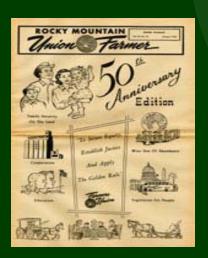
## CREATING DIGITAL COLLECTIONS







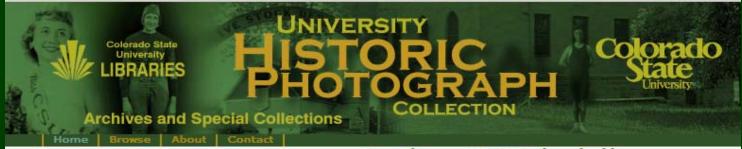




## Members of the Digital Project Management Plan Working Group

- Nancy Hunter (MPS)
- Shu Liu (Digital Repositories)
- Vicky Lopez-Terrill (Archives/Special Collections)
- Debbie McClelland (MPS)
- Beth Oehlerts, Chair (MPS)
- Ann Schwalm (MPS)
- Yongli Zhou (Digital Repositories)
- Lynn Jickling (MPS) Ad hoc member

#### **Identify Collections**



#### The University Historic Photograph Collection

Looking for photographs for research? A walk down memory lane? A presentation for class?



#### Search over 13,000 Historical images

Type search keywords

Search







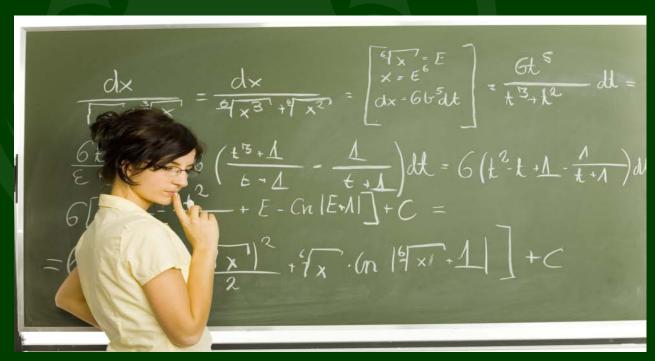


The University Historic
Photograph Collection
(UHPC) tells the story of
Colorado State University
and its students and faculty
from the 1880s to the
present.

Photographs in the collection that have not been digitized are available to researchers.

#### Project Development

Define your goals and identify resources and funding



### Project Planning

Planning will save you time and money!



Collaborate and communicate

Create project documentation

Identify staffing and equipment needs

### Project Planning also Includes

Identifying equipment and server storage needs

Determining digital image preservation strategies



#### Creating Digital Collections

Archives – It's All About Access



## Preserving Archival Materials in Digital Format

- The purpose of maintaining archival collections is to care intellectually and physically for materials and to make collections available to the public.
- Digitizing materials offers access. Items become available from any distance. Digitization is especially pertinent to archival collections.
- Digitizing enables the preservation of the original negatives, slides, archival masters while providing access – it's all about the access.

## Ad Hoc Requests: University Historic Photograph Collection

 Approximately 500,000 images detail Colorado State University's history with particular attention to academics, students and faculty, and the physical campus landscape.

 The Archives and Special Collections Department receives digitization requests

for as many as 180 images for one project or as few as one for another.

#### Ad Hoc Requests: The Process

#### Patrons are:

- Students
- Faculty Members
- Academic Departments
- Amateur Genealogists
- Museums
- Other Academic Institutions
- Researchers
- Just about Anybody

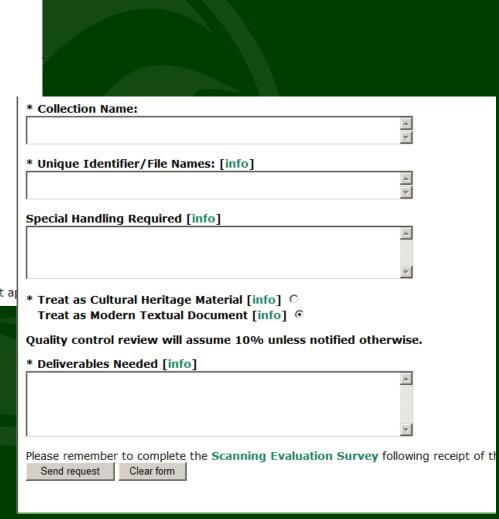
Patrons find images they would like digitized and request them from Archives and Special Collections. An online form is submitted by a staff member to the digital team. The form maintains consistency of information in requests.

#### **Request for Digital Scanning**

\* required information

NOTE: IE does not handle some special characters right now. Please use Firefo request until we fix the problem.

request until we fix the problem.
Please select one option below
Ad Hoc Project: ⊙
Institutional Repositories Project: O
Planned/Funded Projects: O
* Project Name:
* Your Email:
* Requestor:
* Number and Type of Items to be Scanned: [info]
* Date Due: (Must be in mm/dd/yyyy format)
* Collection Code: (see Archive Collection Codes) (Must be 4 characters long, e.g. AACS, MCAK, or NONE if unknown or does no



#### Interesting Ad Hocs

Bicycle Fort Collins (1924)



Fort Collins Water Works Pump House (1904)



#### More Interesting Ad Hocs

John Hirn Request: 180 items



#### Aggies to Rams

THE HISTORY OF FOOTBALL
AT COLORADO STATE UNIVERSITY



JOHN HIRN

FOREWORD BY STEVE FAIRCHILD

## Archives – Access and Feedback

- New Goal
  - Record feedback!
  - Feedback, however, has always been positive.
     Appreciation is the most common response to our service.

#### Access

 Digitization of material offers a much wider access to our collections than would be possible otherwise. Access is a predominant goal and we are achieving it, thanks to the digital team. PRELIMINARY

MAP

#### Preservation Lab

Condition Assessment of Print Materials



**Conservation Treatments** 

#### **Preservation Lab Goals**

## Support the scanning staff in creating the best possible scans

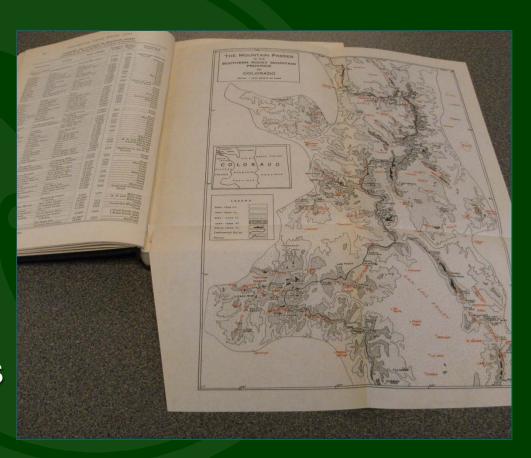
- Provide condition details and documentation to facilitate pre-planning for equipment and staffing requirements
- Provide ongoing interface with the scanning staff throughout the process

#### Eliminate damage to the piece

- Provide conservation treatments when appropriate
- Create protective "props" for scanning staff

### **Material Types**

- Bound Volumes
- Maps
- Loose Pages
- Scrapbooks
- Oversize Materials



Map foldout

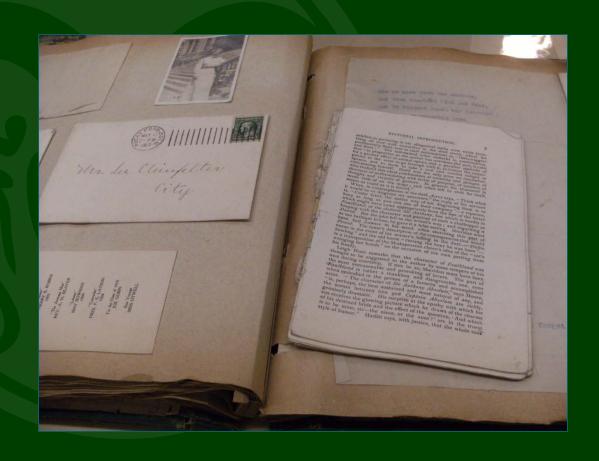
#### **Bound Volumes**

- General Collection
- Archival Collection
- OutsideDepartments



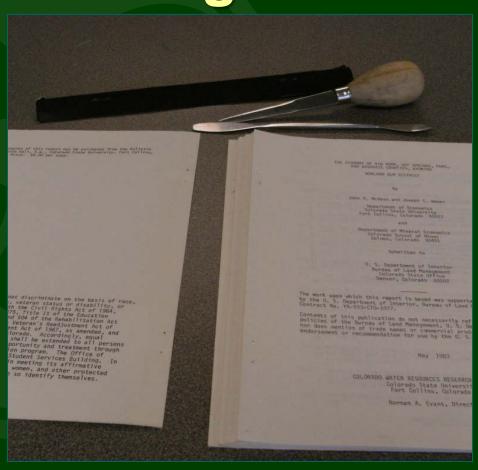
### Scrapbooks

- Text
- Foldouts
- Photographs
- Artifacts
- Pamphlets



## Conservation Treatments Pre-Scanning

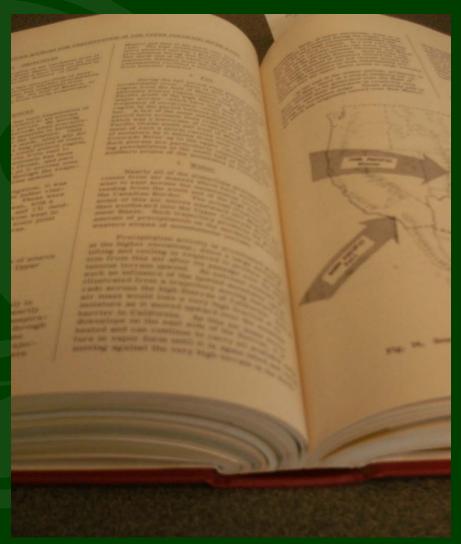
- Disbind
- Repairs
- Detachable Materials
  - Maps
  - Pamphlets



