Text
Use for text-based materials such as correspondence, annual reports, books, pamphlets, diaries, etc. Text materials can be handwritten, typed or computer-generated.

### Three-Dimensional Object
Use for all three-dimensional objects. This includes a wide range of materials such as tools, equipment, costume, furnishings, etc. Three-dimensional objects are included in *Minnesota Reflections* via documentary photograph intermediaries; a method whereby a professional photographer in a museum or other cultural organization setting photographs three-dimensional objects, the intent of which is to photographically represent the three-dimensional object in two-dimensional form.

**Example in *Minnesota Reflections*:**
- Text
- Cartographic
- Still Image

---

## Item Physical Format

**Formerly: Physical Format**

**Definition:** Selected from controlled lists, these terms further specify and define the broader term previously selected in *Item Type*.

**Required:** Yes

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Item Physical Format

**Guidelines for Data Entry:** After selecting the appropriate *Item Type* term, a pull-down menu listing all of the conforming *Item Physical Format* terms will be available in the metadata spreadsheet. These options will define the item with greater specificity. Select the term that best describes the physical nature of the item. Only one value may be assigned.

**Minnesota Reflections Input options:** Please see Appendix B for a comprehensive list of *Item Type* terms and their related *Item Physical Format* terms. Please see Appendix C for definitions of the *Item Physical Format* terms in the pull-down menu.
Examples in *Minnesota Reflections*:
Diaries (associated with the Item Type: Text)
Manuscripts (associated with the Item Type: Text)
Black-and-white photographs (associated with the Item Type: Still image)
Plat Maps (associated with the Item Type: Cartographic)

---

**Examples of Assigned Values**

Recap: How should data in these three fields look? Review the following table for some examples of how to describe an item starting with the most general term and ending with the most specific term.

<table>
<thead>
<tr>
<th>Item being described:</th>
<th><em>Minnesota Reflections</em> Topic:</th>
<th>Item Type:</th>
<th>Item Physical Format:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photograph of James J. Hill</td>
<td>Famous Minnesotans</td>
<td>Still Image</td>
<td>Albumen prints</td>
</tr>
<tr>
<td>Map of St. Louis County, Minnesota</td>
<td>Communication</td>
<td>Cartographic</td>
<td>Plat Maps</td>
</tr>
<tr>
<td>Letter from Sinclair Lewis to Marcella Powers</td>
<td>Famous Minnesotans</td>
<td>Text</td>
<td>Letters (correspondence)</td>
</tr>
<tr>
<td>Cassette tape of school children singing <em>(note: this is an illustrative example but is not in Minnesota Reflections)</em></td>
<td>Education</td>
<td>Sound Recording-Musical</td>
<td>Songs</td>
</tr>
<tr>
<td>Ojibwe bandolier bag <em>(note: this is an illustrative example but is not in Minnesota Reflections)</em></td>
<td>American Indians</td>
<td>Three-Dimensional Object</td>
<td>Costumes</td>
</tr>
</tbody>
</table>
Formal Subject Headings

Formerly: Specific Subject
Definition: A formal subject term or terms describing the people, organizations, events or themes depicted in the item.

NOTE: These terms are assigned by the MDL Metadata Coordinator using Library of Congress Subject Headings.

Required: Yes
Local Input: No

Guidelines for Data Entry: Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign all Formal Subject Headings after the project has been added to Minnesota Reflections.

Examples in Minnesota Reflections:
Libraries; Children; Children's clothing
Dams; Building sites
River boats

Locally Assigned Subject Headings

Formerly: Local Subject
Definition: A term or terms describing the people, organizations, events or themes depicted in the item. These terms are assigned by the contributing organization.

Required: Yes
Local Input: Yes

Enter Data into Spreadsheet Column: Locally Assigned Subject Headings
Guidelines for Data Entry: Record here information about the people, organizations, events, or themes that are depicted in the item. Enter as many terms as are appropriate. Separate each term from the preceding one by inserting a semicolon and one space. Personal names should be recorded using the following format: last name, first name, middle initial, life dates. Do not use ampersands to connect subject elements. At least one local subject must be included.

Examples in Minnesota Reflections:
Snyder's grocery store
Veterans; Grand Army of the Republic
Christmas; Family life
Minnesota City or Township

**Definition:** Enter the name of the incorporated city or village or the name of a civil township described in the item.

**Required:** Yes (if available)

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Minnesota City or Township

**Guidelines for Data Entry:** Select the name of the city, village, or township that describes the location named or shown in the item. When multiple cities or townships are entered, clearly separate each entry by a semicolon and one space. All entries must conform to *Minnesota Reflections* approved values. Complete this field, even if this information was entered in the *Title or Description* fields.

If a city or township name does not appear in Minnesota Place Names, do NOT include it here. Put the information in the *Description* field.

Leave this field blank, if an item has a Minnesota state-wide focus. Items considered to have state-wide focus include Minnesota state statutes, booklets, state tourism advertisements, and cartographic materials such as maps and atlases with state-wide coverage.

**Minnesota Reflections Input Options:** All values must come from the *Minnesota Place Names* online thesaurus available at: [http://mnplaces.mnhs.org/upham/index.cfm](http://mnplaces.mnhs.org/upham/index.cfm).

**Examples in Minnesota Reflections:**
Pine River Township
St. Cloud
Zumbrota
Minneapolis; St. Paul

District

**Definition:** The name of a place described in the item which does not correspond to a formal unit of government.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** District

**Guidelines for Data Entry:** Enter the name of a district or region named or shown in the item. When multiple districts are entered, clearly separate each entry by a semicolon and one space.

**Examples in Minnesota Reflections:**
Central business district
Third Ward
East side; Arcade

**Minnesota County**

**Definition:** The name of the Minnesota County that corresponds to the place named or shown in the item.

**Required:** Yes (if available)
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Minnesota County

**Guidelines for Data Entry:** Select the Minnesota County that characterizes the location shown or described in the item. When multiple counties are entered, clearly separate each entry by a semicolon and one space. Complete this field even if this information was previously entered in the *Title* or *Description* fields.

Leave this field blank, if an item has a Minnesota state-wide focus. Items considered to have state-wide focus include Minnesota state statutes, booklets, state tourism advertisements, and cartographic materials such as maps and atlases with state-wide coverage.

**Minnesota Reflections Input Options:**

<table>
<thead>
<tr>
<th>Aitkin</th>
<th>Dakota</th>
<th>Lac qui Parle</th>
<th>Olmsted</th>
<th>Stearns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anoka</td>
<td>Dodge</td>
<td>Lake</td>
<td>Otter Tail</td>
<td>Steele</td>
</tr>
<tr>
<td>Becker</td>
<td>Douglas</td>
<td>Lake of the Woods</td>
<td>Pennington</td>
<td>Stevens</td>
</tr>
<tr>
<td>Beltrami</td>
<td>Faribault</td>
<td>Le Sueur</td>
<td>Pine</td>
<td>Swift</td>
</tr>
<tr>
<td>Benton</td>
<td>Fillmore</td>
<td>Lincoln</td>
<td>Pipestone</td>
<td>Todd</td>
</tr>
<tr>
<td>Big Stone</td>
<td>Freeborn</td>
<td>Lyon</td>
<td>Polk</td>
<td>Traverse</td>
</tr>
<tr>
<td>Blue Earth</td>
<td>Goodhue</td>
<td>McLeod</td>
<td>Pope</td>
<td>Wabasha</td>
</tr>
<tr>
<td>Brown</td>
<td>Grant</td>
<td>Mahnomen</td>
<td>Ramsey</td>
<td>Wadena</td>
</tr>
<tr>
<td>Carlton</td>
<td>Hennepin</td>
<td>Marshall</td>
<td>Red Lake</td>
<td>Waseca</td>
</tr>
<tr>
<td>Carver</td>
<td>Houston</td>
<td>Martin</td>
<td>Redwood</td>
<td>Washington</td>
</tr>
<tr>
<td>Cass</td>
<td>Hubbard</td>
<td>Meeker</td>
<td>Renville</td>
<td>Watonwan</td>
</tr>
<tr>
<td>Chippewa</td>
<td>Itasca</td>
<td>Mille Lacs</td>
<td>Rice</td>
<td>Wilkin</td>
</tr>
<tr>
<td>Chisago</td>
<td>Jackson</td>
<td>Morrison</td>
<td>Rock</td>
<td>Winona</td>
</tr>
<tr>
<td>Clay</td>
<td>Kanabec</td>
<td>Mower</td>
<td>Roseau</td>
<td>Wright</td>
</tr>
<tr>
<td>Clearwater</td>
<td>Kandiyohi</td>
<td>Murray</td>
<td>St. Louis</td>
<td></td>
</tr>
<tr>
<td>Cook</td>
<td>Kittson</td>
<td>Nicollet</td>
<td>Scott</td>
<td></td>
</tr>
<tr>
<td>Cottonwood</td>
<td>Koochiching</td>
<td>Nobles</td>
<td>Sherburne</td>
<td></td>
</tr>
<tr>
<td>Crow Wing</td>
<td></td>
<td>Norman</td>
<td>Sibley</td>
<td></td>
</tr>
</tbody>
</table>

**Example in Minnesota Reflections:**
Becker
Hennepin; Ramsey
**State or Province**

*Formerly: State*

**Definition:** The name of the U.S. state or Canadian province of the place shown or described in the item.

**Required:** Yes (if available)

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** State or Province

**Guidelines for Data Entry:** Select the state or Canadian province that characterizes the location shown or described in the item. When multiple states or provinces are entered, clearly separate each entry by a semicolon and one space. Complete this field even if this information was previously entered in the *Title* or *Description* fields.

