

AgNIC Pre-conference 2009

“If It’s Digital and in Google –
Then They Will Come”

Presented at the National Agricultural
Library

By

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Texas A&M University Libraries

April 21, 2009



Digitization Basics

Overview

- What is digital preservation
- Scanners
- Digitization standards
- Planning a project
- Mechanics / Demo of scanning



Why Digitize ?

- Make an archival preserved copy
- Make material accessible to the world
- More usage of materials
- Make Metadata Records Harvestable to Other Indexing and Search Sites



Desire a More Accessible Preserved Format than Microfilm

- TAES Bulletin started in 1888 so early volumes are becoming very brittle
- TAES Bulletin was first preserved by 1980-82 microfilming project
- Microfilm in only a few library locations
- Customers don't like to use microfilm!



Digitization Concepts

- Digital image – representation of a two dimensional image in digital bits of ones and zeroes
- AKA Raster image -- **raster graphics** image or **bitmap**, is a data structure representing a rectangular grid of pixels



Digitization Concepts – Image Quality

- Resolution
 - Resolution in dots per inch (dpi)
 - The higher the resolution the more dpi
 - Examples of commonly used resolutions: 200, 300, 400, 600 dpi
 - Film photograph or printed page resolution is up to 30,000 dpi



Digitization Concepts -- Image Quality

- Bit depth or color depth
 - number of bits used to represent the color of a single pixel in a bitmapped image
 - 1 bit monochrome (bi-tonal black and white)
 - 8 bit greyscale
 - 24 bit color



Digitization Concepts -- Image Quality

- Uncompressed raw image files
 - Bitmap (.bmp)
 - Tagged Image File Format (TIFF) (.tif)



Digitization Concepts -- Image Quality

- Compressed derivative files
 - Used for easier transmission over the web due to smaller size
 - Joint Photographic Experts Group (JPEG) (.jpg)
 - Portable Network Graphics (.png)
 - Graphics Interchange Format (.gif)
 - Portable Document Format (.pdf)



Types of Scanners

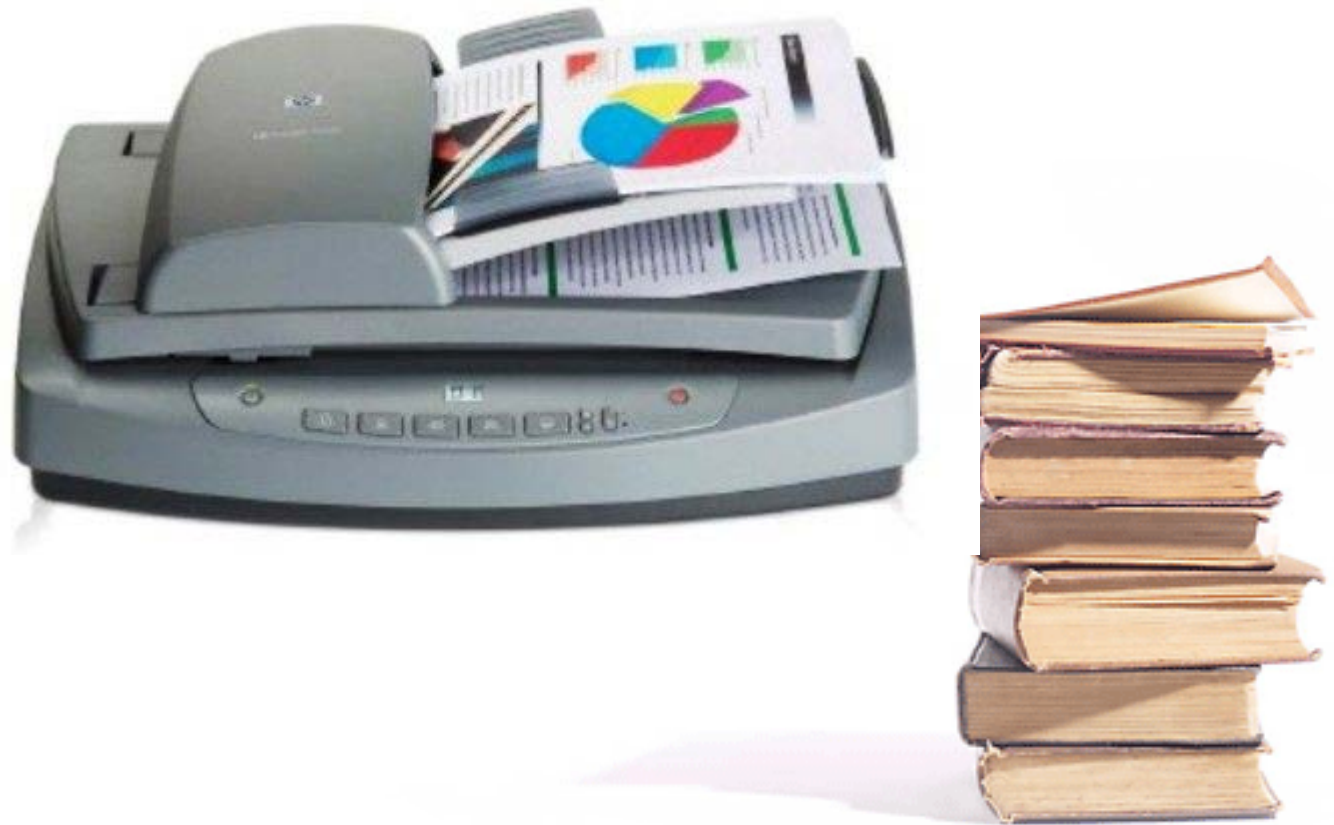
- Flat bed (may have sheet feeder)
- Book
 - Book edge
 - Book cradle
- Microform
 - Microfilm
 - Microfiche