Remove staples to disbind volume

#### Disbind

- Volume opens less than 90°
- Gutter margin less than ½ inch
- Sewn through text remove sewing
- Volume is removed from binding and spine is cut



Large, bound volume with small gutter margin

## Western Livestock Journal

Disbind in process

Extremely fragile newsprint





### Western Livestock Journal

**Scanning props** 

**Zeutschel at work** 

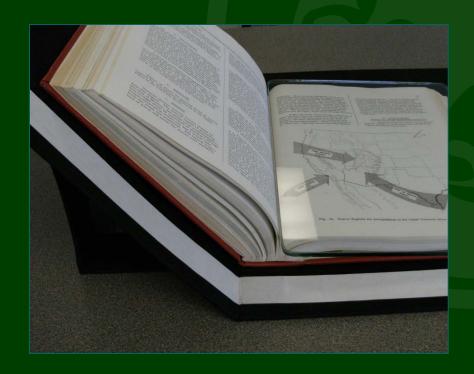


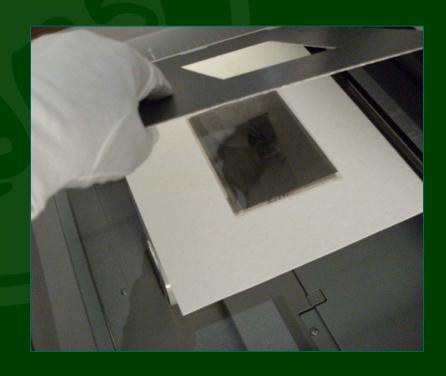


### **More Props**

**Book Cradle with** glass plate

Scan Frame for nonstandard size negatives

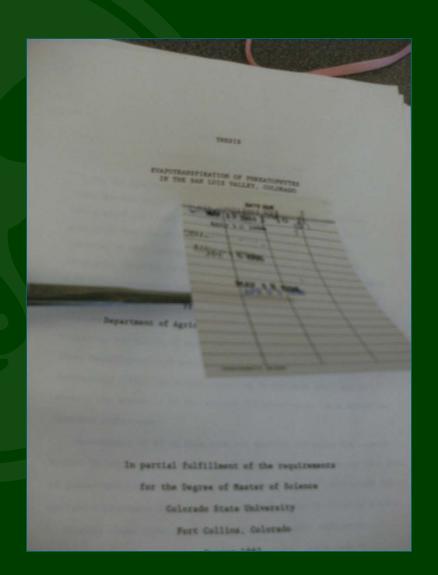




#### Repairs

## Non-Archival Materials Common Treatments

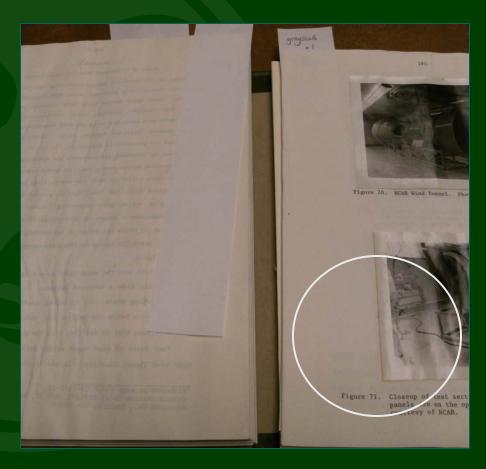
- Remove Staples
- Mend tears
- Erase underlining and marginalia.
- Separate uncut pages
- Remove Date Due slip
- Disbind



#### **Other Conservation Conditions**

## Scanning staff adjusts for some conditions

- Wavy , cockled pages
- Volume opens less than 90°
- Gutter margin less than ½ inch



Moisture damaged volume - cockled pages

#### Scan "as-is" Conditions

- Duplicate pages
- Pages out of order
- Text runs off the page
- Stained/discolored pages
- Text bleed through

- Text skewed
- Obscured/missing text
- Brittle paper
- Missing pages
- Light/unreadable text

#### **Post-scanning Treatments**

#### **Re-house materials**

- Folders
- Phase boxes enclosures
- Send to the bindery

#### Repairs

- Map/foldout repairs
- Page tears
- Re-staple materials



Archival re-housing for fragile pamphlet type materials.

### Preservation Lab Mission

Condition assessment of print materials for our expanding digital projects to widen patron access globally

Conservation treatment of the libraries print collection to ensure continued patron access

Preservation = Access

## The Wonderful World of Scanning





#### Scanning Locations & Equipment

#### Morgan Library, Room 208—Staff scanning

- Zeutschel overhead scanner
- Epson negative scanner
- 2 Epson flatbed scanners

#### The Archives Annex—Student scanning

- 2 Epson flatbed scanners
- 2 Microtek glass plate negative scanners

## Student Scanning Schedule

	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
7:00	WYATT					WYATT				WYATT	7:00
7:30	7:00-9:45					7:00-9:45				7:00-9:45	7:30
8:00			JOHN	GERARDO	BRANDON		JOHN	GERARDO			8:00
8:30			8:00-12:00	8:00-1:00	8:00-8:45		8:00-12:00	8:00-1:00			8:30
9:00					JOHN						9:00
9:30					9:00-11:00						9:30
10:00											10:00
10:30											10:30
11:00	KAYTIA	JULIE			KAYTIA	JULIE				JULIE	11:00
11:30	11:00-12:00	11:00-2:00			11:00-12:00	11:00-1:00				11:00-1:00	11:30
12 NOON	BRANDON		KAYTIA		BRANDON		KAYTIA		BRANDON		12 NOON
12:30	12:00-1:00		12:00-1:30		12:00-3:15		12:00-1:00		12:00-3:00		12:30
1:00	JANICE			JANICE		JANICE		JULIE		JANICE	1:00
1:30	1:00-4:00			1:00-4:00		1:00-2:00		1:00-4:00		1:00-2:00	1:30
2:00		KAYTIA	BRANDON	į		KAYTIA	JANICE			KAYTIA	2:00
2:30		2:00-4:00	2:00-4:00			2:00-3:30	2:00-4:00			2:00-4:00	2:30
3:00									WYATT		3:00
3:30									3:00-4:00		3:30
4:00											4:00
4:30											4:30
5:00											5:00

#### **Planned Projects**

## University Historical Photograph Collection Glass Plate Negatives

9 months scanning 5,500 plates at 1200 ppi

#### **Silver Nitrate Prints**

7 months scanning 7,500 prints at 1200 ppi

#### **AEXT (Agricultural Extension) County Reports**

4 months scanning 10 county reports totaling 1,400 pages

# Challenges Encountered Scanning Glass Plate Negatives

- Newton's Rings on the image
- Colored streaks across the image
- Frequent equipment failure
- Difficulty creating good images from very overor under-exposed plates
- Huge file sizes = a significant amount of server and disk space
- Learning curve is different for every person
  - Individualized training

## Quality Control of Images

- Apply a10-30-100% rule
- Time-intensive endeavor



#### Newton's Rings

1921 Aggie Football Player on the practice field on the northwest corner of College and Lake Streets (which is now a parking lot)



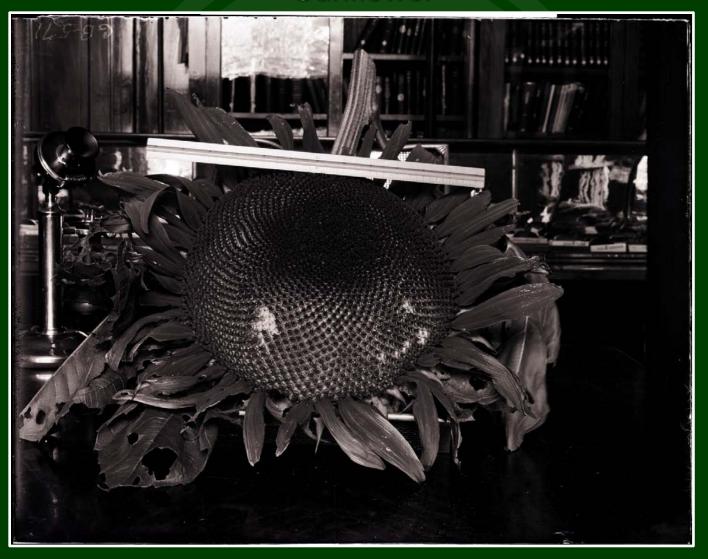
### Overexposed Glass Plate Negative

Greenhouse flowers



## Underexposed Glass Plate Negative

Sunflower



## Broken Glass Plate Negative

George Warren Deming, Agronomy faculty, 1930





# Glass Plate Negative

Harry Hughes, Football Coach circa 1915





# Magic Lantern



### Lantern Slide

Civil Engineering class surveying crew on one of their yearly field trips to what is now Rocky Mountain National Park, circa 1900



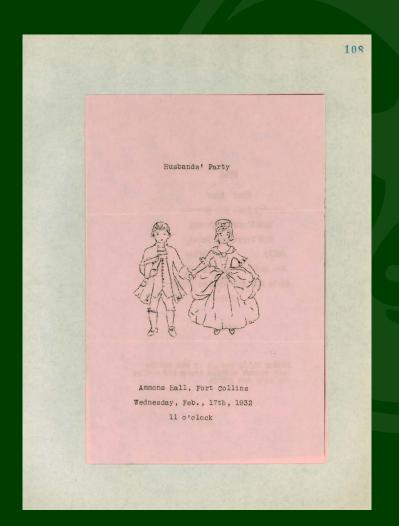
### Lantern Slide

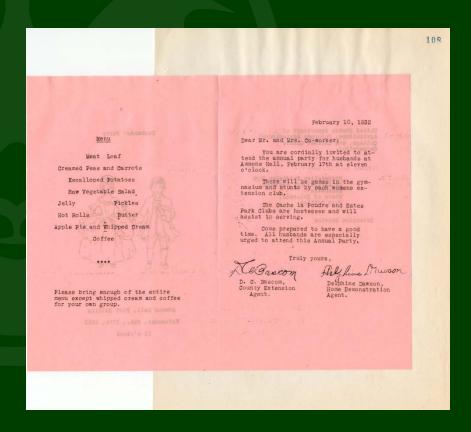
Music Conservatory and Home Economics, circa 1905. This building is still standing and is located on the southwest corner of Laurel and College.



