August “Gus” Hormay Papers

Gus Hormay’s online “pencil and paper”
Overview

✓ Who I Am
  Bonnie McCallum
  Montana State University Libraries
  Digital Access & Web Services (DAWS)
  bonnie.mccallum@montana.edu

✓ About Gus Hormay

✓ MSU Libraries Hormay Collection

✓ Status Report Hormay Online Database Project

✓ Q & A
August “Gus” Hormay

✓ Gus Hormay (1907-1999)
✓ Graduate UC-Berkeley in Ecology
✓ Appointed Bidwell Fellow of Forestry 1930 - 1931
✓ Worked 1931-1966 Pacific Southwest Forest & Range Experiment Station in Berkeley
  → Developed and promoted ‘rest-rotation’ theory & applications
  → Research in Modoc, Lassen and Plumas National Forests

Gus Hormay, 1990
August “Gus” Hormay

✓ 1942-1979 Bitterbrush (*Purshia tridentata*) experiments
✓ 1966-1977 Bureau of Land Management
  → Taught ‘rest-rotation’ theory and practices
  → Extensive research and outreach training in Intermountain and Trans-Mississippi West grazing allotments and rangelands
✓ 1977-1980’s Consultant

Gus Hormay, 1937
Hormay Personal Papers

- Acquired 2003
  - Gift of Hormay Estate
- Covers Hormay’s life and career
  - 43 linear feet of individual pages
- Digitized 2004
  - 7979 digital objects
    - An object can contain 1-150 pages
- MSU Library Special Collections
  - Kim Scott, Archivist-Librarian
    - kascott@montana.edu
Hormay Digital Collection

http://www.lib.montana.edu/collect/spcoll/findaid/2451/

✓ Hormay Online Collection

✓ Two Phases
  → Phase 1 Scanned Objects
    ▪ 2004 ‘Finding Aid’ Accessible
  → Phase 2 Searchable DB
    ▪ 2010 Web Accessible DB

✓ Phase 2 Design Approach
  → Searchable DB with full document retrieval
  → Browse points
  → Google Maps Beta Project

Respite from field research, 1977
Phase 2 Project Approach

✓ Database records

→ ≈ 8,000 total digital objects
  - ≈ 4,000 document records
  - ≈ 4,000 photo records
  - ≈ 1,000 photos have no titles or identifying information

→ Adding metadata to records ongoing process

→ Using semi-controlled metadata vocabulary
  - Nomenclature
    - “Who, What, Where, When”
    - SEO keywords
    - Summary, Dates, Notes (especially regarding maps)
Hormay Phase 2 Project

✓ Metadata build process

→ Summary of content in each PDF object

→ Where to start

- Research, Allotments
- Verify object record info
- Identify records with Township/Range or other maps
- Identify unique info within pdf object
  - lawsuit, wilderness area, etc.

Gus Hormay, 1973
Phase 2 Project Approach

✓ Cross-links to other documents:
  - Same collection category (series number) with associated subcategories (box number)
  - Same digital record objects (research, allotment, correspondence, etc.)

✓ Beta Mapping Project (Phase 3)
  → Design cross-linking to objects with same “place”

✓ Phase 3 Google Maps
  → Capture & Translate T & R into Lat/Lon mapping
    - Google Maps runs on Lat/Lon
Hormay Project Phase 2 Status

http://arc.lib.montana.edu/hormay-2451/

✓ Project Status

→ Web application built and published w/≈7,000 records
  ▪ ≈ 700+ have full metadata
  ▪ ≈ 6,300 have partial metadata

→ Beta Mapping Sample Done
  ▪ Phase 3 Action Items:
    - Identify records with T-R-S and translate into lat/lon
    - Build SME base

Blacks Mountain Experiment Station, 1964
Invitation to Participate
http://arc.lib.montana.edu/hormay-2451/

✓ Subject Matter Experts
✓ First-person Experience
  ➔ Fill-in the blanks
✓ Range Science Historians
✓ Mapping Gurus

Contact us:
jaclark@montana.edu
bonnie.mccallum@montana.edu

Harvey Valley Tour, 1955
Explore Gus Hormay’s “pencil and paper” collection at:

http://arc.lib.montana.edu/hormay-2451
Rangeland Science Information System (RSIS)

“RSIS” the search engine for Range Professionals
Overview

✓ Who I Am
  Jason Clark
  Montana State University Libraries
  Head of Digital Access & Web Services
  jaclark@montana.edu

✓ About RSIS Phase 2 Project

✓ RSIS Functional Design

✓ Status RSIS Online Database Project

✓ Discussion
Explore Range Science Information System (RSIS) at:
http://arc.lib.montana.edu/range-science/
RSIS Back-story

✓ Phase 1

Range Science Bibliography

→ May, 2009

- MSU’s Carl Wambolt & Merrita Fraker-Marble
- EndNote proprietary CD
  - 1,381 records
- **Sponsors:** Undaunted Stewardship, MSU College of Ag, and Dept. Animal & Range Science
- **Partners:** MT Stock grower's Association, MT BLM Office

*Gus Hormay with Carl Wambolt, Mike Frisina, Bob Brannon, Gary Hammond, and Jack D. Jones at Fleecer Game Range, 1991*
RSIS Online Citation Database

✔ RSIS Phase 2 Project

→ May 2010

- Karen Launchbaugh, U-Idaho
  and Merrita Fraker-Marble, MSU
- Expand existing RSIS application
  to include ...
  - Enriched metadata
  - Article-level linking

Photo credit: wetlandslegacy.org
Grazing sheep and cattle together or separately: Effect on soils and plants

Title: Grazing sheep and cattle together or separately: Effect on soils and plants
Authors: Abaye, A.O. and Allen, V.G. and Fontenot, J.P.
Date: 1997
Journal: Agronomy Journal
Volume: 89
Pages: 380-386
Vegetation Type / Area of Influence: Unknown
Summary of Methods: In this 3 year study, grazing sheep and cattle together tended to reduce the impacts of grazing on vegetation and soils, when compared to grazing either herbivore alone. Mixed species pastures had less forbs and more grass species, higher soil nutrient content and soil pH, and lower B-horizontal soil bulk density than pastures grazed by sheep or cattle alone. Grazing sheep alone tended to increase the P content and bulk density of the soils, while reducing the amount of white clover in the pastures. Grazing cattle alone tended to reduce the amount of bluegrass and increase the amount of thistle and horsetail in the pasture. Grazing the two species together may benefit the soil and vegetative characteristics of pastures. However, pasture size and vegetation should be used to select compatible stocking rates and herbivore species prior to implementing this system.
Article Summary / Main Points: None
Agroec Control Words: Riparian zones Rangelands Wildlife
Article Review Type: None
Article Type: None
Keywords: bos taurus, ovis aries, multi-species grazing, soil compaction, botanical composition, selective grazing
Annotation: Stocking rate based on 5 ewes = 1 mature beef cow. Stocking rate was 0.44 ha / 1 cow-calf pair or 5 ewe-lamb group.

This screenshot’s online location:
http://arc.lib.montana.edu/range-science/item/id/4
A Curated Collection

✓ Vetted
✓ Selected
✓ Annotated

By Domain Experts
(Range Science Professionals)
Next Steps?

✓ Continuation of Phase 2
✓ New Partners, Contributors
✓ Participating in Larger Efforts
  → Rangelands West
Discussion

✓ Where do we need to be found?
✓ What are useful browse/search points?
✓ Any other ideas or thoughts?
This presentation’s online location:
www.lib.montana.edu/~jason/talks.php