Flatbed Scanner (\$500 to \$10K)



Flatbed Scanner with Document Feeder



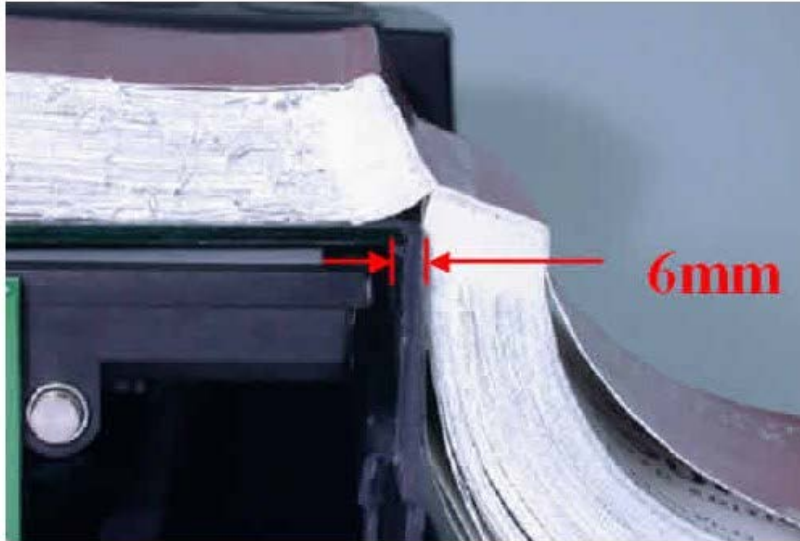
Book Edge Scanners



Book Edge Scanners (\$300 to \$5K)



Book Edge Scanner



Book Cradle Scanner (\$6K to \$25K)



Book Cradle Scanner with page turning (\$35K)



Book Cradle Scanner with page turning - Kirtas' APT BookScan 1200 (\$500K)



Project (Collection) Design

- Have a well thought out plan before doing anything!
- However realize you will still need to be flexible once operational



Example Project: Design of Texas A&M University Libraries' Digitization of the Bulletin of the Texas Agricultural Experiment Station



Workforce Requirements

- 1 Librarian – 20% time
- 2 Student Workers – 1/2 time at \$8.00 per hour
- Digital Repository minimum
 - 2 Librarians (head and metadata cataloger)
 - 2 Programmers

Project Design – Equipment and Software

- Computer Workstation
- 500 GB External Hard Drive
- Plustek 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 – TIFF Image Files

- One image file per page, including blank pages
- 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 – 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 Bull1400.pdf

Project Design – PDF Files

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

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 DSpace workflow
- Metadata OAI harvestable

Spreadsheet of Metadata

TAESBulletin Metadata by RM.xls [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View