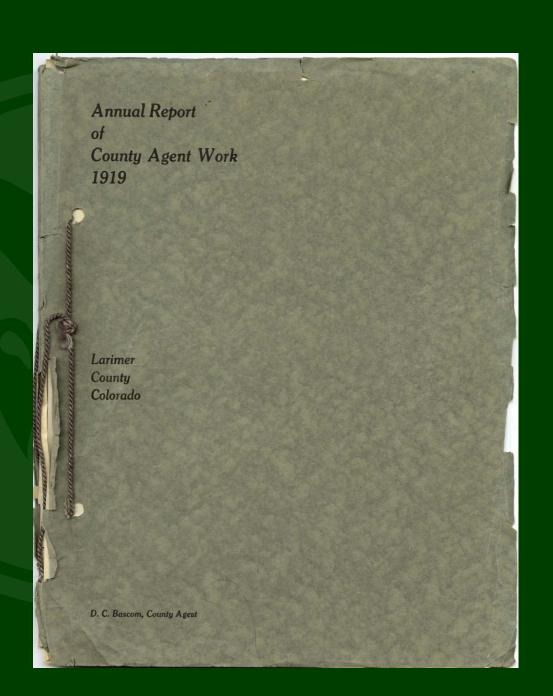


# AEXT Pamphlet from the 1936 Larimer County Report





AEXT 1919
Larimer County
Report cover
before
disbinding



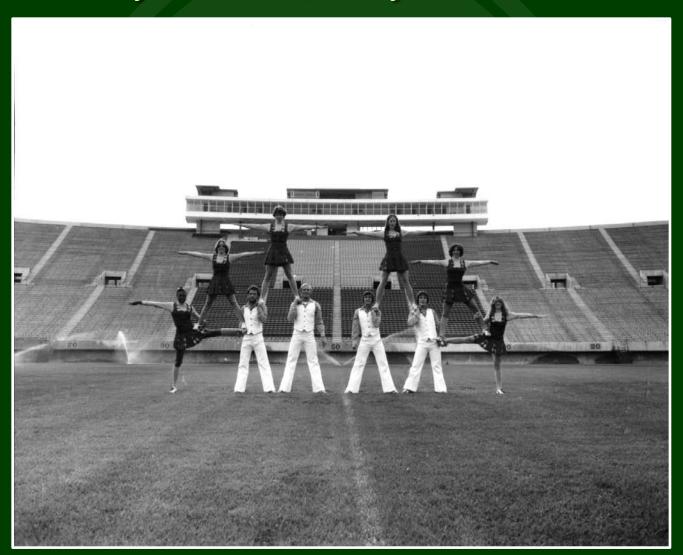
# Ad Hoc Project: The Sonny Lubick Steakhouse

**Circa 1969** 





# Cheerleaders ca 1975 "Stayin' Alive, Stayin' Alive..."



# All of these photographs are on exhibit in the Ladies' Room of the Sonny Lubick Steakhouse

Circa 1965





### Scanning Demonstration

Morgan Library, Rm 208, Wednesday, May 20th, 10:00 a.m.



## **Digitization Data**

Collecting Information for Successful Management

# Collecting and Analyzing Digitization Data

- Why collect data?
- What information is needed?
- Who collects the data?
- How often should data be gathered?
- What can be gained?

### Why collect data?

- For management and decision-making
- To track expenditures
  - For grants and general accounting
  - For assessing costs, staffing, and equipment needs
- To track progress, evaluate, and analyze
  - Large and small projects
  - Short-term and long-term goals
- To plan for future successes
  - Reviewing results

### What information is needed?

- For scanning requests
  - Who is requesting digitization?
  - What do they need and when do they need it?
- To assess resources: staff, equipment, time
  - Who has the experience and who is available?
  - What scanning equipment is available?
  - How long will it take?

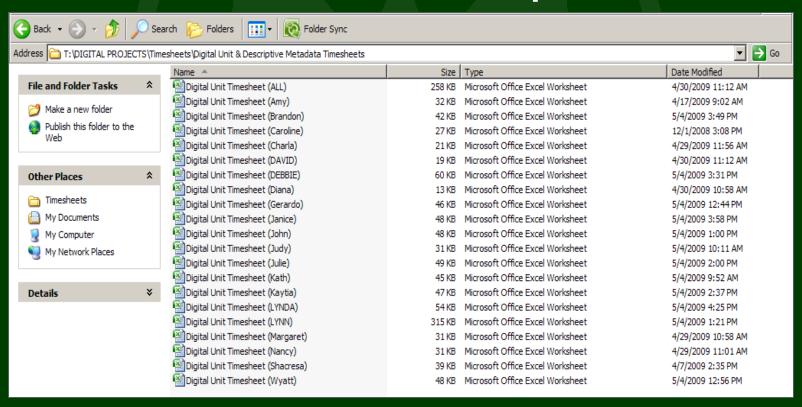
### What information is needed?

### For scanning requests

	А	В	С	D	Е	F	G	Н	I	J	К	L	M	
1	http://lib.colostate	e.edu/staffwiki/i	ndex.php?title=Archives	Collection Co.	des									
								Coll.					Treat	
2	Date Submitted	Project Type	Project Name	Email	Requestor		Date Due	Code	Collection Name	Unique Identifier	Deliverables	Special Handling Required	As	Comments
			<b>.</b>			18- 4x5 inch black and			University		File size/resolution varies according to			
			Electrical Engineering -			white negatives; 1- 4x5 inch			Historical	Please see spreadsheet for	negative size. Please see			
156		Ad Hoc	100th Anniversary			color negative; 4- 2 1/2 inch	5440000		Photograph	identifiers and materials	spreadsheet. All files need to be			
156	4/3/2009 11:06	Project	Request	ate.edu	Terrill	black and white negatives 1- 4x5 inch black and white	5/4/2009	UHPC	Collection	description.	JPEG, please put on a CD(s).		artifact	
						negative: 1- 4x5 inch color								
						negative; 8- 2 1/2 inch					File size/resolution varies according to			
			Electrical Engineering	kathleen.legg		black and white negatives:			University Historic		negative size. Please see			
	l .	Ad Hoc	100th Anniversary-	@colostate.e		2- 35mm black and white			Photograph		spreadsheet. All files need to be			
157	4/7/2009 9:27		Images Added 4-7			negatives	5/11/2009	UHPC		Please see spreadsheet	JPEG, please put on a CD(s).		artifact	
				_		15 items with 19 images								
	l .					[which includes] 16 images								
						of paper documents, 3				ACFA0001 - ACFA 0019				
				victoria.lopez-		images of photographs (2			Records of the	(Linda says that you can				
		Ad Hoc	Colorado Forestry	_		photos - one photo to be				name them in the order they		Please scan in the order they appear		
158	4/13/2009 15:02	Project	Association	ate.edu	Terrill	scanned front and back)	4/17/2009	ACFA	Association	are situated.)	600 dpi jpegs. store on squid.	in the folder.	artifact	
				: - 4 1						Please name as completed in order from AJNA0001-				
		Ad Hoc	John Albright Mational	victoria.lopez-					Danara of John N		Please save as tif and 600 dpi jpegs.	Handling is written on papers for		
150	4/17/2009 10:45		John Albright - National Park Service Project			17 images, all text	4/23/2009	A INIA		instruction.	accessible on Squid.	Handling is written on papers for pages.	artifact	
133	4/11/2005 10.45	riojeci	raik Service Project	diana.wess	ICIIII	17 illiages, all text	4/23/2005	AJIVA	Bailey Collection of	IIISU UCUOII.	accessible off Squiu.	pages.	artifact	
		Planned/Fund		@colostate.e					19th Century			Rare books : Handle gently/Clean		
160	4/23/2009 10:02	ed Projects	Bailey	du		13 Plate illustrations	########	SPEC		See Spreadsheet	TIFF images	hands ; some plates are folded	artifact	
		,								UPHO_PR01 Aylesworth:	<b>3</b>			
	l .									UPHO_PR03 Edwards;				
										UPHO_PR04 Ellis;				
										UPHO_PR05a Ingersoll;				
				victoria.lopez-						UPHO_PR06 Lory;	600 dpi jpegs on a cd. Thank you			
		Ad Hoc	0 0	terrill@colost			51410000	uune		UPHO_PR06a Lory;	very much and I apologize for the	Crop text on photographs.		
161	4/30/2009 12:59	Project	College Presidents	ate.edu	Terrill	7 photographs 1 item, in IR [In Squid at	5/1/2009	UHPO	Photographs	UPHO_PR08 Morgan	rush.	Photographs only, no borders.	artifact	
	l .					PLANNED PROJECTS/UHPC					1200 dpi jpeg (for poster) 600 dpi			
				victoria.lopez-		Glass Plate			University Historic		jpeg (if easier to open for smaller			
		Ad Hoc				Negatives/Images/Box 29			Photograph		image) [Deliver an image for each dpi			
162	5/4/2009 11:05		Bicycle Fort Collins			LynnDebbie 5/4/091	5/8/2009	UHPC	Collection	UHPC 4197, Box 29	on CDDebbie 5/4/091		artifact	
	↔ → Scannir		Scanning Requests I		Ad Hoc Subie						ENGINEERING 100TH 4			
Rei		.g .tcquc2t3		,	rioc babje	- LECTION LECTION		y	, , , , , , , , , , , , , , , , , , ,		410 40011	₩ 🗆 😃 80%		<b>U</b> +
INC	, and											1 - 00%	0	V .