**Minnesota Reflections Input Options: U.S. States**

<table>
<thead>
<tr>
<th>Alabama</th>
<th>Hawaii</th>
<th>Michigan</th>
<th>New York</th>
<th>Tennessee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>Idaho</td>
<td>Massachusetts</td>
<td>North Carolina</td>
<td>Texas</td>
</tr>
<tr>
<td>Arizona</td>
<td>Illinois</td>
<td>Minnesota</td>
<td>North Dakota</td>
<td>Utah</td>
</tr>
<tr>
<td>Arkansas</td>
<td>Indiana</td>
<td>Mississippi</td>
<td>Ohio</td>
<td>Vermont</td>
</tr>
<tr>
<td>California</td>
<td>Iowa</td>
<td>Missouri</td>
<td>Oklahoma</td>
<td>Virginia</td>
</tr>
<tr>
<td>Colorado</td>
<td>Kansas</td>
<td>Montana</td>
<td>Oregon</td>
<td>Washington</td>
</tr>
<tr>
<td>Connecticut</td>
<td>Kentucky</td>
<td>Nebraska</td>
<td>Pennsylvania</td>
<td>West Virginia</td>
</tr>
<tr>
<td>Delaware</td>
<td>Louisiana</td>
<td>Nevada</td>
<td>Rhode Island</td>
<td>Wisconsin</td>
</tr>
<tr>
<td>Florida</td>
<td>Maine</td>
<td>New Hampshire</td>
<td>South Carolina</td>
<td>Wyoming</td>
</tr>
<tr>
<td>Georgia</td>
<td>Maryland</td>
<td>New Jersey</td>
<td>South Dakota</td>
<td></td>
</tr>
</tbody>
</table>

**Minnesota Reflections Input Options: Canadian Provinces**

<table>
<thead>
<tr>
<th>Alberta</th>
<th>British Columbia</th>
<th>Northwest Territories</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Nova Scotia</td>
<td>Saskatchewan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nunavut</td>
<td>Yukon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ontario</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prince Edward Island</td>
<td></td>
</tr>
</tbody>
</table>

**Examples in Minnesota Reflections:**

Minnesota
Iowa; Illinois
Country

**Definition:** The name of the country shown or described in the item.

**Required:** Yes (if available)

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Country

**Guidelines for Data Entry:** Select the country that characterizes the location shown or described in the item. When multiple countries are entered, clearly separate each entry by a semicolon and one space. Complete this field even if this information was previously entered in the Title or Description fields.

**Minnesota Reflections Input Options:** The country designation in *Minnesota Reflections* should ALMOST ALWAYS be the United States. Canada may also be assigned as a country value if an item spans, crosses or relates to the Minnesota/Canadian border. Some examples of items that would use Canada as a country value: historic postcards of the Northwest Angle, photographs of a 1954 canoe trip into Lac La Croix (one of the major border lakes in northern Minnesota), letters and memorandums that relate to the development of the BWCAW/Quetico Provincial Park, etc.

Other country values may be assigned, but please discuss your project’s scope with the MDL Outreach Coordinator prior to submitting your project proposal.

**Examples in Minnesota Reflections:**
United States
Canada

Geographic Feature

**Definition:** The name of a geographic feature described in the item.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Geographic Feature

**Guidelines for Data Entry:** Enter a term that names a river, lake, landform, or other geographic feature shown in the image into the spreadsheet column Geographic Feature. When multiple terms are used, separate them by a semicolon and one space. All entries must conform to *Minnesota Reflections* approved values.

If a Geographic Feature does not appear in Minnesota Place Names, do NOT include it here. Put the information in the Description field.
**Minnesota Reflections Input Options:** All values must come from the *Minnesota Place Names* online thesaurus available at: [http://mnplaces.mnhs.org/upham/index.cfm](http://mnplaces.mnhs.org/upham/index.cfm).

**Examples in Minnesota Reflections:**
- Harriet Island
- Burntside Lake
- Birch Coulee

---

**Latitude**

**Definition:** Lines of Latitude are the horizontal lines that run east-to-west or west-to-east either north or south of the equator. A specific latitude may be combined with a specific longitude to give a precise position on the earth’s surface.

**Required:** No
**Local Input:** No

**Enter Data into Spreadsheet Column:** Latitude

**Guidelines for Data Entry:** Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct latitude after the project has been added to *Minnesota Reflections*. Values are entered using the decimal system.

**Examples in Minnesota Reflections:**
- 47.8935175

---

**Longitude**

**Definition:** Lines of Longitude are the vertical lines that run north-to-south or south-to-north either east or west of the Prime Meridian. A specific longitude may be combined with a specific latitude to give a precise position on the earth’s surface.

**Required:** No
**Local Input:** No

**Enter Data into Spreadsheet Column:** Longitude

**Guidelines for Data Entry:** Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct longitude after the project has been added to *Minnesota Reflections*. Values are entered using the decimal system.

**Examples in Minnesota Reflections:**
- -91.9268122
Geographic Metadata Source

**Definition:** A number of different standards currently exist for creating and capturing geographic metadata. Capturing the data source helps preserve the data’s value and ensures the overall accuracy and consistency of the geographic metadata in *Minnesota Reflections*.

**Required:** No

**Local Input:** No

**Enter Data into Spreadsheet Column:** Geographic Metadata Source

**Guidelines for Data Entry:** Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct geographic metadata source after the project has been added to *Minnesota Reflections*.

**Examples in Minnesota Reflections:**
- GNIS
- Bureau of Land Management
- Minnesota Geographic Metadata Guidelines
III. ADMINISTRATIVE METADATA

What is Administrative Metadata? Administrative Metadata is the information that helps manage digital items, such as local identifiers, owners of the original, and any associated image rights.

In Minnesota Reflections, Administrative Metadata primarily provides users with information about the contributing organization: its individual collections, organization name and address, the organization’s rights management statement and information regarding the project’s funding source.

Unless otherwise indicated, the Administrative Metadata is provided by the contributing organization. Review the list of metadata fields prior to beginning your data entry. You should look for two things: fields that are designated as “Required” and fields that require “Local Input.” Required fields must contain a value (if one is known). Local Input fields are those fields which must be completed by the contributing organization.

Parent Collection

Definition: The name of a larger collection or other entity of which the item being described is a part.

Required: No
Local Input: Yes

Enter Data into Spreadsheet Column: Parent Collection
Guidelines for Data Entry: Use this field if an item belongs to a specific (often named) collection located within the contributing organization’s larger collection. A parent collection may be comprised of a set of papers, three-dimensional objects, manuscripts, photographs, archival materials, etc.

Examples in Minnesota Reflections:
The Iron Range Research Center has contributed a number of individual photographs, documents and maps to Minnesota Reflections that are part of named collections within the IRRC.

<table>
<thead>
<tr>
<th>Item</th>
<th>Parent Collection</th>
<th>Contributing Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map: Biwabik, Northeast Quadrangle</td>
<td>Ray Segar Map Collection</td>
<td>Iron Range Research Center</td>
</tr>
<tr>
<td>Photograph: Vegetable Garden, Pioneer Mine, Ely featuring Zgonc children</td>
<td>Oliver Iron Mining Photographic Collection</td>
<td>Iron Range Research Center</td>
</tr>
<tr>
<td>Photograph: W. R. Opie with Tent and Canoe</td>
<td>William R. Opie Photographic Collection</td>
<td>Iron Range Research Center</td>
</tr>
</tbody>
</table>
Contributing Organization

**Definition:** Name, address and website address (if applicable) of the organization contributing the digital item to the *Minnesota Reflections*.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Contributing Organization  
**Guidelines for Data Entry:** Record the name, address and website of the contributing organization.