Clipboard Font Alignment Number Styles Cells Editing

A1 Dublin Core element


A	B	C	D
Dublin Core element Label	creator Author	title Title	relation.isPartOf Series Title and Number
	McInnis, Louis L. (Louis Lowry); Sc	Plan of organization.	Bulletin / Texas Agricultural Experiment Station ; no. 1.
	Gulley, F. A.; Curtis, Geo. W.; Har	The Experiment station.	Bulletin / Texas Agricultural Experiment Station ; no. 2.
	Brunk, T. L.	Grasses.	Bulletin / Texas Agricultural Experiment Station ; no. 3.
	Pammel, L. H. (Louis Herman)	Root Rot of Cotton or "Cotton Blight".	Bulletin / Texas Agricultural Experiment Station ; no. 4.
	Gulley, F. A. (Frank Arthur); Curtis	Creameries for Texas.	Bulletin / Texas Agricultural Experiment Station ; no. 5.
	Gulley, F. A. (Frank Arthur)	Feeding experiment.	Bulletin / Texas Agricultural Experiment Station ; no. 6.
	Pammel, L. H. (Louis Herman)	Cotton Root-rot.	Bulletin / Texas Agricultural Experiment Station ; no. 7.
	Brunk, T. L.	Work in Horticulture.	Bulletin / Texas Agricultural Experiment Station ; no. 8.
	Brunk, Thomas L.; Jennings, H. S.	Pear Stocks. Some Parasitic Fungi of Texas.	Bulletin / Texas Agricultural Experiment Station ; no. 9.
	Gulley, F. A. (Frank Arthur); Carso	Feeding experiment no. 2	Bulletin / Texas Agricultural Experiment Station ; no. 10.
	Curtis, Geo. W.	Effect of cotton seed and cotton seed meal on butter p	Bulletin / Texas Agricultural Experiment Station ; no. 11.
	Francis, M. (Mark)	The Screw-worm.	Bulletin / Texas Agricultural Experiment Station ; no. 12.
		Sorghum: Value as Feed Stuff, Effect on Soil -	
		Teosinte:Analyses at Different Stages of Growth -	
	Harrington, H. H. (Henry Hill); Adria	Miscellaneous Analyses.	Bulletin / Texas Agricultural Experiment Station ; no. 13.
	Curtis, Geo. W. (George Washingto	Effect of Cotton Seed and Cotton Seed Meal in the Da	Bulletin / Texas Agricultural Experiment Station ; no. 14.
	Harrington, H. H. (Henry Hill); Adria	Influence of Climate on Composition of Corn.	Bulletin / Texas Agricultural Experiment Station ; no. 15.
	Beach, S. A. (Spencer Ambrose)	Work in Horticulture.	Bulletin / Texas Agricultural Experiment Station ; no. 16.
		General Information Relating to the Texas Agricultural	
	Curtis, Geo. W. (George Washingto	Experiment Station.	Bulletin / Texas Agricultural Experiment Station ; no. 17.
	Francis, M. (Mark)	Liver Flukes: the Common Fluke (Distomum hepaticum	Bulletin / Texas Agricultural Experiment Station ; no. 18.
	Curtis, Geo. W. (George Washingto	Corn fodder.	Bulletin / Texas Agricultural Experiment Station ; no. 19.
	Harrington, H. H. (Henry Hill)	Grasses and Forage Plants: a Study of Composition a	Bulletin / Texas Agricultural Experiment Station ; no. 20.
		Effect of Cotton Seed and Cotton Seed Meal in	
	Curtis, Geo. W.; Carson, J. W.	Feeding Hogs.	Bulletin / Texas Agricultural Experiment Station ; no. 21
	Curtis, Geo. W.	Alfalfa Root Rot.	Bulletin / Texas Agricultural Experiment Station ; no. 22.
	Price, R. H.	Black Rot of the Grape	Bulletin / Texas Agricultural Experiment Station ; no. 23.
	Curtice, Cooper; Francis, M.	The Cattle Tick: Biology, Preventive Measures.	Bulletin / Texas Agricultural Experiment Station ; no. 24.
	Harrington, H. H. (Henry Hill)	Texas Soils: A Study of Chemical Composition	Bulletin / Texas Agricultural Experiment Station ; no. 25.