### Who collects the data?

- Share the responsibility!
  - Individuals record their own data
  - A few collect and build for reports

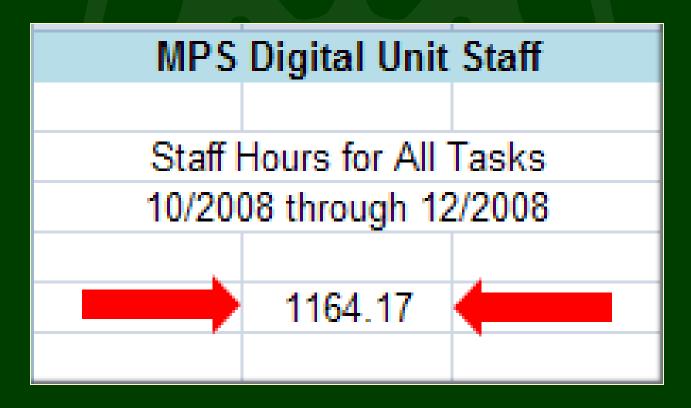


# How often should data be gathered?

- Build the data for the big picture
  - Monthly
  - Quarterly
  - Yearly
  - On request
- Structure in small increments
  - Record daily
- Design for flexibility

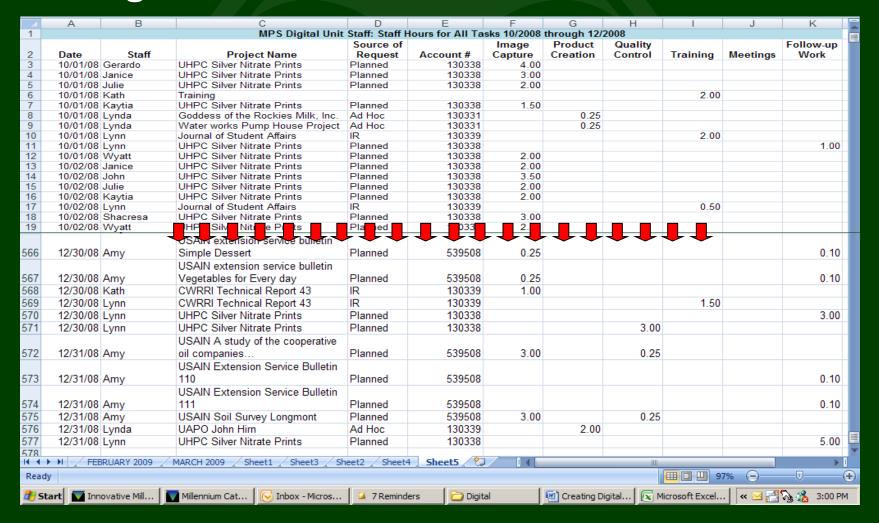
# How often should data be gathered?

A quarterly snapshot



## How often should data be gathered?

### **Building from small increments**



## What can be gained?

- Accurate information for
  - Accounting
  - Cost analysis
  - Planning
  - Future successes



### Metadata



### International Poster Collection



search posters

Go

Home Browse Search Learn About Resources Contact



Uwe Loesch: Vogelfrei Loesch, Uwe, 1943-Germany 2003-104

### Welcome

The International Poster Collection holds poster entries from the Colorado International Invitational Poster Exhibition (CIIPE). It was created through the collaboration of the Colorado State University Libraries and the Department of Art and is part of Archives and Special Collections.

This Web site displays posters from around the world, featuring:

- a searchable database of posters from the 7th to 15th shows (1991-2007)
- an artist database of biographical information

### What's New

October 2, 2009 - Opening of the 16th Colorado International Invitational Poster Exhibition. The show will be on Colorado State University's campus through December 22.

### he Warren and Genevieve Garst Photographic Collection



search

🖸 Animals 🔘 Website 😘



### About Animals

haracteristics: iet labitat ndangered Species tories

### ind Animals

v Common Name y Scientific Name v Continent earch lelp

### Background

bout the Collection leet the Garsts cknowledgements elated Sites Contributions



at Colorado State University Libraries





**Find Animals** 



Background

Welcome to the Warren and Genevieve Garst Photographic Collection. Take a wildlife photo safari in this digital collection of animal photographs and information.

This site contains over 1300 digitized wildlife slides from a collection donated to Colorado State University Libraries by Warren and Genevieve (Genny) Garst. The slides were photographed over a period of 25 years as the Garsts traveled to Asia, Europe, Australia, Africa, North America and South America while filming for Mutual of Omaha's Wild Kingdom® television series.

Many of the photos are unique and not found in other collections. More than 600 animal species are represented, including mammals, reptiles, birds, insects and aquatic animals.

All images of this site are protected under copyright.

Zoolexicon

Content: Vicky Lopez-Terrill • Copyright © 2000-2005 CSU, CSURF • Site Map • Contact Us URL: http://lib.colostate.edu/wildlife/index.html • Last updated: 10/02/2008 CSU > Libraries > Archives > Digital Collections > Garst Wildlife Photographic Collection > Home Translate • Disclaimer • Copyright • Equal Opportunity • Privacy • Search CSU • CSU Home



### he Sidney Heitman Collection RUSSIA Collection



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Sear Colle

at Colorado State University Libraries

### **Dot Carpenter**

The Woman Behind the Man



An exhibit created by the Water Resources Archive, Colorado State University Libraries

Family

Daughter

Sister

Classmate

Mother Wife

More Information

Digital Objects

Advanced

and cons

Enter one The Colorado's

Results o pages of require A free from

accompanying informing preser Archive will rela Coloradoans to diaries, photogr

the history of Co

Current selection

feature studies

or transc This digital colle and other collect Colorado State through the We



### Introduction

It is said that behind every great man is a great woman. Delph Carpenter, "Father of Interstate River Compacts," found greatness through working tirelessly-even when increasingly ill-ably aided by his wife, Dot.

Born Ann Michaela Hogarty in 1878 to Union Colony pioneers, the woman later known as "Dot" married Carpenter in 1901. She spent much of the next fifty years assisting her husband, giving him love, support and basic care as his disabilities intensified. Dot's contributions in this and in his professional work were vital to Delph's accomplishments.

Dot's roles as daughter and sister prepared her to be Delph's wife and the mother of his children. In this virtual exhibit, Dot Carpenter's life is examined through people who influenced her in these roles. Among other achievements, Dot's legacy is reflected in the western water law contributions made by her husband and son, who were so affected by her faithful, supportive, cheerful nature.

Michaela "Dot" Carpenter This exhibit features items from the Papers of Delph E. Carpenter and Family. Click on a thumbnail image on any page for a larger version with more information in a new window.





### CONTENTdm

- Silos
- Project-based
- Different implementers
- Different metadata



# Project Specific Metadata

Title: 2003 Keimyung Graphic Design Exhibition

**Poster No.:** 2005-055

Artist: Hong, Sungil

Artist Information: For artist information, go to (will open new

http://lib.colostate.edu/posters/results-art

Country: South Korea

Language: English, Korean

Description: Desi... 2003 Keimyung Graphic Design Exhib

Image: "I" in different colors and black splotches

Date: 2003

Prepress Media: Line art

Printing Process: Digital prints

Subject: Graphic arts--Exhibitions; Posters--Korean

Purpose: Exhibition poster

Award:

CSU Exhibition Year: Exhibited 2005

Exhibition: Colorado International Invitational Poster E:

Colo.)

Reference: Fourteenth Colorado International Invitation

of Art, Colorado State University, 2005.

Dimensions: 84 x 59 cm.

Condition: acid free; acid-free label; label taped on ba

Rights: http://lib.colostate.edu/posters/copyright.h

Publisher: Colorado State University Libraries

Publisher Place: Fort Collins, Colo.

Date Available: 20050919

Title: Mexican wolf sniffing ground

Identifier: G10520
Kingdom: Animalia
Phylum: Chordata
Class: Mammalia
Order: Carnivora
Family: Canidae
Genus: C10520

Mammalia
Carnivora
Carnivora
Canidae
Canis

Genus Species: Canis lupus baileyi

Common Name: Mexican wolf

Subject: Mexican wolf; Canis; Canidae; Carnivora; Mammals; Verte

animals

Physical

Characterics:

Head-Body 137-167 cm

Length:

Height: 66-81 cm Weight: 23-41 kg

Identification: The Mexican wolf's coat varies from gray to rusty brown.

