Digitization of Texas Agricultural Experiment Station Documents for Inclusion in the Institutional Repository and World Wide Access

By
Dr. Rob McGeachin
Texas A&M University Libraries
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Overview

- Project Goals
- Project Design
  - Equipment & software
  - File naming
  - Image and PDF files
  - Metadata
- Institutional Repository

Project Goals

- Develop Ag Content for National Digital Library for Agriculture
- Archival Quality Digitization of the Bulletin of the Texas Agricultural Experiment Station
- Make Texas Publications Accessible to the World
- Make Metadata Records Harvestable to Other Indexing and Search Sites

Funding

- Specific Cooperative Agreement with the National Agricultural Library (USDA - ARS)
- Three years -- $11,990 for student wages and supplies
- Cost sharing of Principal Investigator’s time – 20%

Project Design – Equipment and Software

- Computer Workstation
- 100 GB External Hard Drive
- OpticBook 3600 Book Edge Scanner and Software
- Adobe Acrobat Ver. 7.0
- D-Space Software
- Lots of IR File Storage – about 600 GB

Project Design – File Naming

- Name folders by Publication and Publication Year
- Ex: TAES Bulletin
  - 1888
  - 1889
- Filename: Bulletin Number, Page Number
- Ex: b0001 0001.tif …. b0001 0004.tif;
- Filename: Bulletin Number
- ex: Bull0001.pdf …. Bull0535.pdf

Project Design – TIFF Image Files

- One image file per page, including blanks
- Scan at 400 dpi for text pages
- Scan at 600 dpi for illustration pages
- Scan as grayscale unless color illustration
- Text pages = 6 MB, illustrations = 14 MB

Project Design – PDF Files

- Add each page image file to document
- Perform OCR on all pages to generate text
- Rotate illustration pages 90 degrees
- Save as fully searchable PDF file
- Full Bulletin text searchable in TxSpace