Sheet1 Sheet2 Sheet3

Ready 100%

Scanner Setup


Book Pilot


1  C:\...k\OpticBook 3600\Sample.JBD


2 


Color Scan:
600 dpi, Descreen: No Descreen,
Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: On


Grayscale Scan:
400 dpi, Descreen: No Descreen,
Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: Off

B/W Scan:
300 dpi, Brightness 0 

 Rotate 180° on even scans

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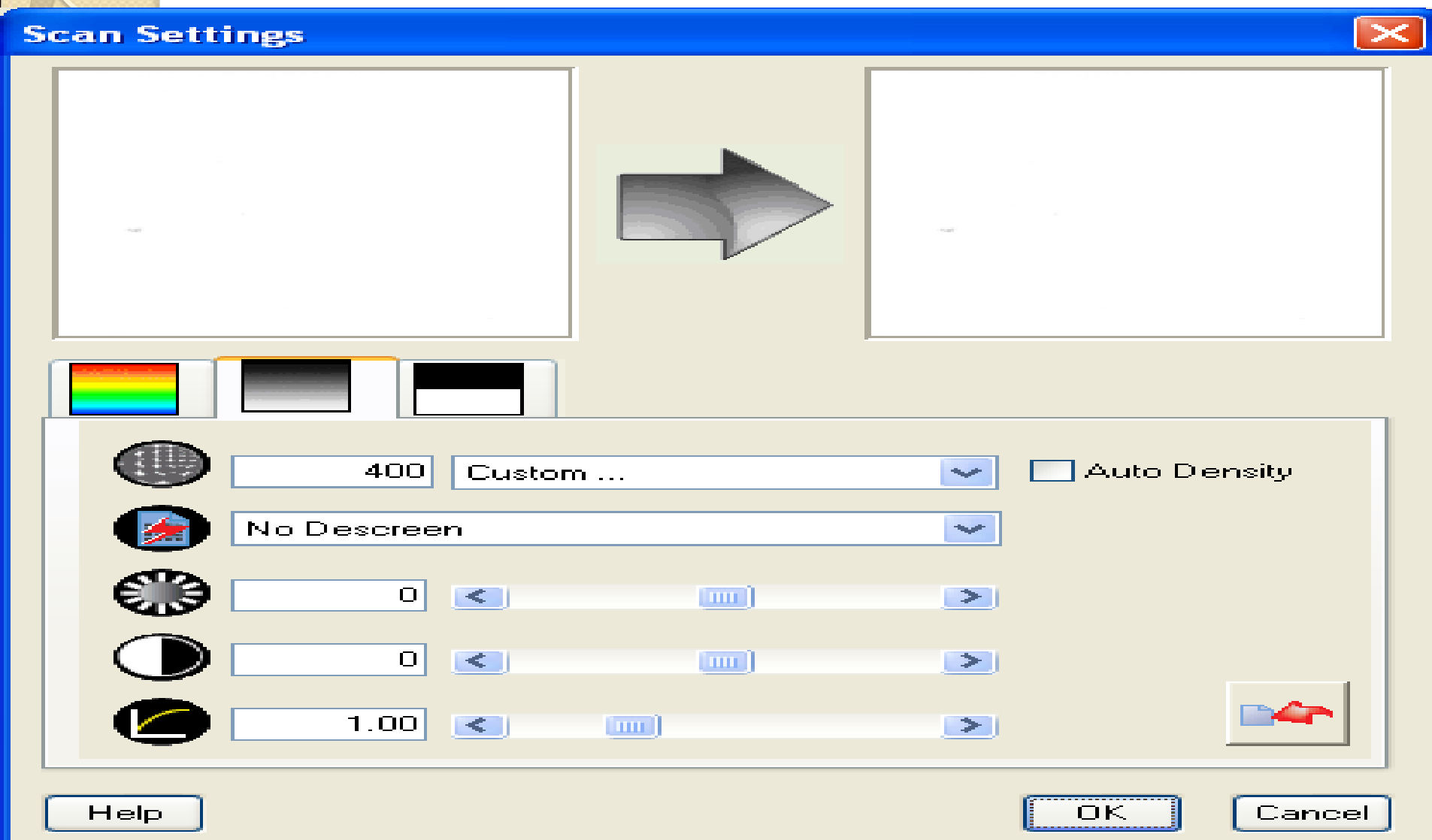
 *.TIF (Aldus Tiff)

 b0784

Please wait while the scanner warms up.
Click the [Cancel] button to abort.