Geographic

aphic Southern North America

Range:

Habitat: Mountain woodlands

Diet: Carnivore: deer, elk, pronghorn, javelina, rabbits, small ma

Reproduction: Breeding season is from February to March. Gestation las

born afterwards.

Social Like all wolves, this subspecies lives in packs with 4-6 me

Structure: breeding pair that remains together for life.

Behavior: unavailable

# DigiTool

- One set of metadata display and indexing rules
- Multiple simultaneous projects
- Aggressive growth
- Development of an institutional repository

# Metadata Best Practices Task Force

- Multiple departments
  - Metadata and Preservation Services (Nancy Hunter)
  - Digital Repositories (Shu Liu)
  - Archives and Special Collections (Patty Rettig)
  - College Liaisons (Allison Level)

### 更

## **CSU Core Data Dictionary**

- Based on Dublin Core
- Defined:
  - Mandatory, Mandatory if Applicable, Recommended, Optional
  - Repeatability
  - Valid schema
  - Best practices for data entry
- Basis for data dictionaries to follow

# Project-Specific Data Dictionary

- •Consultations among:
  - Project Manager
  - Digital Repositories
  - Digital Unit
  - Metadata Librarian
- Determine
  - •How should the collection be organized in IR?
  - •Does metadata exist elsewhere?
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POF

Authors Barmore, Mark A. (Mark Alfred), 1905-

Title Baking angel food cake at any altitude / by Mark A. Barmore.

Subjects Cake--Colorado.

**Description** Cover title.

Publisher Colorado Agricultural College, Colorado Experiment Station,

Date 1935.

Extent 15 p. : ill., map ; 23 cm.

Series Technical bul. (Colorado Agricultural Experiment Station); 13.

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Object Moving cattle quietly out of a gate - WMV file (1 M)

Bookmarkable URL <a href="http://hdl.handle.net/10217/652">http://hdl.handle.net/10217/652</a>

Authors Grandin, Temple

Title Moving cattle quietly out of a gate

Keywords cattle; handling

Description This video clip demostrates how to move cattle out of a gate

at a controlled, steady pace.

25 seconds

Publisher Colorado State University. Libraries

Department Animal Sciences

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Object - JPEG2000 Image (3 M)

Bookmarkable URL <a href="http://hdl.handle.net/10217/21841">http://hdl.handle.net/10217/21841</a>

Authors Colorado State University

Title Ton Litter, Mr. Harris of Ft. Collins

Subjects Colorado Agricultural College. Cooperative Extension Service

Swine -- Weight -- Competitions -- Colorado

Description Eight of 12 pigs eat from a feeding trough, while 3 men watch from the

sidelines.

Publisher Colorado State University. Libraries

Date 1924-10-17

Series University Historic Photograph Collection, Archives and Special

Collections, Colorado State University; Series I: Glass Plate Negatives;

Subseries E: Extension Service. Finding aid:

"http://lib.colostate.edu/archives/findingaids/university/uhpc.html"

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### The Process

- Preparatory work
- Metadata creation
- Quality control
- Preparation for Digital Repositories

# Creating Web-Deliverable Digital Objects





# AGRICUTURAL FRONTER ELECTRONIC FRONTER

By Douglas J. Ernest

Colorado State University

A History of Colorado State University Libraries 1870-1994







# Podcasting and the Academic Library

Louise Feldmann, Amy Hoseth, and Dennis Ogg
Colorado State University Libraries
CALC Summit, June 1, 2007

Guest Refine

123

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Records 1-20 of 44

Master's Thesis



Anderson, Cody Mitchell

Gilligan's Island Site (Colo.)



Physiological strain of firefighters exposed to a live firefighting exercise

Barnes, Kyle Russell

Fire fighters — Physical training — Colorado











### Museum and school partnership for learning on field trips

Bhatia, Anuradha

Museums — Educational aspects — Colorado — Fort Collins





### Patterns of growth dominance and neighborhood effects in eucalyptus plantations and tropical

forests

Bui, Doi The

Eucalyptus - Hawaii



Thesis

Done









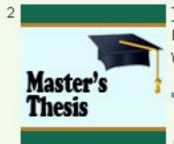
food-contact and non-contact surfaces

Callaway, Jeffrey Ryan

Listeria monocytogenes Master's







### Top-down clustering based self-organization of collaborative wireless sensor networks

Bandara, Dilum Herath M. N.

Wireless communication systems





Genetic studies of Northern Goshawks (Accipiter gentilis) : genetic tagging and individual identification from feathers, and determining phylogeography, gene flow and population history for Goshawks in North America

Bayard de Volo, Shelley

Goshawk - North America - Genetics





The implications of process metaphysics for Christian mysticism

Breeding, Marshall M.

Mysticism





Paleo-feedbacks in the hydrological and energy cycles in the community climate system model 3

Burt, Melissa Ann Last Glacial Maximum









Women consumers Ph.D.









t is both stimulating and encouraging to one who has devoted over a half a century to the conservation and development of the water resources of my home State to observe the intense interest currently being shown in the water rights system in Colorado. This is a subject that is often discussed but seldom fully understood, even by those discussing it. Having reached the stage where the finite remaining undeveloped water supply in Colorado is approaching its limit perhaps in the neighborhood of two million acre-feet, or less, in all five of the major river basins that originate in the State — it is timely and proper for our knowledgeable water people to begin thinking about constructive changes in the administration of water rights that might result in broader benefits to the people of the State from more efficient water resource manage-

This guest editorial is addressed to the fact that, in the writer's mind, there never has been, there is not today, and there never will be a status quo in the administration of water rights under the doctrine of appropriation. The old adage to the effect that we live in an GUEST EDITORIAL A Message To Colorado



ever-changing world certainly applies to the administration of the distribution of water in Colorado.

During

the 106

years since the initiation of statehood Colorado has contributed much to the success of developing the limited water resources of the semi-arid West. Not the least of these contributions was that made to the legal system of water rights known as the "Colorado doctrine" or the "doctrine of prior appropriation" which was actually originated prior to statehood in the mining camps. This principle of "first in time, first in right" in the use of waters made possible the development of water and other related natural resources of unprecedented

by Wayne N. Aspinall

magnitude in a semi-arid region. The benefits of that development have been apportioned on a broad scale to thousands of American citizens. If Colorado had followed the traditions of her forefathers in the East and adopted the riparian doctrine of water rights under which the water belongs to the land owners adjacent to the stream and must be kept undiminished in quantity and quality, a preferred class of water barons could have evolved to control the water resources - and not necessarily in the best interests of the people

of the State.
The Appropriation Doctrine was developed in an era of flux here in Colorado. When our early pioneers tried to administer water under the Riparian Doctrine, or the Civil Law Doctrine, or a combination of both, it was soon discovered that these methods of water administration used in our sister States and territories would not be workable

We too are living in an era of constantly and rapidly changing economic and social conditions. Our society will never be the same as it was during Colorado's first century as a State. The citizenry is beginning to recognize these changes. Our wiser water leaders are not immune to the influence inherent in a dynamic culture.

Notwithstanding all of its virtues the system of prior appropriation of water rights should not be regarded in a changing world as perfect in all situations, nor as being forever exempt from modification that could result in an improved system of natural resources management. This is especially true if conditions warrant a change and that change is accomplished by agreement of responsible involved parties. It should be remembered that although a water right is a property right in Colorado, that right extends only to the use of water, which, under the constitution, belongs to the State.

The author is not advocating any specific changes in Colorado's water rights system. As inferred above, in the interests of the welfare of Colorado's expanding populations demanding more and more water from a limited supply, he is merely calling the attention of the water leaders of the State to

continued on page 3



colorado ... to assist in or contribute to the protection, conservation and development of water within the state of Colorado . . . VATER RIGHTS

**FALL 1982** 

Published by Colorado Water Congress

VOL. 1, NO. 1

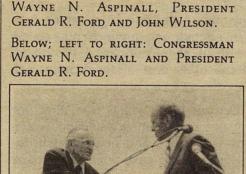
### Aspinall-Wilson Center Groundbreaking

RIGHT; LEFT TO RIGHT: CONGRESSMAN

A strong sense of past accomplishments of a great man and future expectations of a facility that bears his name made July 15, 1982 a day to remember in Gunnison, Colorado. July 15 was the day of the groundbreaking ceremony for the Wayne N. Aspinall-Joan A. Wilson Center in Gunnison. Present at that ceremony were friends from all corners of the "old fourth district," the State of Colorado and the nation. Among those friends — and honored guest and principal speaker — was the Honorable Gerald R. Ford, Thirty-Eighth President of the United States. The feeling, the warmth, the respect and the friendship between "Mr. Chairman" and President Ford is self evident in the pictures taken on that July day

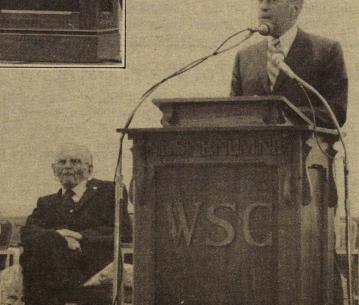
BELOW; LEFT TO RIGHT: JOHN WILSON, CONGRESSMAN WAYNE N. ASPINALL AND PRESIDENT GERALD R. FORD.