**Note:** DO NOT use this field to enter donor information or provenance information from your organization.

**Examples in *Minnesota Reflections*:**
Iron Range Research Center, 801 SW Hwy. 169, Suite 1, Chisholm, MN 55719.  
http://mndiscoverycenter.com/research-center

Rights Management

**Definition:** Information about any rights that may be held in and over the item. It may be either a narrative statement or a URL that links to a more formal rights page.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Rights Management  
**Guidelines for Data Entry:** Record any rights management information as supplied by the contributing organization.

**Examples in *Minnesota Reflections*:**
This image may not be reproduced for any reason without the express written consent of the Nicollet County Historical Society.  
Use of this image may be governed by U.S. and international copyright laws. Please contact the Performing Arts Archives for permission to publish this image.  
http://special.lib.umn.edu/manuscripts/perfart.html
Local Identifier

**Definition:** A unique string that identifies the item being described. *Local Identifiers* can be numbers, letters, or a combination of both. The purpose of this field is to make it possible to associate a digital image and its associated metadata with the original item from which it was derived. All contributing organizations must supply a unique, locally defined identifier for each item submitted to *Minnesota Reflections*.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Local Identifier  
**Guidelines for Data Entry:** Record a unique identifier such as a library call number, an accession number, a collection identification number, or other local control number that uniquely identifies the item being described.

**Examples in Minnesota Reflections:**  
1986.005.0002 *(an accession number supplied by the Pipestone County Historical Society)*  
St. Peter Regional Treatment Center Collection: Volume 2 *(a collection number- the second volume in a collection supplied by the St. Peter Regional Treatment Center)*

MDL Identifier

**Definition:** A uniquely assigned file name (excluding the file extension) of the digital item. Type A participants will have this code assigned by the MDL Outreach Coordinator. All Type B participants must have a three-letter prefix assigned by the MDL; contact the MDL Outreach Coordinator to obtain this code.

**Required:** Yes  
**Local Input:** No for Type A participants; Yes for Type B participants

**Enter Data into Spreadsheet Column:** MDL Identifier  
**Guidelines for Data Entry:** Record the MDL identifier using a three-character code that corresponds either to: 1) the officially sanctioned MDL scanning center charged with providing digitization services, or 2) the contributing organization which has chosen to scan its own materials (Type B). This three-character code should be followed by a five-digit number (be sure to include leading zeros). This identifier is used as the file name for the digital image and should be assigned to only one file.

**Note:** Third-party scanning vendors must use the three-character code that corresponds to the contributing organization for which they are providing services.

**Examples in Minnesota Reflections:**  
mhs00401  
irr00125
**Project Affiliation**

**Definition:** Denotes the funding year in which the digitization project was approved.

**Required:** Yes  
**Local Input:** No

**Guidelines for Data Entry:** Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct *Project Affiliation* after the project has been added to *Minnesota Reflections*.

**Examples in Minnesota Reflections:**
Minnesota Reflections 2006-07  
Minnesota Reflections 2009-10

---

**Fiscal Sponsor**

**Definition:** Denotes the funding source for the digitization project.

**Required:** Yes  
**Local Input:** No

**Guidelines for Data Entry:** Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct *Fiscal Sponsor* after the project has been added to *Minnesota Reflections*.

**Examples in Minnesota Reflections:**
Grant provided to the Minnesota Digital Library Coalition through the Library Services and Technology Act (LSTA) and the State Library Services and School Technology unit of the Minnesota Department of Education.
IV. TECHNICAL METADATA

What is Technical Metadata? Technical metadata is also sometimes called “process-related metadata” and it captures information about the process of digitizing an item. Technical metadata does NOT describe the item being digitized (that is Descriptive Metadata). Technical metadata captures information regarding an item’s digital format, technical characteristics, storage and location. Technical metadata helps repositories manage and preserve digital items over time.

NOTE: Section IV is designed primarily for Type B contributors who scan their own images or who contract with vendors to scan their images. Type A participants, those that have chosen to have their items scanned at one of the MDL’s scanning centers, should ignore this section.

Unless otherwise indicated, the Technical Metadata is provided by the contributing organization or by its vendor. Review the list of metadata fields prior to beginning your data entry project. You should look for two things: fields which are designated as “Required” and fields that require “Local Input.” Required fields require a value (if one is known). Local Input are those fields which must be completed by the contributing organization or by its vendor.

Scanning Center

Formerly: Publisher

Definition: The organization responsible for creating the digital item.

Required: Yes
Local Input: Yes

Enter Data into Spreadsheet Column: Scanning Center

Guidelines for Data Entry: Record the name and address of the organization or vendor that created the digital item (scanned the material). This may not always be the same organization the holds the original items.

Examples in Minnesota Reflections:
Minnesota Historical Society, 345 Kellogg Blvd. West, St. Paul, MN 55102-1906
Iron Range Research Center, Chisholm, Minnesota
Object File Name

**Definition:** The file name, including extension, of the item being described. Object file names should correspond to the MDL Identifier. Be sure to include the file extension (e.g. .tif, .wav, .jp2).

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Object File Name  
**Guidelines for Data Entry:** Record the Object File Name as the same three-character, five-digit name used in the *MDL Identifier* field. Be sure to include the applicable file extension.

**Examples in Minnesota Reflections:**
- mhs00401.tif
- umn94142.wav
- irr00125.tif

Date Digital

**Definition:** Date Digital is the date that the scanning center created the master digital version of the item.

**Required:** Yes  
**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Date Digital  
**Guidelines for Data Entry:** Record the date using the International Standard for Organization ISO-8601 format: YYYY-MM-DD; YYYY is the year, MM is the month of the year between 01 (January) and 12 (December), and DD is the day of the month between 01 and 31.

**Example in Minnesota Reflections:**
- 2006-12-05

Item Digital Format

*Formerly: Format*

**Definition:** The Internet Media Type for the digital item. This field is used to describe the access file only.

**Required:** Yes  
**Local Input:** No
Enter Data into Spreadsheet Column: Item Digital Format
Guidelines for Data Entry: Assigned directly by the MDL Metadata Coordinator. This field does not appear on any of the metadata spreadsheets. The MDL Metadata Coordinator will assign the correct Item Digital Format after the project has been added to Minnesota Reflections.

For more information and a complete list of valid Internet Media Types please refer to http://www.iana.org/assignments/media-types/.

Examples in Minnesota Reflections:
image/jp2
audio/mpeg

---

Master File Format

Formerly: digiSPECSformat
Definition: The file type of the master digital item.

Required: Yes
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Format
Guidelines for Data Entry: Using the pull-down list provided in the metadata spreadsheet, select the file format of the item.

Minneapolis Reflections Input Options: All options conform to valid Internet Media Types. For more information and a complete list of valid Internet Media Types please refer to http://www.iana.org/assignments/media-types/.

image/tiff
image/jp2
audio/wav
video/mp4
video/avi
video/x-ms-wmv
video/quicktime

Examples in Minnesota Reflections:
image/tiff
audio/wav
Master File Size

Formerly: digiSPECSSize
Definition: The file size expressed as the number of bytes.

Required: Yes
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Size
Guidelines for Data Entry: Enter the master file size expressed as the number of bytes.

Example in Minnesota Reflections:
18070004
61888412

Master File Bit Depth

Formerly: digiSPECSSbitdepth
Definition: The bit depth at which the item was scanned. Bit depth (sometimes referred to as color depth) describes the number of bits used to represent the color of a single pixel.

NOTE: A higher bit depth provides a broader range of distinct colors. MDL best practices recommend scanning items at 24-bit RGB color. Please contact the MDL Outreach Coordinator if you are considering submitting a project that deviates from MDL standards.

Common bit depths include:
  1-bit: 2 colors, black and white
  8-bit: 256 colors or shades of gray available
  24-bit: 16 million colors available

Required: Yes (if applicable)
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Bit Depth
Guidelines for Data Entry: Enter the bit depth at which the image was scanned. Contributing organizations submitting video or audio files should leave this field blank.