Project Design -- Metadata

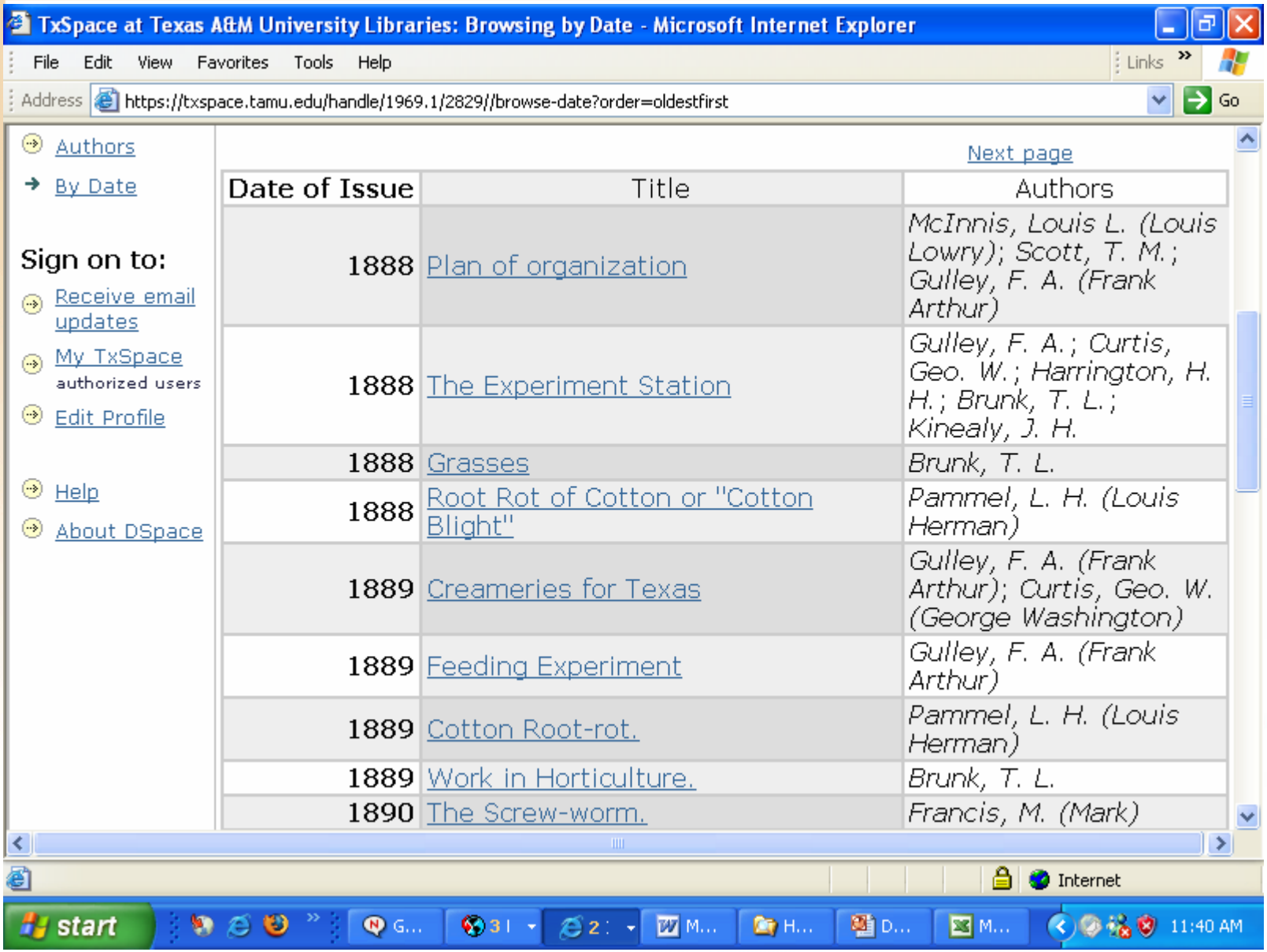
- NAL modified Dublin Core
- Include author, title, keywords, date, series
- Include NAL Thesaurus Subject Terms
- Initial Records in Excel Spreadsheet
- Entry part of D-Space workflow
- Metadata OAI harvestable

Institutional Repository

- **TxSpace**
- **http://txspace.tamu.edu/**
- **Organized by Academic and Agency Units**
- **Upload Archival TIFF files, PDF Files, and Enter Metadata**
- **Example: https://txspace.tamu.edu/bitstream/1969.1/2850/9/Bull0012.pdf**