BELOW RIGHT; LEFT TO RIGHT: CON-GRESSMAN WAYNE N. ASPINALL AND PRESIDENT GERALD R. FORD.











This first issue of Colorado Water Rights is an historic issue an issue you will want to

y old friend and tutor, Wayne Aspinall, has honored us by writing the first guest editorial. Mr. Chairman's message presents the citizens of Colorado with a challenge. I urge every Coloradan to accept that challenge.

At this time, I would be remiss if I did not say that Wayne N. Aspinall has been an inspiration to me personally and, I know, many others. I was particularly pleased when the Colorado Water Congress Board of Directors recognized that quality of inspiration by establishing "The Wayne N. Aspinall Water Leader of the Year Award" in 1980. This award, as you know, is presented to that person exemplifying the courage, dedication, knowledge and leadership qualities shown by Wayne N. Aspinall in the development, protection and preservation of the waters of the State of Colorado.

As another tribute, it is my privilege as president of the Colorado Water Congress to dedicate this first issue of Colorado Water Rights to Wayne N. Aspinall - thank you Mr. Chairman.

Dick Martin



Photos by Western State College Foundation

### Bluebook 383.PDF

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Original Scans: Color at 300 DPI Arabian Desert Empty Quarter; the reference cycle is derived from a combination of aircraft (Convair-990) radiometer data and surface radiometer data, in conjunction with theoretical radiative transfer models needed for various transmission calculations.

Chapter 2 concludes with a discussion of some of the scientific consequences that have arisen based on the use of radiation budget estimates derived from NOAA operational weather satellite data.

Chapter 3 considers exchange processes within the 1979 Southwest Monsoon interpreted with the aid of satellite observations. To set the stage for this analysis, a review of previous research based on satellite measurements is provided. This includes a discussion of the various periodicities that have been identified in terms of monsoon fluctuations. Descriptions of the polar orbiting (TIROS-N) and geosynchronous (GOES-1) weather satellite data sets used in the investigation are provided. Two additional data sets derived from the radiation budget and passive microwave experiments on the Nimbus-7 experimental satellite are used to augment the research. Descriptions of these data sets are also provided. A general discussion of the techniques used to adapt spectral radiance measures obtained from

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combina t i on of aircraft (Convair-990) r adiometer data and sUrf ce r adi ome t er da t a, i n conjunction with th eor eti cal r adiati ve transfer model s needed f or various t ransmission calculations.

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exp erimen t al satellite are us ed t o augment t h e r esearch. Descript 0 of thes e data sets are also provided. A gener al discussi on of e techniques us ed t o adapt s pectral r adi an ce measur es obtai ned trom

- \* Low resolution (85dpi)
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- \* Background noise
- \* Lines on the background
- \* Large file size ( 1 page for 337 KB)
- \* Uncropped

Evapotranspiration Maps For Colorado

by

Luc Claessens, Luis Garcia, Robert Lange, and Marvin Jensen.

Agricultural and Chemical Engineering Colorado State University

January 21, 1994

Grant No. 14-08-001-G2008-2

Project No. 4

The research on which this report is based was financed in part by the U.S. Department of the Interior, Geological Survey, through the Colorado Water Resources Research Institute; and the contents of this publication do not necessarily reflect the views and policies of the U.S. Department of the Interior, nor does mention of trade names or commercial products constitute their endorsement by the United States Government

Colorado Water Resources Research Institute Colorado State University Fort Collins, Colorado 80523 Robert C. Ward, Director

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- \* 400dpi
- \* PDF file size: 43.4 KB
- \* More accurate OCRed text

### Reference Evapotranspiration Maps For Colorado

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Colorado Water Resources Research Institute Colorado State University Fort Collins, Colorado 80523 Robert C. Ward, Director



#### Articles Made In First Year Work

The first year work shall be the making of:

- I. Holder
- 2. Needle book
- 3. Work-bag
- 4. Work apron
- 5. Darning
- 6. Patching

This work is to be exclusively hand-sewing.



ARTICLES TO BE MADE IN FIRST YEAR WORK

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#### INTRODUCTION

The problem of estimating flood peaks from small watersheds is involved in the design of storm sewers, highway drainage, diversion works, bridges and culverts. The majority of such hydraulic structures are constructed on small watersheds, since small streams have not been gaged in the past as extensively as in the case of large streams, more of the designs have to be prepared without the benefit of stream flow records. In the design of many hydraulic structures the engineer is concerned not only with the maximum discharge but also with the total volume of runoff and its distribution with respect to time, i.e., the entire runoff hydrograph.

Estimating peak rates of runoff and the design hydrograph is an important problem for engineers since there are many small structures and their combined total cost may be considerable. Many hydraulic structures are either over designed or fail due to underestimation of floods because little information is readily available about the flow of small streams.

In view of the lack of data, various techniques have been developed and used for the determination of design discharges of small watersheds. Empirical formulas have been used for the determination of the peak discharge and synthetic hydrographs for ungaged watersheds have been developed. Many of the existing methods of peak discharge determination fail to take into account all of the factors upon which the runoff depends. Many of the synthetic hydrographs have been developed for a specific location and it is thought that they cannot be used outside the region where they were developed.

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- \* Historical document
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- \* Good scan for archival purpose

U. Ward Bannister
counselor at law
801-7 equitable building
Denver, Colo.

L. WARD BANNISTER
SAMUEL M. JANUARY
RAYMOND A. WAGNER
H. SHIELDS MASON

breath left in his body. Meanwhile I am not going to borrow any trouble about it.

As for the right of way provisions of the Act upheld by the Supreme Court, I too wish that the Court had cited all of the authorities cited in our brief. Only one authority was cited, but that was among those cited in our brief and could not have been taken from the brief of the Solicitor General because the Solicitor General had nothing to say in either of his briefs on the question of the validity of the provisions referred to, and also because the case which was cited in the opinion, namely the Utah Power and Light Company v. United States, is cited in the brief of the Government for a totally different proposition, namely that Arizona cannot prevent the United States from reclaiming and irrigating its own public lands.

L'hard Barniste

LWB.B

areas in impoverished countries with relatively pristine areas of high degrees of biodiversity.

In the United States, local chapter offices often establish and manage preserves through the use of willing buyer/seller markets and conservation easements. In the mid 1980s, the Colorado chapter of TNC acquired 1,700 acres of property, which is part of what is known as Phantom Canyon Ranch, located approximately 30 miles northwest of Fort Collins on the North Fork of the Cache la Poudre River. The preserve is a steep-sided canyon, roadless and verdant, in contrast with surrounding area of arid foothills dominated by scrub and grassland (Figure 5). This isolated canyon, approximately six

\* B/W=Bitmap does not work for grayscale nor color graphs



Figure 5 Phantom Canyon, looking south-southeast

miles long, is the last remnant of essentially undeveloped land along the Front Range of the Rocky Mountains in Colorado (www.tnc.org). The river has eroded pools in the granite substrate, some pools as much as 25 feet deep. These pockets carved out of solid areas in impoverished countries with relatively pristine areas of high degrees of biodiversity.

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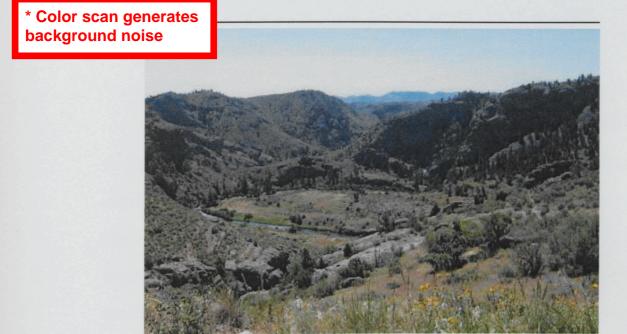


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TIFF LZW	Color 24 bits	5,773 KB	900 KB				
TIFF	Black-n-white	994 KB	116 KB				
TIFF LZW	Black-n-white	242 KB	116 KB				

TABLE 2								
Color Mode and Image Resolution vs. PDF File Size								
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Record 1 of 44



Brief view

Object document: Excavations at the GIlligan's... - Mets (7 K)

Bookmarkable URL http://hdl.handle.net/10217/21393

**Authors** Anderson, Cody Mitchell

Title Excavations at the Gilligan's Island shelters (5FN1592), Fort Carson Military Reservation (FCMR), Fremont County, Colorado

Keywords Gilligan's Island site; Fort Carson Military Reservation; FCMR; shelter occupation; prehistoric life; Middle Archaic period; Late Archaic period; Developmental period

Subjects Gilligan's Island Site (Colo.)

Excavations (Archaeology) -- Colorado -- Fremont County

Fort Carson (Colo.)

Fremont County (Colo.) -- Antiquities

Description 2 v. (xxvi, 554) leaves : ill., maps

Includes bibliographical references (p. 379-399)

Abstract This thesis examines the surface and subsurface archaeological work undertaken in 2002 at the Gilligan's Island site (5FN1592), located at the base of the Rocky Mountains on the Fort Carson Military

> Reservation, eastern Fremont County, Colorado. Permission was granted by Fort Carson to conduct an excavation at this site in order to determine its potential to produce significant subsurface occupational remains. Excavations focused on two connecting rock shelters at the base of a prominent cliff face. Four interconnecting grid units were positioned in a trench-like fashion through the central midline of each shelter proper. Deposition of excavated units ranges up to 1.3 meters in depth. These trenches exposed deeply stratified prehistoric materials including multiple intact features. The radiocarbon data (based on conventional uncalibrated dates) identified three prehistoric cultural components: Middle Archaic period (ca. 4240-3010 B.P.), Late Archaic period (ca. 2230-1880 B.P.),

and Developmental period (ca. 1390-1070 B.P.). A historic component is also evident and is associated with probable looting activities in the shelters.