Examples in Minnesota Reflections:
24
Master File Resolution

**Formerly: digiSPECsResolution**

**Definition:** The resolution at which the item was scanned (not spatial resolution). This resolution should be expressed in pixels per inch (ppi).

**Required:** Yes (if applicable)

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Master File Resolution

**Guidelines for Data Entry:** Enter the resolution (not spatial resolution) at which the item was scanned. This resolution should be expressed in pixels per inch (ppi). Contributing organizations submitting video or audio files should leave this field blank.

**Examples in Minnesota Reflections:**
- 300
- 450
- 600

Master File Compression

**Formerly: digiSPECsCompression**

**Definition:** The compression scheme (if any) used for optimized storage and delivery of the digital object. The MDL requires that all master files be uncompressed.

**NOTE:** Please contact the MDL Outreach Coordinator if you are considering submitting a project that deviates from MDL standards.

**Required:** Yes

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Master File Compression

**Guidelines for Data Entry:** For all Minnesota Reflections projects we strongly recommended that all master files be saved with no compression. Enter ‘None’ into the spreadsheet column **Master File Compression** in order to express the fact that the master image was saved uncompressed.

**Example in Minnesota Reflections:**
- None
Master File Width

Formerly: digiSPECSwidth
Definition: The width, expressed in pixels, of the digital item.

Required: Yes (if applicable)
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Width
Guidelines for Data Entry: Enter the width, expressed in pixels, of the digital item. Contributing organizations submitting audio files should leave this field blank.

Example in Minnesota Reflections:
4037
5109

Master File Height

Formerly: digiSPECShight
Definition: The height, expressed in pixels, of the digital item.

Required: Yes (if applicable)
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Height
Guidelines for Data Entry: Enter the height, expressed in pixels, of the digital item. Contributing organizations submitting audio files should leave this field blank.

Example in Minnesota Reflections:
5564
4364
Master File Hardware

Formerly: digiSPECShardware
Definition: The name and model number of the hardware used to create the digital object. This is intended to capture information about the scanner or digital audio/video equipment used to create the digital content.

Required: No
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Hardware
Guidelines for Data Entry: Enter the hardware device used to create the digital object. (Examples: flatbed scanner, digital camera, etc.) Include the manufacturer’s name and model name/number.

Examples in Minnesota Reflections:
Epson Expression 10000XL
PhaseOne P65

Master File Software

Formerly: digiSPECSSoftware
Definition: The name and version number of the software used to create the digital object.

Required: No
Local Input: Yes

Enter Data into Spreadsheet Column: Master File Software
Guidelines for Data Entry: If more than one piece of software is used in the creation of the digital object, record both names separated by a semi-colon and a space.

Examples in Minnesota Reflections:
Adobe Photoshop CS5
SilverFast Ai 6; Adobe Photoshop CS5 (note: this is an illustrative example but is not in Minnesota Reflections)
Master File System

*Formerly: digiSPECSsystem*

**Definition:** The computer operating system and version used by the computer with which the digital object was created.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Master File System

**Guidelines for Data Entry:** Enter the computer operating system and version (to the greatest specificity possible) used by the computer with which the digital object was created.

**Examples in Minnesota Reflections:**
- Windows XP
- Mac OS10

Master File Checksum

*Formerly: digiSPECSchecksum*

**Definition:** An alpha-numeric value used to detect errors in file transmission or storage. The integrity of the digital data can be checked at a later time by re-computing the checksum and comparing it with the stored value. Checksums help to monitor the ongoing integrity of the digital objects.

**Required:** No

**Local Input:** Yes

**Enter Data into Spreadsheet Column:** Master File Checksum

**Guidelines for Data Entry:** Complete this field only if you have software that can generate an MD5 checksum. Enter the MD5 checksum value for the digital object.

**Example in Minnesota Reflections:**
38e41d48200aef78c1ee89542567ec00
## APPENDIX A

### Assigning a *Minnesota Reflections* Topic Term to an Item

<table>
<thead>
<tr>
<th><em>Minnesota Reflections</em> Topics</th>
<th>What items go here?</th>
</tr>
</thead>
</table>
| **Agriculture**                | Farms/farming/homesteading  
Crops/fields  
Threshing/Harvesting |
| **American Indians**           | Individuals and group portraits  
Reservations, villages and houses  
Clothing and dress |
| **Animals**                    | Animals should dominate the image |
| **Art and Architecture**       | House/building architectural drawings  
Fine arts – paintings, drawings, prints  
Studio portrait photography |
| **Business and Industry**      | Main street/central business districts  
Individual stores and businesses |
| **Communication**              | Newspapers/newsletters  
Advertisements  
Diaries/journals  
Letters |
| **Crime and Punishment**       | Police officers/sheriffs/state police  
Jails/prisons  
Posses/criminals |
| **Education**                  | Teachers/students  
Elementary schools/high schools  
Colleges and universities  
School buildings  
Campus/school grounds |
| **Environment**                | Forests/prairies/rivers/lakes  
State parks/city parks  
Landscape photographs |
| **Famous Minnesotans**         | Individuals recognized for their achievements:  
James J. and Mary Hill  
Walter and Joan Mondale  
Harriet Bishop |
<table>
<thead>
<tr>
<th>Category</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and Medicine</td>
<td>Alexander Ramsey, Hospitals/clinics, Doctors/nurses, Public health issues, Vaccinations/inoculations</td>
</tr>
<tr>
<td>Labor</td>
<td>Workers/employees, Strikes, May Day activities</td>
</tr>
<tr>
<td>Politics and Government</td>
<td>Soldiers/veterans /veterans homes, Political candidates, Political rallies, Courthouses, County and state office buildings</td>
</tr>
<tr>
<td>Religion</td>
<td>Churches/congregations, Baptisms/confirmations/Sunday school, Weddings/funerals, Church socials/picnics/church suppers</td>
</tr>
<tr>
<td>Social Issues</td>
<td>Immigration/U.S. citizenship, Civil Rights/GLBT issues/Women's Movement, WPA/CCC, Drinking/temperance/prohibition, German P.O.W.s</td>
</tr>
<tr>
<td>Sports and Recreation</td>
<td>Team and individual sports, Hobbies/recreation activities, Parades/carnivals, County fairs/Minnesota State Fair</td>
</tr>
<tr>
<td>Transportation</td>
<td>Airplanes/automobiles/trains /streetcars, Boats used for transportation (vs. recreation), Horse and buggy /carts/wagons</td>
</tr>
<tr>
<td>Weather</td>
<td>Storm damage from tornados and hail, Droughts, Floods, Snowstorms</td>
</tr>
</tbody>
</table>
APPENDIX B

Relationship between Item Type and Item Physical Format

<table>
<thead>
<tr>
<th>Item Type Values</th>
<th>Item Physical Format Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartographic</td>
<td>Atlases&lt;br&gt;Contour maps&lt;br&gt;Engineering maps&lt;br&gt;Fire insurance maps&lt;br&gt;Forestry maps&lt;br&gt;Maps&lt;br&gt;Plats (maps)&lt;br&gt;Relief maps&lt;br&gt;Topographic maps&lt;br&gt;Tourist maps&lt;br&gt;Transportation maps&lt;br&gt;Zoning maps</td>
</tr>
<tr>
<td>Mixed Material</td>
<td>No Item Physical Format values defined. Please leave this field blank.</td>
</tr>
<tr>
<td>Moving Image</td>
<td>Home movies&lt;br&gt;Independent films&lt;br&gt;Newsreels&lt;br&gt;Television programs</td>
</tr>
<tr>
<td>Notated Music</td>
<td>Hymnals&lt;br&gt;Librettos&lt;br&gt;Scores&lt;br&gt;Sheet music&lt;br&gt;Songbooks&lt;br&gt;Songs (document genre)</td>
</tr>
<tr>
<td>Sound Recording-Musical</td>
<td>Operas&lt;br&gt;Songs</td>
</tr>
<tr>
<td>Sound Recording-Nonmusical</td>
<td>Broadcasts&lt;br&gt;Oral histories&lt;br&gt;Speeches</td>
</tr>
<tr>
<td>Still Image</td>
<td>Aerial photographs&lt;br&gt;Albumen prints&lt;br&gt;Architectural drawings (visual works)</td>
</tr>
<tr>
<td>Black-and-white photographs</td>
<td></td>
</tr>
<tr>
<td>Cabinet photographs</td>
<td></td>
</tr>
<tr>
<td>Cartes-de-visite (card photographs)</td>
<td></td>
</tr>
<tr>
<td>Color photographs</td>
<td></td>
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<tr>
<td>Collodion prints</td>
<td></td>
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<tr>
<td>Contact prints</td>
<td></td>
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<tr>
<td>Cyanotypes</td>
<td></td>
</tr>
<tr>
<td>Daguerreotypes (photographs)</td>
<td></td>
</tr>
<tr>
<td>Drawings (visual works)</td>
<td></td>
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<tr>
<td>Gelatin silver prints</td>
<td></td>
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<tr>
<td>Negatives (photographic)</td>
<td></td>
</tr>
<tr>
<td>Paintings (visual works)</td>
<td></td>
</tr>
<tr>
<td>Panoramas</td>
<td></td>
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<tr>
<td>Photograph albums</td>
<td></td>
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<tr>
<td>Photographs</td>
<td></td>
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<tr>
<td>Postcards</td>
<td></td>
</tr>
<tr>
<td>Posters</td>
<td></td>
</tr>
<tr>
<td>Prints (visual works)</td>
<td></td>
</tr>
<tr>
<td>Scrapbooks</td>
<td></td>
</tr>
<tr>
<td>Sketchbooks</td>
<td></td>
</tr>
<tr>
<td>Stereographs</td>
<td></td>
</tr>
<tr>
<td>Studio portraits</td>
<td></td>
</tr>
<tr>
<td>Tintypes</td>
<td></td>
</tr>
</tbody>
</table>