45%

Scan Settings – Grayscale

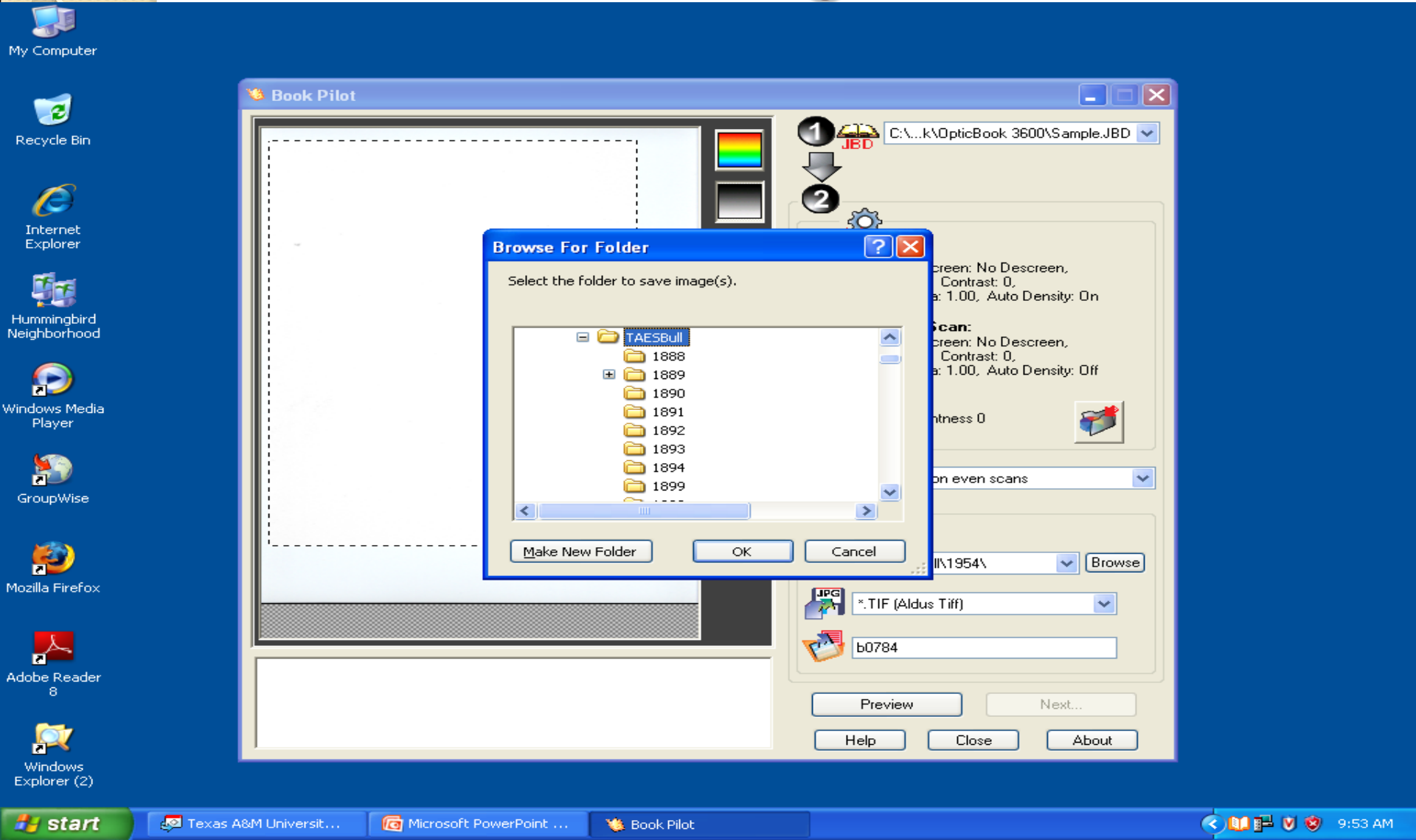


Rotate 180 on Even Scans

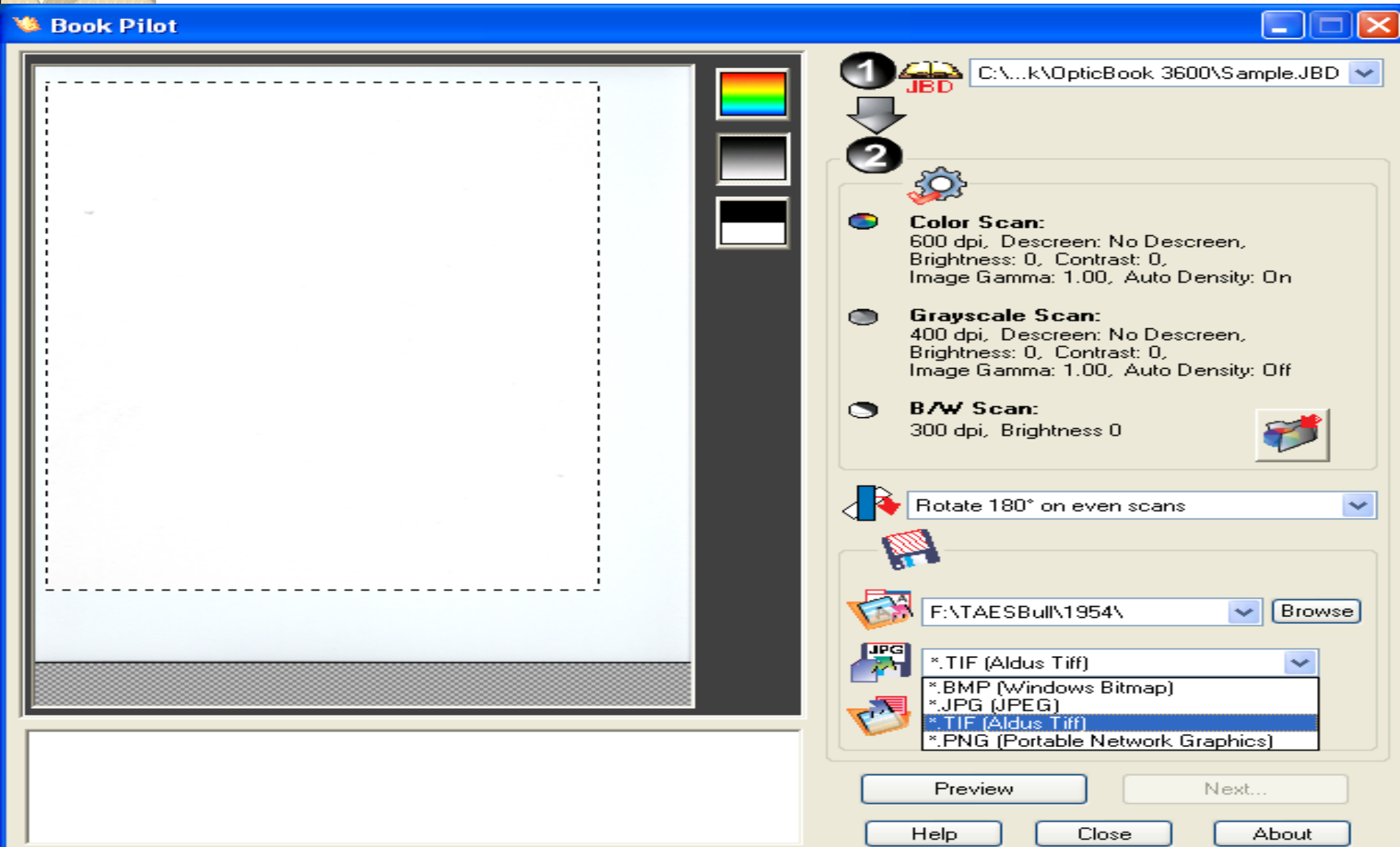
The screenshot shows the 'Book Pilot' software interface. The main window is titled 'Book Pilot' and contains a large preview area on the left with a dashed border. To the right of the preview area are three color calibration icons: a rainbow bar, a grayscale bar, and a black/white bar. On the far right, there is a settings panel with the following elements:

- A file path: C:\...k\OpticBook 3600\Sample.JBD
- A '1' icon with a book icon and 'JBD' text.
- A '2' icon with a gear icon.
- Three scan mode options:
 - Color Scan:** 600 dpi, Descreen: No Descreen, Brightness: 0, Contrast: 0, Image Gamma: 1.00, Auto Density: On
 - Grayscale Scan:** 400 dpi, Descreen: No Descreen, Brightness: 0, Contrast: 0, Image Gamma: 1.00, Auto Density: Off
 - B/W Scan:** 300 dpi, Brightness 0
- A rotation dropdown menu currently set to 'Rotate 180° on even scans'. The dropdown list includes:
 - No Rotation
 - Rotate CCW 90°
 - Rotate 180°
 - Rotate 180° on even scans (highlighted)
 - Rotate 180° on odd scans
- A file format dropdown menu set to '*.TIF (Aldus Tiff)'. A 'Browse...' button is visible to the right.
- A text field containing 'b0784'.
- Buttons for 'Preview', 'Next...', 'Help', 'Close', and 'About'.