TxSpace Institutional Repository

TxSpace Institutional Repository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1888 Plan of organization
McInnis, Louis L. (Louis Lowry); Scott, T. M.; Gulley, F. A. (Frank Arthur)
1888 The Experiment Station
Gulley, F. A.; Curtis, Geo. W.; Harrington, H. H.; Brunk, T. L.; Kinealy, J. H.
1888 Grasses
Brunk, T. L.
1888 Root Rot of Cotton or "Cotton Blight"
Pammel, L. H. (Louis Herman)
1889 Creameries for Texas
Gulley, F. A. (Frank Arthur); Curtis, Geo. W. (George Washington)
1889 Feeding Experiment
Gulley, F. A. (Frank Arthur)
1889 Cotton Root-rot.
Pammel, L. H. (Louis Herman)
1889 Work in Horticulture.
Brunk, T. L.
1890 The Screw-worm.
Francis, M. (Mark)
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Keywords: screwworm
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Citation: Bulletin / Texas Agricultural Experiment Station ; no. 12.
Series/Report no.: Texas Agricultural Experiment Station Bulletin 12
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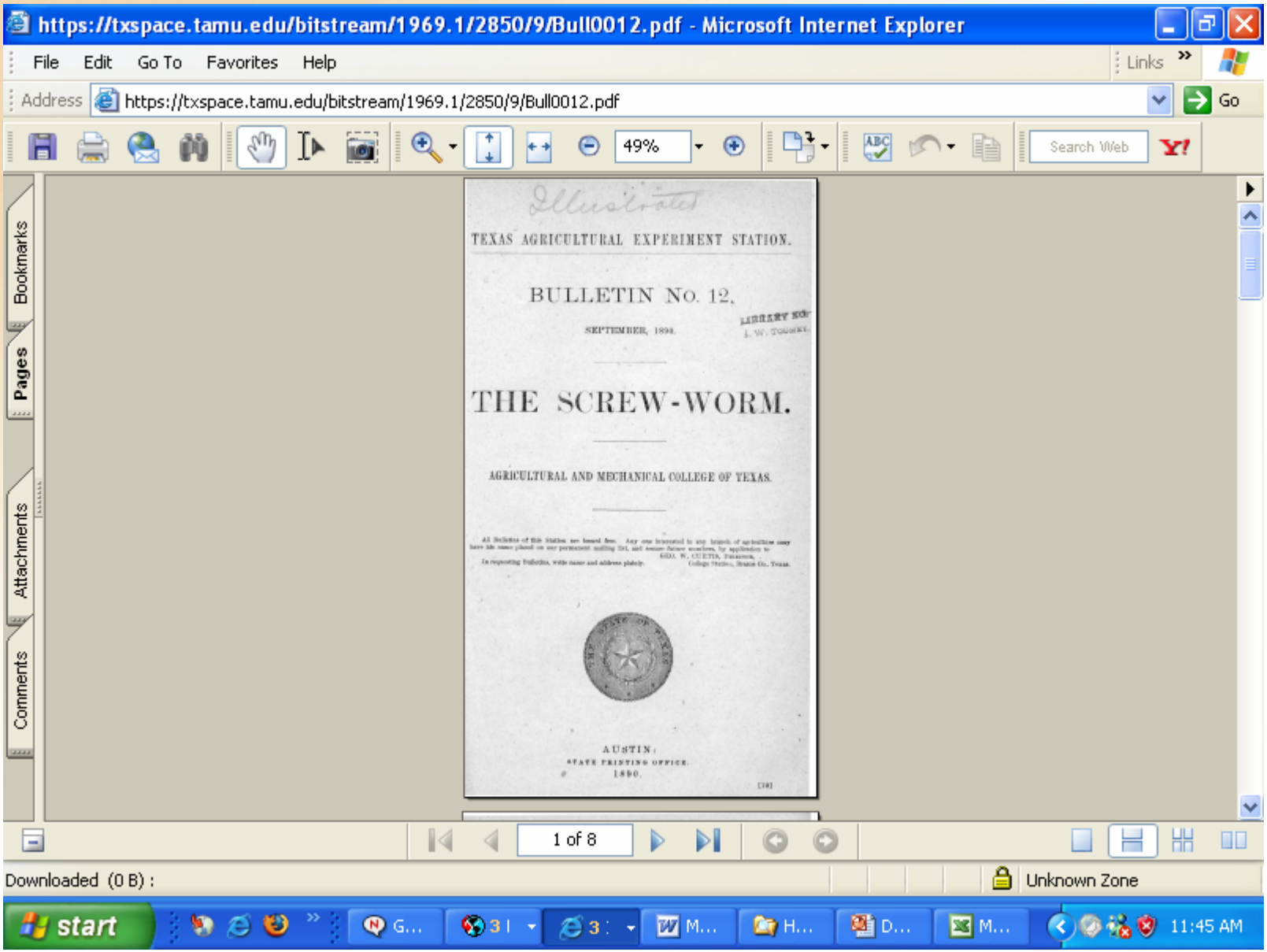
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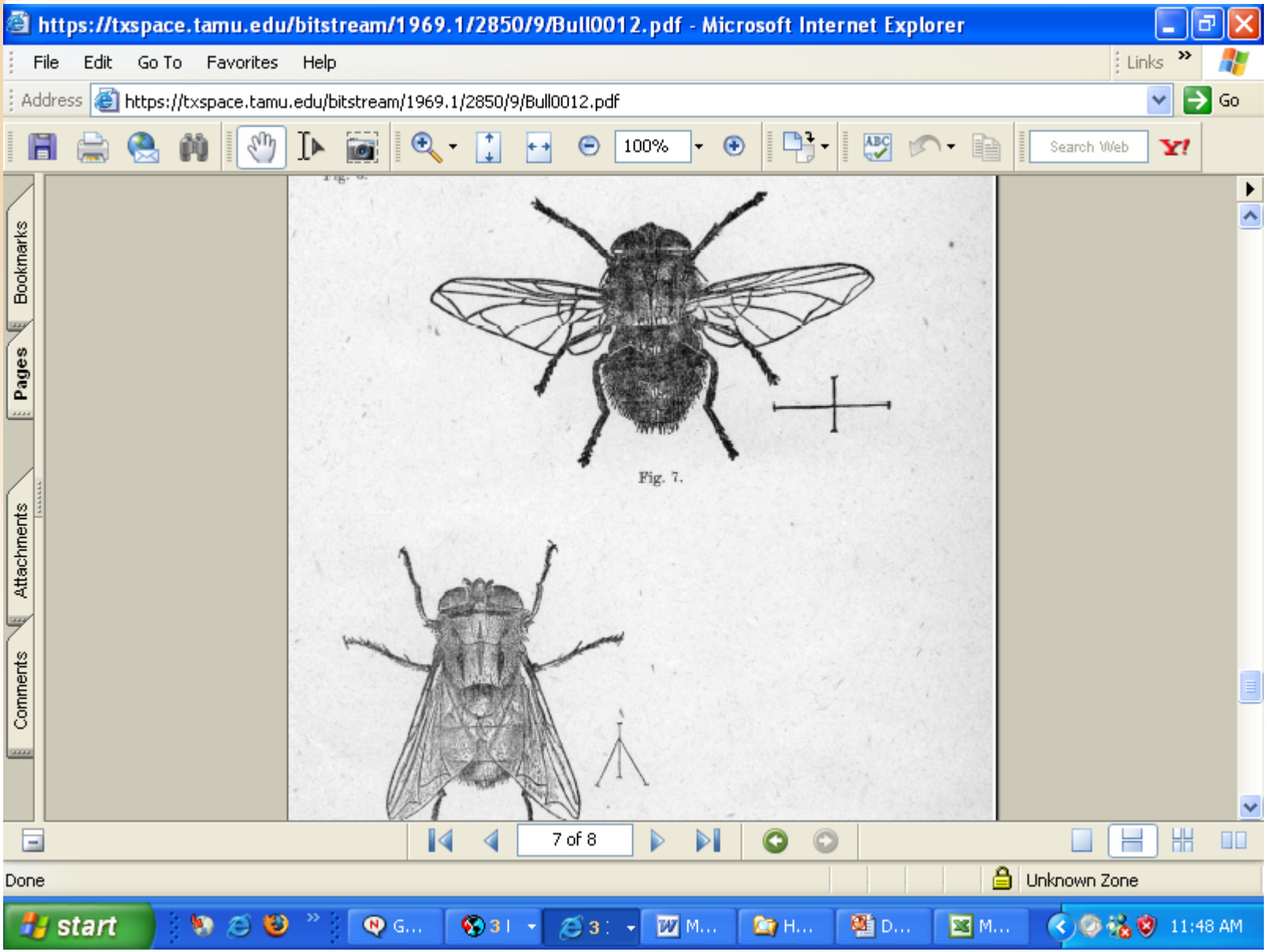
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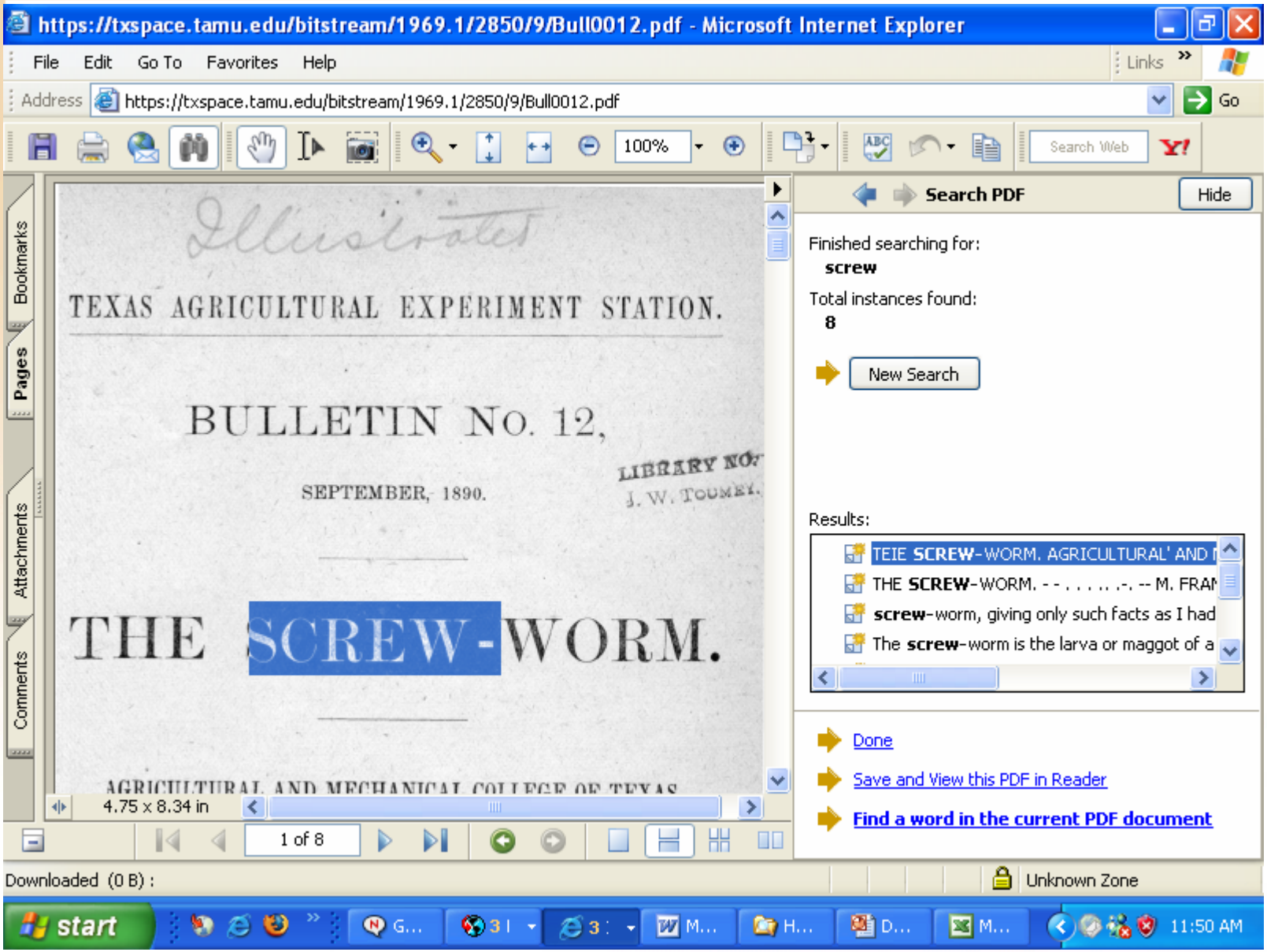
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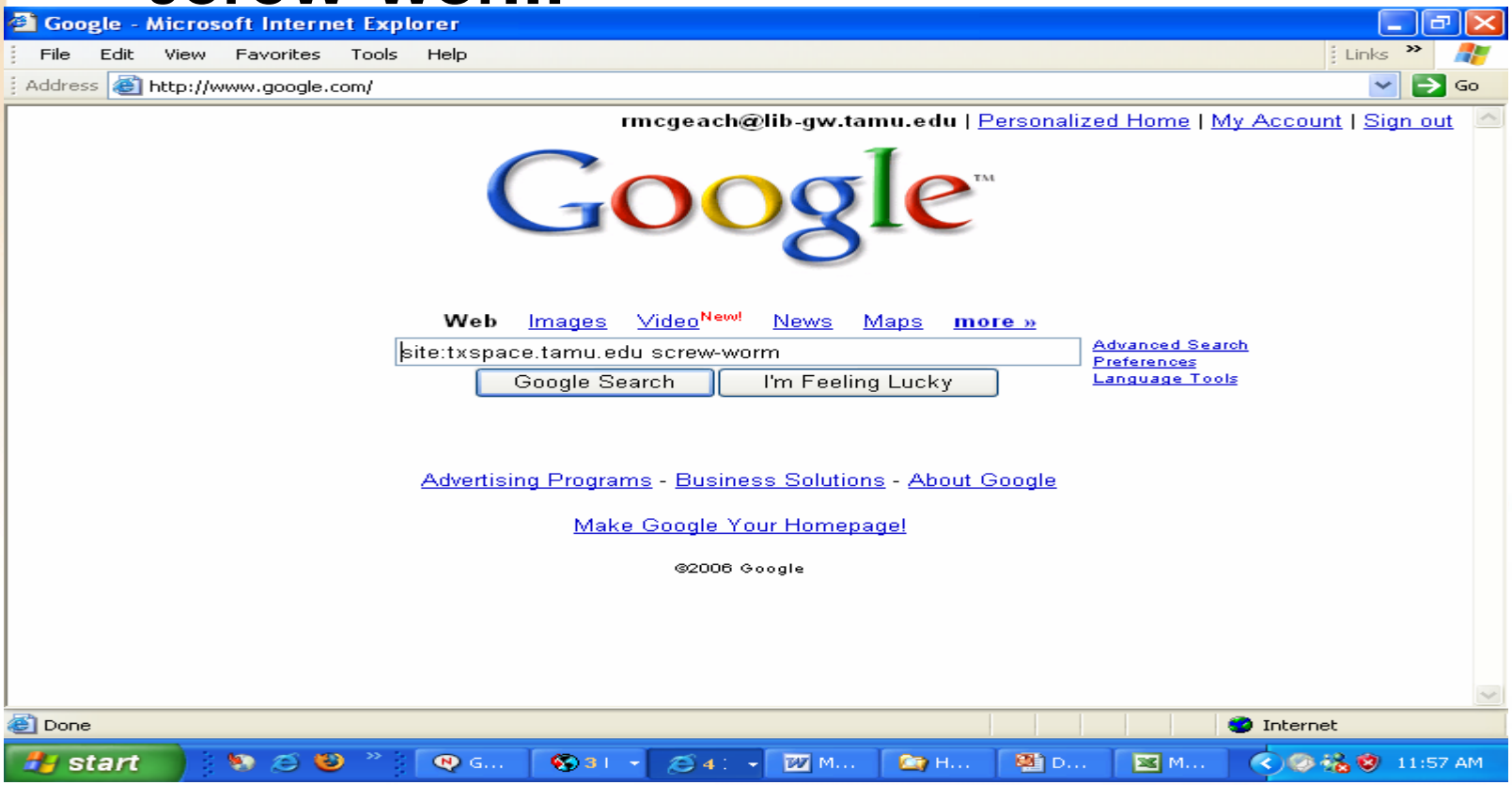