<p>| Text                           |
| Accounts                       |
| Advertisements                 |
| Affidavits                     |
| Articles                       |
| Books                          |
| Booklets                       |
| Broadsides (notices)           |
| Bulletins                      |
| Calendars                      |
| Catalogs                       |
| Diaries                        |
| Genealogical tables            |
| Greeting cards                 |
| Instructional materials        |
| Invitations                    |
| Journals (accounts)            |
| Leaflets (printed works)       |
| Letters (correspondence)       |
| Manuscripts (document genre)   |
| Memorandums                    |
| Newsletters                     |
| Newspapers                     |
| Notes                          |
| Pamphlets                      |</p>
<table>
<thead>
<tr>
<th>Three-Dimensional Object</th>
<th>Poems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Programs</td>
</tr>
<tr>
<td></td>
<td>Reports</td>
</tr>
<tr>
<td></td>
<td>Schedules (time plans)</td>
</tr>
<tr>
<td></td>
<td>Speeches</td>
</tr>
<tr>
<td></td>
<td>Statutes</td>
</tr>
<tr>
<td></td>
<td>Telegrams</td>
</tr>
<tr>
<td></td>
<td>Containers</td>
</tr>
<tr>
<td></td>
<td>Costume</td>
</tr>
<tr>
<td></td>
<td>Furnishings</td>
</tr>
<tr>
<td></td>
<td>Recreational Artifacts</td>
</tr>
<tr>
<td></td>
<td>Tools and Equipment</td>
</tr>
<tr>
<td></td>
<td>Transportation Vehicles</td>
</tr>
<tr>
<td></td>
<td>Weapons and Ammunition</td>
</tr>
</tbody>
</table>
## APPENDIX C

### Item Physical Format – Glossary of Terms

- Select the **Item Type** first – then select an appropriate term from the **Item Type Physical Format** list below. See Appendix B for an illustration of the relationship between **Item Type** and **Item Physical Format**.
- Use the following terms to populate the field **Item Physical Format**. All of these terms are taken from the Getty Museum’s Art & Architecture Thesaurus Online ([http://www.getty.edu/research/conducting_research/vocabularies/aat/](http://www.getty.edu/research/conducting_research/vocabularies/aat/)).
- Contact the MDL Metadata Coordinator if you would like to use a term that is not currently listed. It can easily be added!
- To view the example in *Minnesota Reflections*, click on the link provided OR copy the identifier and paste it into the search box at the *Minnesota Reflections* site ([http://reflections.mndigital.org](http://reflections.mndigital.org)).

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
<th>AAT ID Number</th>
<th>Example in <em>Minnesota Reflections</em></th>
</tr>
</thead>
</table>
| Accounts      | Documents in which monies or goods received and paid or given out are recorded in order to permit periodic totaling. | 300145802     | [http://reflections.mndigital.org/u/?mhs,657](http://reflections.mndigital.org/u/?mhs,657)  
Local identifier: sa.gov020.2 |
| Advertisements| Public notices or paid announcements, especially those in print.            | 300193993     | [http://reflections.mndigital.org/u/?swede,4](http://reflections.mndigital.org/u/?swede,4)  
identifier: mhs03125 |
| Aerial photographs | Photographs of the earth taken from aircraft. Do not use for photographs of celestial bodies or astronomical phenomena. | 300128222     | [http://reflections.mndigital.org/u/?whs,205](http://reflections.mndigital.org/u/?whs,205)  
MDL identifier: umn34782 |
| Affidavits    | Sworn statements in writing; especially made upon oath before an authorized magistrate or officer. | 300027594     | [http://reflections.mndigital.org/u/?spl,444](http://reflections.mndigital.org/u/?spl,444)  
MDL identifier: umn11162a |
| Albumen prints | Photographic prints having albumen as the binder; always black-and-white, though they may be toned to a monochrome hue. | 300127121     | [http://reflections.mndigital.org/u/?nemhc,3537](http://reflections.mndigital.org/u/?nemhc,3537)  
MDL identifier: mhs08650 |
| Architectural drawings (visual works) | Drawings of architecture and architectural projects, whether the project was executed or not. The term may also refer to any image in a two-dimensional medium that serves this same purpose, including prints and computer images. NOTE: Blueprints and blue-line drawings should be entered as Architectural drawings. | 300034787 | [http://reflections.mndigital.org/u/?/naa,140](http://reflections.mndigital.org/u/?/naa,140) MDL identifier: naa2051 |
| Articles | Literary compositions prepared for publication as an independent portion of a magazine, newspaper, encyclopedia, or other work. | 300048715 | [http://reflections.mndigital.org/u/?/iml,181](http://reflections.mndigital.org/u/?/iml,181) MDL identifier: mhs09727 |
| Atlases | Volumes of maps, with or without descriptive text, which may be issued to supplement or accompany texts or be published independently. | 300028053 | [http://reflections.mndigital.org/u/?/mow,186](http://reflections.mndigital.org/u/?/mow,186) MDL identifier: umn35419 |
| Black-and-white photographs | Refers to a broad class of photographs having images in gray tones, black, and white, and sometimes one hue (which can result from chemical processes used, including toning, or from aging). | 300128347 | [http://reflections.mndigital.org/u/?/stc,207](http://reflections.mndigital.org/u/?/stc,207) MDL identifier: stc00231 |
| Books | Items comprising a collection of leaves of paper, parchment, wood, stiffened textile, ivory, metal tablets, or other flat material, that are blank, written on, or printed, and are strung or bound together in a volume. | 300028051 | [http://reflections.mndigital.org/u/?/mpls,1626](http://reflections.mndigital.org/u/?/mpls,1626) MDL identifier: umn36038 |
| Booklets | Small books consisting of a few sheets that are glued, stitched or stapled together between thin card or paper covers. | 300311670 | [http://reflections.mndigital.org/u/?/iml,106](http://reflections.mndigital.org/u/?/iml,106) MDL identifier: mhs09768 |
| **Broadcasts** | Transmissions of signals, usually taking the form of programs made public by means of radio. | 300263431 | None currently listed in *Minnesota Reflections* |
| **Broadsides (notices)** | Sizeable single-sheet notices or advertisements printed on one or both sides, often chiefly textual rather than pictorial, and printed to be read unfolded. | 300026739 | [http://reflections.mndigital.org/u/?mhs,502](http://reflections.mndigital.org/u/?mhs,502) MDL identifier: ms.gn00001.1.d1 |
| **Bulletins** | A serial publication issued by an organization or society, especially a short account, alert, or report of public news or events issued by authority. | 300311679 | [http://reflections.mndigital.org/u/?mgs,907](http://reflections.mndigital.org/u/?mgs,907) MDL identifier: umn23322 |
| **Cabinet photographs** | Mounted on cards and a larger alternative to the *Cartes-de-visite*. The larger size (approximately 6 ½ x 4 ¼ inches) was considered more appropriate for display, allowed for group portraits, and permitted the image to be retouched. Popular until World War I. | 300127131 | [http://reflections.mndigital.org/u/?bsc,2397](http://reflections.mndigital.org/u/?bsc,2397) MDL identifier: mhs04599 |
| **Calendars** | Registers of days or other contrivances for reckoning days, months, years, etc., such as a table showing the division of a given year into its months, weeks, days, years, or other divisions of time. | 300026741 | None currently listed in *Minnesota Reflections* |
| **Cartes-de-visite (card photographs)** | Refers to small-format photographs affixed to card stock. They were typically portraits and the image was a standard size of 3 ⅛ x 2 ⅛ inches. They went out of fashion in the 1870s. | 300127141 | [http://reflections.mndigital.org/u/?pch,812](http://reflections.mndigital.org/u/?pch,812) MDL identifier: umn80912 |
| **Catalogs** | Enumerations of items, such as a file of bibliographic records or a list of art objects, usually arranged systematically and with descriptive details; may be in book or pamphlet form, or on cards | 300026059 | [http://reflections.mndigital.org/u/?stc,955](http://reflections.mndigital.org/u/?stc,955)  
*Local identifier: scsucatalog1886_87* |
| Color photographs | The broad class of photographs having images composed of more than one hue, plus the neutral tones. For photographs having a range of tones within one hue, see *Black-and-white photographs*. | 300128359 | [http://reflections.mndigital.org/u/?bsm,96](http://reflections.mndigital.org/u/?bsm,96)  
*MDL identifier: umn23961* |
| **Collodion prints** | Photographic prints having collodion as the binder. | 300134696 | [http://reflections.mndigital.org/u/?clc,1](http://reflections.mndigital.org/u/?clc,1)  
*MDL identifier: mhs06839* |
| **Contact prints** | Photographic prints made by interfacing a negative and a sheet of photographic paper and exposing the paper with raw light. | 300127169 | [http://reflections.mndigital.org/u/?swede,37](http://reflections.mndigital.org/u/?swede,37)  
*MDL identifier: umn16623* |
| **Containers** (hierarchy name) | The **Containers** hierarchy contains descriptors for artifacts used to hold substances or objects. Included are descriptors for containers intended for culinary use, for horticultural use, for health care, hygiene, and similar personal needs as well as descriptors for containers associated with liturgical, funerary, and other ceremonial activities.  
*Examples: Baskets, Buckets, Tea tins* | 300045611 | None currently listed in *Minnesota Reflections* |
| **Contour maps** | Maps showing elevation and the configuration of the ground by the use of contour lines and usually lacking other detail. | 300028393 | [http://reflections.mndigital.org/u/?mgs,780](http://reflections.mndigital.org/u/?mgs,780)  
*MDL identifier: umn22332* |
| **Costume** (hierarchy name) | The *Costume* hierarchy contains descriptors for objects worn or carried for warmth, protection, embellishment, or for symbolic purposes. It includes descriptors for garments considered items of dress (e.g., shirts, trousers, undershirts, parkas). Also included are descriptors for protective wear, including types of armor; vestments and other ceremonial garments; uniforms; and other accessories, including those worn on the body (e.g., bonnets, moccasins) and those carried on the person (e.g., evening bags, parasols).