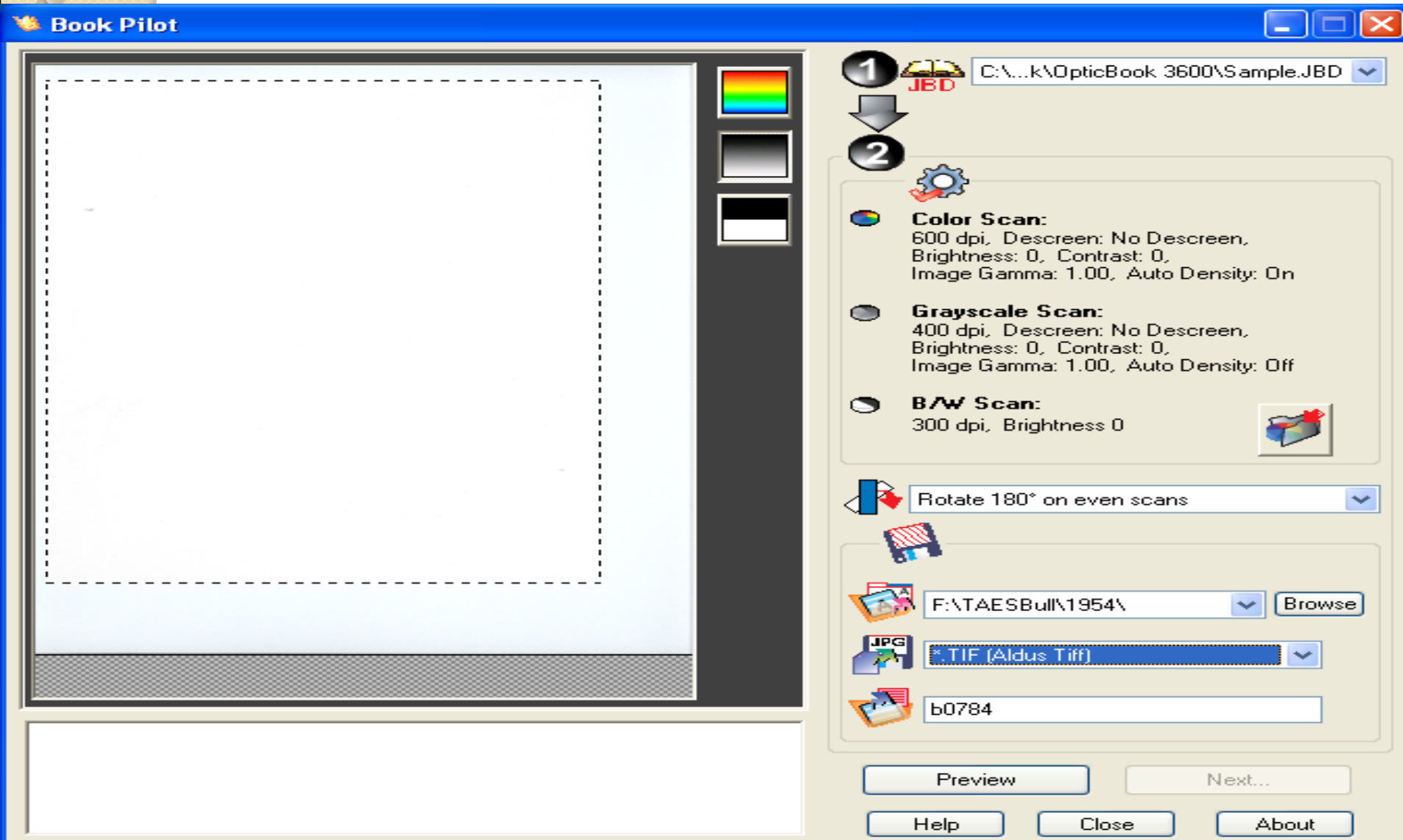
Select File Folder Path to Save Images



Select File Type -- TIF



Enter Base File Name– b#####



Preview Scan

Pricklypear – Good or Bad?

G. O. ROFFMAN and S. A. DARROW*

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands. It can have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened leafy stems. This water reserve enables the plant to withstand long drought periods. During drought and long periods, pricklypear stems increase in grass cover levels. With improved grazing management and grass conditions, pricklypear stems decrease in cover of competition from good grass cover. A grazing management system that allows desirable species to increase should control pricklypear when the original habitat use is controlled.

Several species of the genus *Opuntia*, are called pricklypear. One or more species may be a single very large plant or a cluster of plants. Figure 1. The most common and widespread pricklypear known in Texas are those of the species, *Opuntia engelmannii*, *Opuntia polyacantha*, and *Opuntia echinocarpa*. *Opuntia polyacantha* and *Opuntia echinocarpa* are the most common. *Opuntia polyacantha* and *Opuntia echinocarpa* are the most common. *Opuntia polyacantha* and *Opuntia echinocarpa* are the most common. *Opuntia polyacantha* and *Opuntia echinocarpa* are the most common.