Publisher Colorado State University. Libraries

Date 2008

Master of Arts (M.A.) Degree Name

Department Anthropology

Degree Grantor Colorado State University

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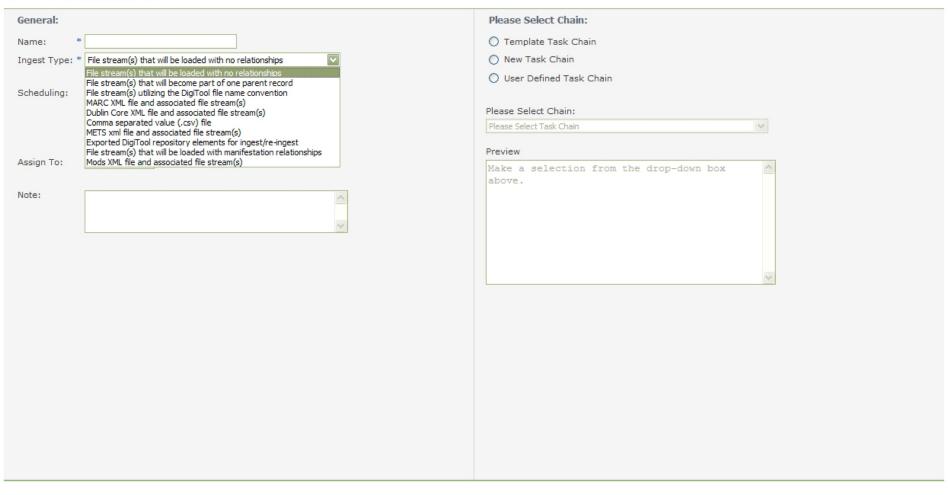
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- METS

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# MARC XML Ingest: How

- 1. Prepare batches (Digital Content Librarian)
- 2. Extract MARC records from SAGE (MPS staff)
- 3. Edit MARC via MarcEdit (MPS staff)
- 4. Convert to MARCXML via MarcEdit (MPS staff)
- 5. DigiTool ingest (Digital Content Librarian)

### Used for:

- Colorado Agricultural Bibliography (USAIN)
- Colorado Water Institute Publications (CWRRI)

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# DC XML Ingest: How

- 1. Create DC XML templates (Digital Content Librarian)
- Fill in templates (Digital Content Librarian or MPS staff)
- 3. DigiTool ingest (Digital Content Librarian)

### Used for:

- ETDs
- Faculty Publications, Student Posters, ...
- Archival materials

⊿	Α	В	С	D	E	F	G	Н	_	J	K	L	M
	Master File				Relation.	Descriptio	Relation		Coverage	Date		Language	Contribut
1	Name	Identifier	File Name	Title	IsFormatO	n	IsPart0f	Source	Spatial 1	Original	Language	(ISO code)	r
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3	UHPC_105	UHPCS01J	UHPC_105	Billy O'Brien	Negative #1	Two-storied	University H	Original: gla	Fort Collins	undated			
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6	UHPC_112	UHPCS01J	UHPC_112	Methodist C	Negative #1	Brick and st	University H	Original: gla	Fort Collins	1917			
7	UHPC_112	UHPCS01J	UHPC_112	Christian Cl	Negative #1	A brick and	University H	Original: gla	Fort Collins	1917			
8	UHPC_112	UHPCS01J	UHPC_112	United Pres	Negative #1	A light-color	University H	Original: gla	Fort Collins	1917		SV	
9	UHPC_112	UHPCS01J	UHPC_112	Catholic Ch	Negative #1	Stone buildi	University H	Original: gla	Fort Collins	1917			
10	UHPC_116	UHPCS03A	UHPC_116	Class in Da	Negative #1	Ten women	University H	Original: gla	Fort Collins	1901-04-30	/ 1		
11	UHPC_134	UHPCS03A	UHPC_134	Pigs, Anima	Negative #1	Seven pigle	University H	Original: gla	Colorado	undated		EXC	
12	UHPC_135	UHPCS03A	UHPC_135	Ayrshire He	Negative #1	Mostly white	University H	Original: gla	Colorado	1902-05-07			
13	UHPC_137	UHPCS03A	UHPC_137	Hamplou Li	Negative #1	A large bull,	University H	Original: gla	Colorado	undated			
14	UHPC_139	UHPCS03A	UHPC_139	Aberdeen A	Negative #1	A young dar	University H	Original: gla	Colorado	1902-05-07			
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16	UHPC_150	UHPCS03A	UHPC_150	1 Lamb, Ani	Negative #1	An unshorn	University H	Original: gla	Colorado	undated			
17	UHPC_152	UHPCS03A	UHPC_152	Fat Hogs, A	Negative #1	Seven or 8 f	University H	Original: gla	Colorado	undated			
18	UHPC_153	UHPCS03A	UHPC_153	Shorthorns	Negative #1	Fifteen to 18	University H	Original: gla	Fort Collins	1900-11-06			
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UHPC 172b.tif,UHPCS03A601149,UHPC 172b.jp2,"Dissecting Hog, Animal Husbandry", "Negative #172. Dissecting Hog, Animal Husbandry. undated", Eleven
UHPC 173b.tif,UHPCS03A601150,UHPC 173b.jp2,"Effie of Dalmeny 4th Denver Stock Yards, Aberdeen Angus Cow Imp.","Negative #173. Effie of Dalmeny
UHPC 178a.tif,UHPCS03A601151,UHPC 178a.jp2,"Hog Ranch, Animal Husbandry","Negative #178. Hog Ranch, Animal Husbandry, undated","Long open shed of
UHPC 184a.tif,UHPCS03A601152,UHPC 184a.jp2,"Stero Cows, Animal Husbandry","Negative #184. Stero Cows, Animal Husbandry. undated",Stereoscopic ph
UHPC 185a.tif,UHPCS03A601153,UHPC 185a.jp2,"Hogs, Animal Husbandry","Negative #185. Hogs, Animal Husbandry. undated",Two very large hogs standing
UHPC 190a.tif,UHPCS03A601154,UHPC 190a.jp2,"Sheep Feeding, Animal Husbandry","Negative #190. Sheep Feeding, Animal Husbandry. undated",A large m
UHPC 191a.tif,UHPCS03A601155,UHPC 191a.jp2,"Sheep Feeding, Animal Husbandry", "Negative #191. Sheep Feeding, Animal Husbandry. undated", Forty or
UHPC 192a.tif, UHPCS03A601156, UHPC 192a.jp2, "1 Sheep, Animal Husbandry", "Negative #192. 1 Sheep, Animal Husbandry, undated", "One extremely well-
UHPC 193a.tif,UHPCS03A601157,UHPC 193a.jp2,"Ram, Animal Husbandry", "Negative #193. Ram, Animal Husbandry, undated", Heavily-fleeced sheep facing
UHPC 195a.tif,UHPCS03A601158,UHPC 195a.jp2,"Hogs, Animal Husbandry","Negative #195. Hogs, Animal Husbandry. undated", Five hogs in a hog-wire per
UHPC 197a.tif,UHPCS03A601159,UHPC 197a.jp2,Persian Grade Sheep at Loomis's Lamb Feeding Corrals,Negative #197. Persian Grade Sheep at Loomis's I
UHPC 199a.tif,UHPCS03A601160,UHPC 199a.jp2,"Young Hereford, Animal Husbandry","Negative #199. Young Hereford, Animal Husbandry. undated","Straic
UHPC 200.tif,UHPCS03A601161,UHPC 200.jp2,"Cattle Group. Ayshire Lieut. of Hillhouse and Griffith, Hereford Armour Willon and B. Lamb","Negative
UHPC 201.tif,UHPCS03A601162,UHPC 201.jp2,"Ram, Animal Husbandry", "Negative #201. Ram, Animal Husbandry. undated", Heavily-fleeced sheep facing 16
UHPC 203.tif,UHPCS03A601163,UHPC 203.jp2,"Pen of Hogs, Animal Husbandry","Negative #203. Pen of Hogs, Animal Husbandry, undated",Twenty to 25 ho
UHPC 205a.tif,UHPCS03A601164,UHPC 205a.jp2, "Pansy and Calf, son of Perfection 2nd, C.A.C.", "Negative #205. Pansy and Calf, son of Perfection 2nd
UHPC 206a.tif,UHPCS03A601165,UHPC 206a.jp2,"""Wooly"" Ram or Buck","Negative #206. ""Wooly"" Ram or Buck. 20 February 1901","A single unshorn re
UHPC 207a.tif,UHPCS03A601166,UHPC 207a.jp2,"1 Cow, Animal Husbandry", "Negative #207. 1 Cow, Animal Husbandry. undated", A single black cow with a
UHPC 208.tif,UHPCS03A601167,UHPC 208.jp2,"1 Sheep, Animal Husbandry","Negative #208. 1 Sheep, Animal Husbandry, undated","A single unshorn sheep
UHPC 209.tif,UHPCS03A601168,UHPC 209.jp2,Bessie Genera,Negative #209. Bessie Genera. 8 June 1901,A black cow with white horns and a square white
UHPC 210.tif,UHPCS03A601169,UHPC 210.jp2,"Mare and Colt, Animal Husbandry","Negative #210. Mare and Colt, Animal Husbandry. undated",A young for
UHPC 211.tif,UHPCS03A601170,UHPC 211.jp2,"Young Colt, Animal Husbandry","Negative #211. Young Colt, Animal Husbandry. undated","A long-legged for
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UHPC\_212.tif,UHPCS03A601171,UHPC\_212.jp2,"Young Colt, Animal Husbandry","Negative #212. Young Colt, Animal Husbandry, undated","A young foal wit UHPC 213.tif,UHPCS03A601172,UHPC 213.tp2,"""Lucky Hit"","Negative #213. ""Lucky Hit."" December 1901",A young black bull calf with a white black