*Examples: Trousers, Parasols, Uniforms* | 300209261 | None currently listed in *Minnesota Reflections* |

| **Cyanotypes** (photographic prints) | Blue-toned photographic prints produced by the blueprint process. These do NOT include reproductive prints of architectural or other technical drawings; for these, use *Architectural drawings*.

[MDL identifier: mhs11186](http://reflections.mndigital.org/u?/mpls,1360) | 300134811 | [http://reflections.mndigital.org/u?/mpls,1360](http://reflections.mndigital.org/u?/mpls,1360) |

| **Daguerreotypes** (photographs) | *Daguerreotypes* produce a direct positive image on a silver-coated copper plate. They are often mounted in special cases lined with colored velvet or leather.

*NOTE: Daguerreotypes are not to be confused with *Tintypes which use a thin sheet of lacquered iron as the image support.* | 300127181 | [http://reflections.mndigital.org/u?/bsc,2630](http://reflections.mndigital.org/u?/bsc,2630) |

MDL identifier: mhs03519
| **Diaries** | Refers to books containing the daily, personal accounts of the writer's own experiences, attitudes, and observations. Use *Journals (accounts)* when referring to an individual's or an organization's account of occurrences or transactions. | 300027112 | [http://reflections.mndigital.org/u/?mpls,779](http://reflections.mndigital.org/u/?mpls,779) | MDL identifier: umn16861 |
| **Drawings (visual works)** | Visual works produced by drawing, which is the application of lines on a surface, often paper, by using a pencil, pen, chalk, or some other tracing instrument to focus on the delineation of form rather than the application of color. | 300033973 | [http://reflections.mndigital.org/u/?stbm,253](http://reflections.mndigital.org/u/?stbm,253) | MDL identifier: SBM.02a |
| **Engineering maps** | Maps, usually maintained in the public works or engineering departments of a city, showing information such as street and rail rights of way, location of bridges, and grade separations; used for planning and executing engineering work in a locality. | 300028364 | [http://reflections.mndigital.org/u/?nemhc,2771](http://reflections.mndigital.org/u/?nemhc,2771) | MDL identifier: umn17037 |
| **Fire insurance maps** | Maps prepared primarily for fire insurance underwriters, showing information, such as type of construction, about structures in a given area. | 300028187 | [http://reflections.mndigital.org/u/?mpls,275](http://reflections.mndigital.org/u/?mpls,275) | MDL identifier: umn18745 |
| **Forestry maps** | Refers to maps of a given region, intended to chart the areas covered by forests and other vegetation. They typically record the boundaries of the forest, the relief of the area, assessments of timber volume and expected growth rates, and features or projections related to concerns such as animal or human inhabitants and ecological matters. | 300028249 | [http://reflections.mndigital.org/u/?irrc,2267](http://reflections.mndigital.org/u/?irrc,2267) MDL identifier: umn34783 |
| **Furnishings** (hierarchy name) | The Furnishings hierarchy contains descriptors for primarily movable articles that provide comfort, convenience, or protection in dwellings, places or business, or other public or private spaces. They may be useful or ornamental and may be used in indoor or outdoor spaces.  
*Examples: Windsor chair, sofa, sewing table* | 300037335 | None currently listed in *Minnesota Reflections* |
<p>| <strong>Gelatin silver prints</strong> | Refers to photographic prints having gelatin as the binder, holding silver as the final image material; always black-and-white, though they may be toned to a monochrome hue. | 300128695 | <a href="http://reflections.mndigital.org/u/?nemhc,2824">http://reflections.mndigital.org/u/?nemhc,2824</a> MDL identifier: umn01255 |
| <strong>Genealogical tables</strong> | Documents representing the lineage of a person or persons in tabular or diagrammatic form. | 300027016 | None currently listed in <em>Minnesota Reflections</em> |
| <strong>Greeting cards</strong> | Cards often imprinted with messages and suitable illustrations, sent or given on special occasions or holidays. | 300026778 | <a href="http://reflections.mndigital.org/u/?blue,1887">http://reflections.mndigital.org/u/?blue,1887</a> MDL identifier: mhs04257a |</p>
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>MDL Identifier</th>
<th>Metadata Link</th>
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</thead>
<tbody>
<tr>
<td>Home movies</td>
<td>Motion pictures on film or videotape made by amateurs, or professionals in a nonprofessional capacity, intended for home viewing by family and friends. People, scenes and events filmed generally feature the filmmakers' immediate circle and personal activities.</td>
<td>300263874</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td>Independent films</td>
<td>Motion pictures created by independent filmmakers, without financial backing from a major studio and with generally a greater degree of artistic control in the hands of the filmmakers than is the case with studio films.</td>
<td>300263844</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td>Instructional materials</td>
<td>Print or non-print materials used for the purpose of imparting knowledge, attitudes, or skills to others.</td>
<td>300026367</td>
<td><a href="http://reflections.mndigital.org/u/?winona,607">http://reflections.mndigital.org/u/?winona,607</a> Local identifier: MR2</td>
</tr>
<tr>
<td>Invitations</td>
<td>Engraved, printed, or written expressions requesting a person's company at a certain event at a given time and place.</td>
<td>300027083</td>
<td><a href="http://reflections.mndigital.org/u/?sew,78">http://reflections.mndigital.org/u/?sew,78</a> MDL identifier: mhs10471c</td>
</tr>
<tr>
<td>Journals (accounts)</td>
<td>Books containing accounts of an individual's or organization's occurrences or transactions, including records of financial transactions. Use <em>Diaries</em> when referring to personal accounts of the writer's experiences, attitudes, or observations.</td>
<td>300027087</td>
<td><a href="http://reflections.mndigital.org/u/?mhd,286">http://reflections.mndigital.org/u/?mhd,286</a> MDL identifier: umn20814</td>
</tr>
</tbody>
</table>
| **Leaflets (printed works)** | Small printed works consisting of one small-sized leaf of paper folded and not stitched or bound, containing printed matter, chiefly for gratuitous distribution. | 300211825 | [http://reflections.mndigital.org/u/?jhs,615](http://reflections.mndigital.org/u/?jhs,615)  
**MDL identifier:** mhs14307 |
| **Letters (correspondence)** | Pieces of correspondence that are somewhat more formal than memoranda or notes, usually on paper and delivered. | 300026879 | [http://reflections.mndigital.org/u/?p15160coll1,1612](http://reflections.mndigital.org/u/?p15160coll1,1612)  
**Local identifier:** B1F8L10 |
| **Librettos** | Books or booklets containing the text or words of an opera or similar extended musical composition. | 300026424 | None currently listed in *Minnesota Reflections* |
| **Manuscripts (document genre)** | Handwritten documents, particularly books and other documents created before the invention of the printing press. May also be used to distinguish certain documents from published or printed documents, such as typed personal letters or a typescript from which printed versions are made. | 300028569 | [http://reflections.mndigital.org/u/?bsm,537](http://reflections.mndigital.org/u/?bsm,537)  