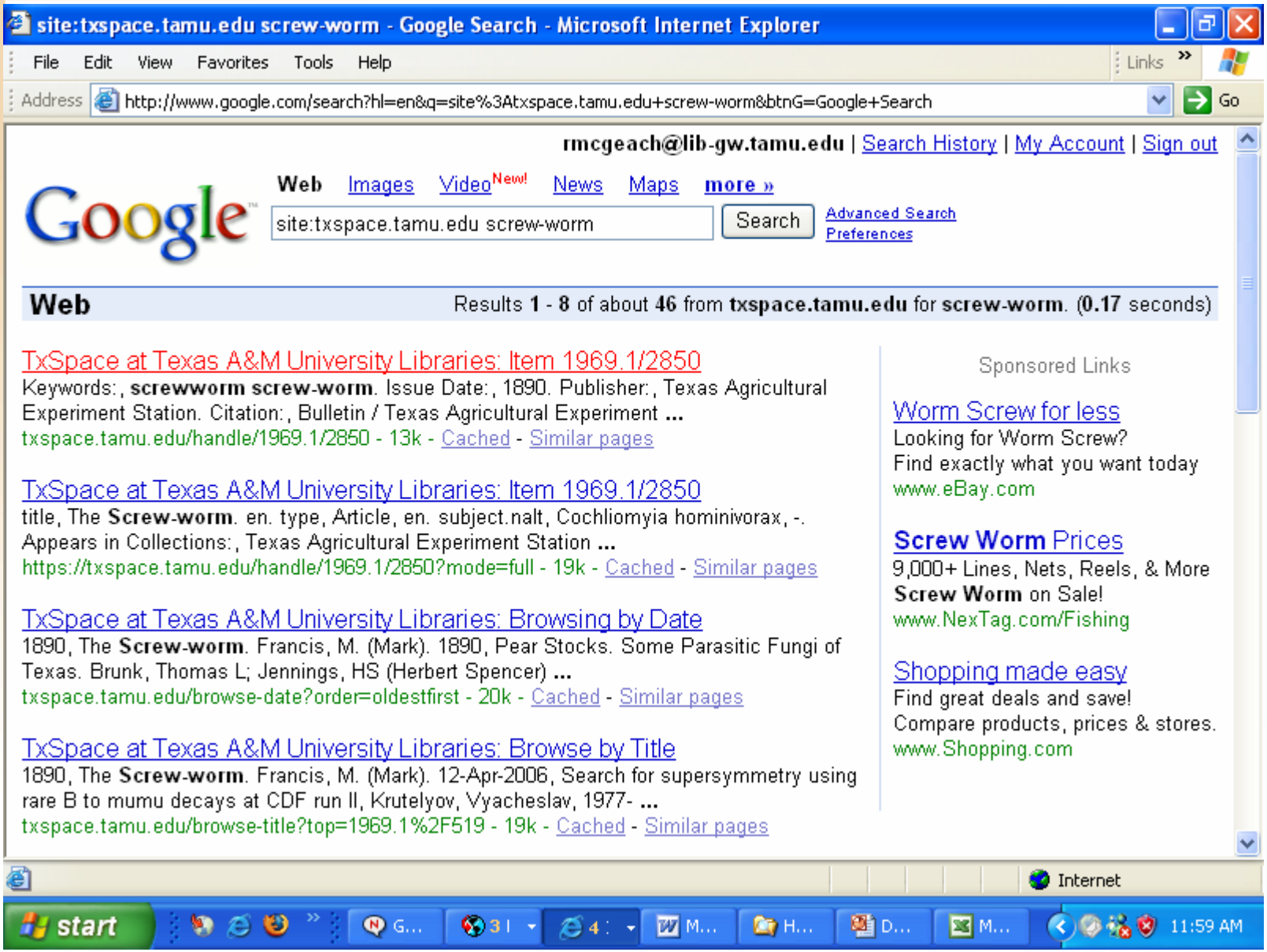
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This is a work in progress!

Any Questions?