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# .CSV Ingest: How

### DigiTool:

- 1. Prepare metadata in MS Excel (MPS, Archives staff)
- 2. Prepare mapping XML (Digital Content Librarian)
- 3. Separate metadata into batches with matching files (Metadata Librarian)
- 4. Convert .xls or tab-delimited .txt files into .csv (Digital Content Librarian)
- 5. DigiTool ingest (Digital Content Librarian)

CDM Migration: export > mapping xml > convert > ingest

### Used for:

- UHPC
- CWCB (maps, report)
- CDM migration (CURC, ISTeC)

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11 ▽
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48 49

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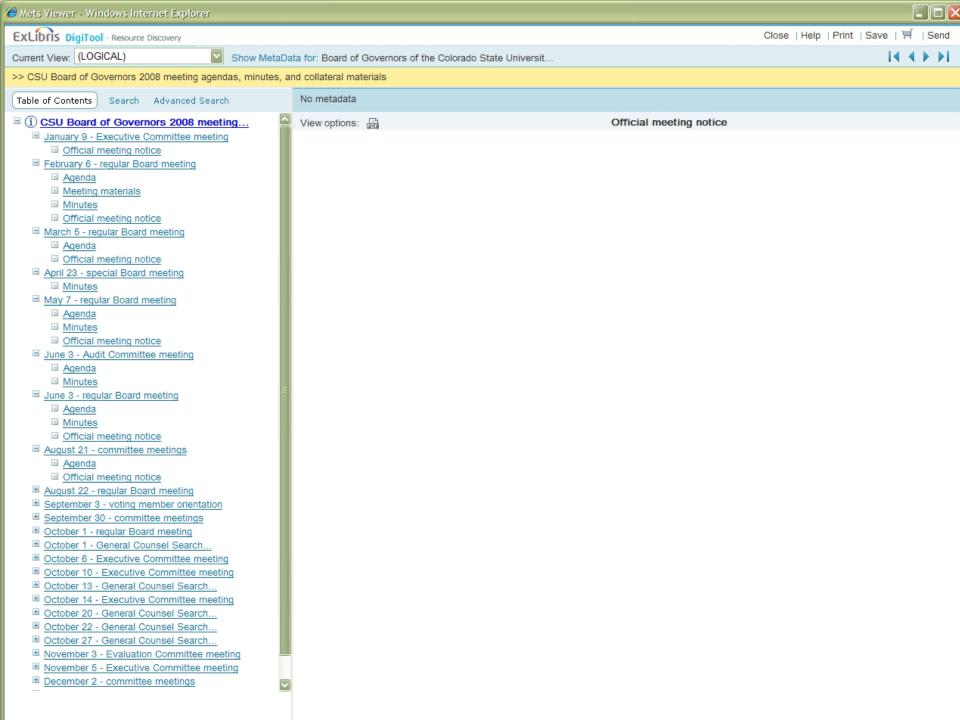
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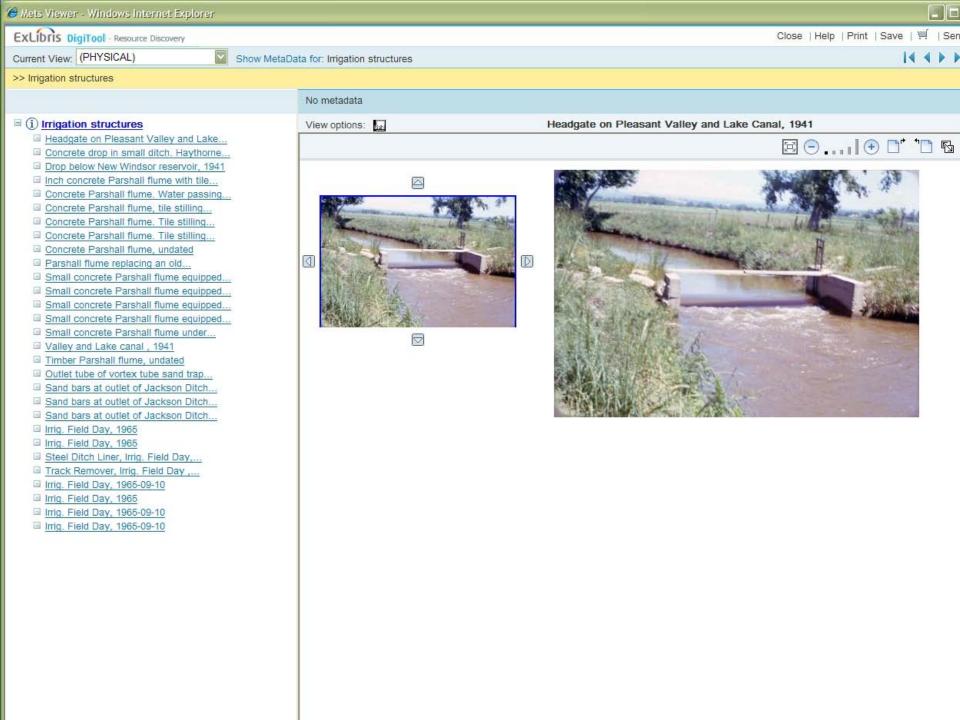
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### METS Intro

- A standard for encoding descriptive, administrative, and structural metadata regarding digital objects
- Used for creating and delivering digital objects with structure (books, journals, archival folders)
- Includes METS Header, Descriptive Metadata Section, Administrative Metadata Section, File Section, and Structural Map Section
- Used in combination with MARC, DC ...



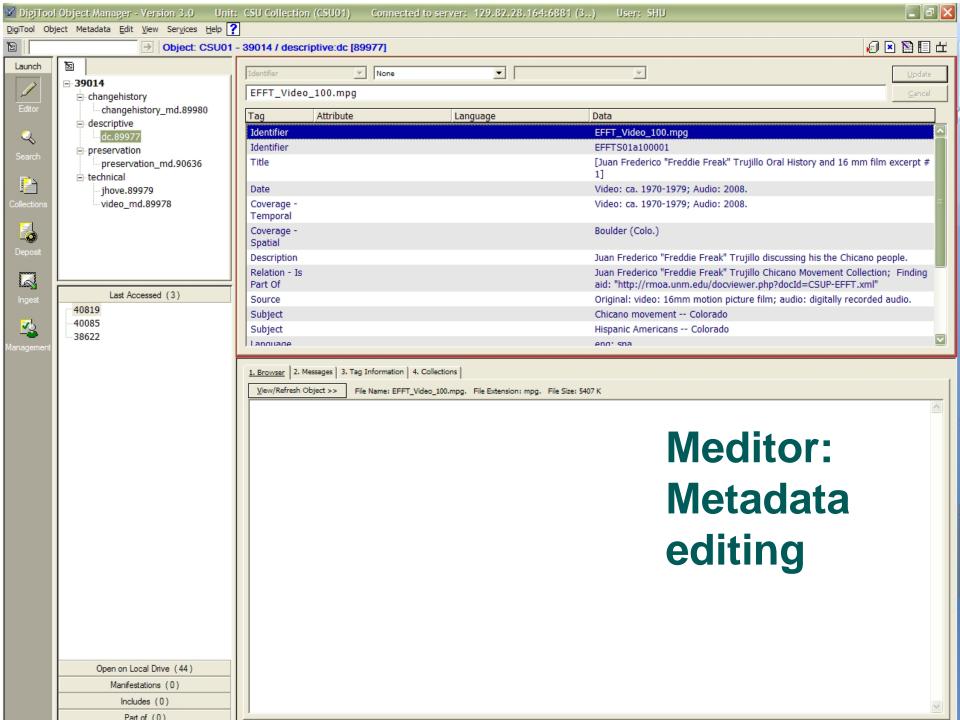


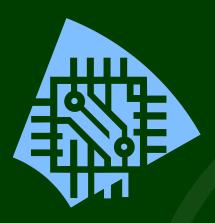
# METS XML Ingest

- 1. File organization
- 2. 1st DigiTool ingest
- 3. Run local utility
- 4. Flesh out raw METS
- 5. Final DigiTool ingest(All Digital Content Librarian)

### Used for:

- Board of Governors
- Journal of Student Affairs, Furthering Perspectives
- Archival collections (CWCB, RMFU, AGWS)





# Conclusions

- Close collaboration with Archives, MPS staff
- Plan & Test (develop workflows)
- Preparation (files, metadata)
- Lots of details (file names, special characters)
- Check & Fix post-ingest

# Building a Valuable Digital Collection Requires

- Comprehensive planning
- Training and testing
- Documentation
- Quality control

- Adequate funding
- User-friendly metadata
- A well-designed web presentation
- A preservation policy

# Questions?

Please feel free to contact any of the presenters.

Visit the Digital Project Management Plan Working Group's wiki for additional information and to learn about national and local digitization best practices and procedures.

# Thank you!