**MDL identifier:** umn44586 |
| **Maps** | Refers to graphic or photogrammetric representations of the Earth’s surface or a part of it, including physical features and political boundaries, where each point corresponds to a geographical or celestial position according to a definite scale or projection. The term may also refer to similar depictions of other planets, suns, other heavenly bodies, or areas of the heavens. | 300028094 | [http://reflections.mndigital.org/u/?mgs,1179](http://reflections.mndigital.org/u/?mgs,1179)  
**MDL identifier:** umn22528 |
| **Memorandums** | Documents recording information used for internal communication. | 300026906 | [http://reflections.mndigital.org/u/?spl,462](http://reflections.mndigital.org/u/?spl,462)  
**MDL identifier:** umn11238a |
<table>
<thead>
<tr>
<th><strong>Negatives</strong> (photographic)</th>
<th>Photographs, usually on a transparent support, in which the tones or colors are reversed from their appearance in nature. This includes glass plate negatives.</th>
<th>300127173</th>
<th><a href="http://reflections.mndigital.org/u/?/clc,1">http://reflections.mndigital.org/u/?/clc,1</a> MDL identifier: mhs06839</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newsletters</td>
<td>Letters, reports, or other brief written communications that communicate news, particularly those written by societies or business organizations. Historically referred to serial publications consisting of one or a few printed sheets containing news and information of interest to the general public or to a special group.</td>
<td>300026652</td>
<td><a href="http://reflections.mndigital.org/u/?/hzf,40">http://reflections.mndigital.org/u/?/hzf,40</a> MDL identifier: mhs07508</td>
</tr>
<tr>
<td>Newspapers</td>
<td>Serials published at stated, frequent intervals, such as daily or weekly, and containing news, editorials, features, advertisements, and other items of current interest.</td>
<td>300026656</td>
<td><a href="http://reflections.mndigital.org/u/?/spl,686">http://reflections.mndigital.org/u/?/spl,686</a> Local identifier: 97 Newspaper Clipping</td>
</tr>
<tr>
<td>Newsreels</td>
<td>Nonfiction motion pictures originally released to theaters in periodic issues, each issue consisting of a number of news stories reporting or commenting on recent events. Typically American newsreels ran for about ten minutes and were issued twice weekly. Their principal years of production in the U.S. ran from 1910 to the 1960s.</td>
<td>300263837</td>
<td>None currently listed in Minnesota Reflections</td>
</tr>
<tr>
<td>Notes</td>
<td>Brief statements of a fact or experience, written down for review, or as an aid to memory, or to inform someone else; also includes short, informal letters.</td>
<td>300027200</td>
<td>None currently listed in Minnesota Reflections</td>
</tr>
<tr>
<td><strong>Operas</strong></td>
<td>Dramatic musical performances in which most roles are sung with instrumental accompaniment, usually including arias, recitatives, and choruses. Typically, they are intended to be staged with costumes, sets, and dramatic movement.</td>
<td>300255765</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Oral histories</strong></td>
<td>Works that record interviews conducted to preserve the recollections of persons whose experience or memories are representative or are of special historical or social significance.</td>
<td>300202595</td>
<td><a href="http://reflections.mndigital.org/u/?nemhc,3869">http://reflections.mndigital.org/u/?nemhc,3869</a> MDL identifier: umn37826</td>
</tr>
<tr>
<td><strong>Paintings (visual works)</strong></td>
<td>Unique works in which images are formed primarily by the direct application of pigments suspended in oil, water, egg yolk, molten wax, or other liquid, arranged in masses of color, onto a generally two-dimensional surface.</td>
<td>300033618</td>
<td><a href="http://reflections.mndigital.org/u/?nlc,10">http://reflections.mndigital.org/u/?nlc,10</a> MDL identifier: nlc00012</td>
</tr>
<tr>
<td><strong>Panoramas</strong></td>
<td>Refers generally to pictorial representations with very broad horizontal ranges of view. The term is also used specifically for photographs that show a wide view produced by a panoramic camera or by joining photographs together.</td>
<td>300015537</td>
<td><a href="http://reflections.mndigital.org/u/?irrc,2519">http://reflections.mndigital.org/u/?irrc,2519</a> MDL identifier: umn38997</td>
</tr>
<tr>
<td><strong>Pamphlets</strong></td>
<td>Independent publications consisting of a few leaves of printed matter folded or fastened together but not bound, often with no cover or a paper cover. For smaller printed works, of one sheet folded and not stitched or bound, use Leaflets (printed works).</td>
<td>300220572</td>
<td><a href="http://reflections.mndigital.org/u/?jhs,610">http://reflections.mndigital.org/u/?jhs,610</a> MDL identifier: mhs14303</td>
</tr>
</tbody>
</table>
| **Plats (maps)** | Maps, charts, or plans that show the location, boundaries, and ownership of individual properties. | 300028125 | [http://reflections.mndigital.org/u/?pch,724](http://reflections.mndigital.org/u/?pch,724)  
*MDL identifier: umn38903* |
| **Photograph albums** | Albums made up of mounted photographs, with or without identifying information. | 300026695 | [http://reflections.mndigital.org/u/?rtc,831](http://reflections.mndigital.org/u/?rtc,831)  
*MDL identifier: umn16238* |
| **Poems** | Written or oral compositions characterized by condensed language chosen for sound and suggestive power as well as meaning, and by the use of such literary techniques as structured meter, natural cadences, rhyme, or metaphor. | 300026451 | [http://reflections.mndigital.org/u/?p15160coll1,1893](http://reflections.mndigital.org/u/?p15160coll1,1893)  
*Local identifier: B1F19L1* |
| **Postcards** | Cards on which a message may be written or printed for mailing without an envelope, usually at a lower rate than that for letters in envelopes. | 300026816 | [http://reflections.mndigital.org/u/?nico,2122](http://reflections.mndigital.org/u/?nico,2122)  
*MDL identifier: umn39493a* |
| **Posters** | Notices, usually decorative or pictorial, intended to be posted to advertise, promote, or publicize an activity, cause, product, or service; also, decorative, mass-produced prints intended for hanging. | 300027221 | [http://reflections.mndigital.org/u/?wch,333](http://reflections.mndigital.org/u/?wch,333)  
*MDL identifier: mhs07141* |
| **Prints (visual works)** | Pictorial works produced by transferring images by means of a matrix such as a plate, block, or screen, using any of various printing processes. Common types of prints include engravings, etchings and lithographs. | 300041273 | [http://reflections.mndigital.org/u/?nico,1614](http://reflections.mndigital.org/u/?nico,1614)  
*MDL identifier: umn10280* |
<table>
<thead>
<tr>
<th><strong>Programs (documents)</strong></th>
<th>Brief outlines or explanations of the order to be pursued, criteria for participation, or the subjects embraced in a given event or endeavor. Includes lists of the features composing a dramatic or other performance, with the names of participants.</th>
<th>300027240</th>
<th><a href="http://reflections.mndigital.org/u/?mpls,2586">http://reflections.mndigital.org/u/?mpls,2586</a> MDL identifier: umn78101</th>
</tr>
</thead>
</table>
| **Recreational artifacts** *(hierarchy name)* | Equipment and accessories used in a large array of activities engaged in for personal satisfaction or amusement during leisure time. Included are descriptors for such things as playthings and personal fitness equipment and other devices used as pastimes or during competitive play.  

*Examples: Croquet sets, Hockey sticks, Toys, Games* | 300136012 | None currently listed in *Minnesota Reflections* |
<p>| <strong>Relief maps</strong> | Maps showing land or sea bottom relief in terms of height above or below a datum by any method, such as contours, hachures, shading, or tinting. | 300028387 | <a href="http://reflections.mndigital.org/u/?mgs,936">http://reflections.mndigital.org/u/?mgs,936</a> MDL identifier: umn22440 |
| <strong>Reports</strong> | Official or formal records of a special investigation, in the form of documents containing presentations of facts, proceedings, investigations, or events. | 300027267 | <a href="http://reflections.mndigital.org/u/?sll,6237">http://reflections.mndigital.org/u/?sll,6237</a> MDL identifier: umn23986-umn24495 |
| <strong>Schedules (time plans)</strong> | Plans of procedure, showing the sequence of items or operations and the time allotted for each. | 300027339 | <a href="http://reflections.mndigital.org/u/?msn,784">http://reflections.mndigital.org/u/?msn,784</a> MDL identifier: mhs10646 |</p>
<table>
<thead>
<tr>
<th><strong>Scores</strong></th>
<th>Original and entire drafts or transcripts of musical compositions or arrangements, with the parts of all the different instruments or voices written on staffs one above another, so that they can be read at a glance.</th>
<th>300026427</th>
<th>None currently listed in <em>Minnesota Reflections</em></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scrapbooks</strong></td>
<td>Books or albums designed so that a variety of items may be affixed to the pages, including photographs, clippings, and other memorabilia.</td>
<td>300027341</td>
<td><a href="http://reflections.mndigital.org/u/?nsm,71">http://reflections.mndigital.org/u/?nsm,71</a> MDL identifier: umn34498</td>
</tr>
<tr>
<td><strong>Sheet music</strong></td>
<td>Music printed on unbound sheets of paper. <strong>Compare to Songbooks.</strong></td>
<td>300026430</td>
<td><a href="http://reflections.mndigital.org/u/?wch,374">http://reflections.mndigital.org/u/?wch,374</a> MDL identifier: mhs07190</td>
</tr>
<tr>
<td><strong>Sketchbooks</strong></td>
<td>Books or pads of blank sheets used or intended for sketching, which are informal or rough drawings.</td>
<td>300027354</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Songbooks</strong></td>
<td>Books containing brief musical compositions written or adapted for singing. <strong>Compare to Sheet music.</strong></td>
<td>300026432</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Songs</strong></td>
<td>Musical compositions, generally short, containing words. The document genre includes printed and hand-written musical score and/or lyrics.</td>
<td>300167056</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Songs (document genre)</strong></td>
<td><strong>Sound recording-musical)</strong> Sound recording of a song (short musical compositions, generally containing words).</td>
<td></td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Speeches</strong></td>
<td>Documents containing the text of any public address or talk. Also includes sound recording in which someone is orating a public address or talk.</td>
<td>300026671</td>
<td>None currently listed in <em>Minnesota Reflections</em></td>
</tr>
<tr>
<td><strong>Statutes</strong></td>
<td>Acts of a legislature declaring, commanding, or prohibiting something, expressed according to the forms necessary to constitute law.</td>
<td>300027891</td>
<td><a href="http://reflections.mndigital.org/u/?sll,1777">http://reflections.mndigital.org/u/?sll,1777</a> Local identifier: KFM5929.A2 M56 1849</td>
</tr>
</tbody>
</table>
| **Stereographs** | Refers to the most popular and common form of stereoscopic photographs, which are double photographs of the same image taken from two slightly different perspectives. *Stereographs* are distinctive among other stereoscopic photographs because they are photographic prints mounted on cards. | 300127197 | [http://reflections.mndigital.org/u/?mpls,234](http://reflections.mndigital.org/u/?mpls,234)  
MDL identifier: mhs00767 |
| **Studio portraits** | Portraits taken in a professional photographer's studio, often making use of backdrops or props. | 300223022 | [http://reflections.mndigital.org/u/?scott,368](http://reflections.mndigital.org/u/?scott,368)  
MDL identifier: umn39657 |
| **Telegrams** | Messages sent by telegraph. | 300026909 | [http://reflections.mndigital.org/u/?spl,799](http://reflections.mndigital.org/u/?spl,799)  
Local identifier: 85 Western Union Telegram |
| **Television programs** | Presentations of informational or entertainment shows such as news, sports, drama, comedy, music, documentary, talk or game shows to the public by means of television transmission. | 300263432 | None currently listed in *Minnesota Reflections* |
| **Tintypes** | Photographs produced by the wet collodion process and then placed directly on thin sheets of lacquered metal, usually iron.  
**NOTE:** *Tintypes* are not to be confused with *Daguerreotypes* which utilize a copper plate for the image support. | 300134759 | [http://reflections.mndigital.org/u/?irrc,1556](http://reflections.mndigital.org/u/?irrc,1556)  
MDL identifier: irr00143 |
| **Tools and Equipment** (hierarchy name) | The *Tools and Equipment* hierarchy contains descriptors for equipment used in processing materials and fabricating objects as well as descriptors associated with activities and disciplines in the construction industry, design professions, the fine and decorative arts, and other aspects of material culture.  

*Examples:* Sewing machines, Toasting forks, Cradleboards, Hand mirrors | 300022238 | None currently listed in *Minnesota Reflections* |
|---|---|---|---|
| **Topographic maps** | Refers to maps representing a region at a level of detail or scale between a plan, which is a small area, and a chorographic map, which is a large regional map. Topographic maps include accurate representations of the location and shape of both natural and manmade features. The term refers to maps of various scales in different nations; it is generally limited to maps at scales of 1:500,000 or larger in the U.S. The term is often mistakenly interpreted to mean maps that only represent natural relief features. | 300028361 | [http://reflections.mndigital.org/u/?irrc,2243](http://reflections.mndigital.org/u/?irrc,2243)  
MDL identifier: umn34888 |
| **Tourist maps** | Maps intended to introduce a region or locality to tourists, who are visitors to an unfamiliar place, particularly those who travel for pleasure or culture, usually to visit a number of places with the goal of experiencing places of interest and scenery. | 300028298 | [http://reflections.mndigital.org/u/?whs,199](http://reflections.mndigital.org/u/?whs,199)  
MDL identifier: umn34774 |
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>MDL Identifier</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation maps</td>
<td>Maps intended to assist people in the navigation and use of a particular city or region's transit system. Transit systems can include bus, street car, trolley, rail, or road systems. These maps often include route information, timetables, fare information and local points of interest.</td>
<td>300028300</td>
<td><a href="http://reflections.mndigital.org/u/?/mdt,215">http://reflections.mndigital.org/u/?/mdt,215</a> MDL identifier: umn13507</td>
</tr>
<tr>
<td>Transportation Vehicles</td>
<td>The <em>Transportation Vehicles</em> hierarchy contains descriptors for individual vehicles designed to carry or convey merchandise, materials, or passengers across a distance, whether on land or water, or through water, air, or space. Examples: Airplane, Stagecoach, canoe.</td>
<td>300042929</td>
<td>None currently listed in Minnesota Reflections</td>
</tr>
<tr>
<td>Weapons and Ammunition</td>
<td>The <em>Weapons and Ammunition</em> hierarchy contains descriptors for implements and mechanisms designed to be used as a means of physical attack or defense. Included are weapons such as swords, ground- or carriage-supported artillery, arrowheads, and objects propelled by firearms (e.g., cartridges). Also included are weapons used for purely ceremonial purposes (e.g., dress swords). Examples: Swords, American Long Rifles, Spears.</td>
<td>300036743</td>
<td>None currently listed in Minnesota Reflections</td>
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<td>Zoning maps</td>
<td>Maps delineating the boundaries of districts which, along with the zoning text, comprise the zoning ordinances.</td>
<td>300028242</td>
<td><a href="http://reflections.mndigital.org/u/?/mpls,1466">http://reflections.mndigital.org/u/?/mpls,1466</a> MDL identifier: umn35759</td>
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# APPENDIX D

*Minnesota Reflections* Data Entry Quick Guide

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