Engelmannia pricklypear is common in the Great Plains, Texas, Texas, Rolling Plains and High Plains areas. It is an area plant that may grow as high as 6 feet, but normally is more than 2 feet. *Engelmannia pricklypear* plants are large and usually reach 4 to 12 inches across, with a yellowish-green color and spines. Its large stems are flattened, however, some species have small stems and some species have very small stems.

Fig. 1. *Engelmannia pricklypear*.



are large stems. The stems, called ribs, are large, flat, green and can be made into a pulp, which is used for animal feed. While it is the rib stem. This species is most common with other pricklypear of similar growth habit and form. Figure 2 shows the typical growth habit of *Opuntia polyacantha*.

Opuntia polyacantha is a woody, upright, spreading or trailing, up to 12 feet tall, with a definite cylindrical stem. *Opuntia polyacantha* is found in the South Texas Plains, Rolling Plains, Edwards Plateau, Texas Plains, Rolling Plains, High Plains and in a limited range on the Gulf Coast. The flowers are beautiful, yellow, coming from within the stem. *Opuntia polyacantha* has the strong rubbery taste to it. The stems can be made into a very good, white and cream colored like the rib stem. Typical growth characteristics and habit of *Opuntia polyacantha* are shown in Figure 3.

The spine pricklypear is found primarily in the Rolling and High Plains. This pricklypear is low growing, usually less than 6 feet tall, and has a very dense, upright growth habit. It is a very common species with green stems that are less than 1/2 inch across. Figure 4 shows a typical growth habit of spine pricklypear.

One species, also called cholla, is found in the South Texas Plains, Edwards Plateau and the Texas Plains areas. The plants are green and have stems that are 1/2 to 1 inch across. These stems are woody and a green, and in growing stems. The joints, covered with long spines, are broken off each and often left in the animal's feet, mouth and other body parts, causing serious injury. It is typical growth of this species is shown in Figure 5.

Fig. 3. *Opuntia polyacantha*.



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Color Scan:
600 dpi, Descreen: No Descreen,
Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: On

Grayscale Scan:
400 dpi, Descreen: No Descreen,
Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: Off

B/W Scan:
300 dpi, Brightness 0



Rotate 180° on even scans



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b0608

Preview

Next...

Help

Close

About

Adjust Scanning Margins

Book Pilot [Min] [Max] [Close]

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1 JBD

2

Color Scan:
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Grayscale Scan:
400 dpi, Descreen: No Descreen, Brightness: 0, Contrast: 0, Image Gamma: 1.00, Auto Density: Off

B/W Scan:
300 dpi, Brightness 0

Rotate 180° on even scans

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*.TIF (Aldus Tiff)

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Preview Next... Help Close About

Pricklypear – Good or Bad?
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Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands. It can have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened leafy stems. This water reserve enables the plant to withstand long drought periods. During drought and long periods, pricklypear density increases as grass cover decreases. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear since the original habitat use is controlled.

Several species of the genus *Opuntia*, are called pricklypear. One or more species occur in almost every geographical area of the State (Figure 1). The most common and widespread pricklypears known in Texas are those of the species, *Opuntia engelmannii*, *Opuntia polyacantha*, and *Opuntia polyacantha*. *Opuntia polyacantha* is a several year or biennial plant which has thick, flattened, greenish-grayish and shell. *Opuntia polyacantha* provides the greatest problem on Texas rangelands. It is a very hardy, a vigorous and aggressive growing species, particularly sheep and goats.

Engelmannii pricklypear is common in sections in the Great Plains, Texas Panhandle, Rolling Plains and High Plains areas. It is an area plant that may grow as high as 6 feet, but normally it never exceeds 3 feet. *Engelmannii* pricklypear plants are large and usually reach 4 to 12 inches across, with a well-developed root and stem. Its large stems

are bright yellow. The stems, called ribs, are large, thick, green and can be made into a pulp which is used for animal forage. *Engelmannii* is the ripe stem. This species is rarely confused with other pricklypears of similar growth habit and form. Figure 2 shows the typical growth habit of *Engelmannii* pricklypear.

Engelmannii pricklypear is commonly found in green hills and fields. It may be low and wide spreading or resemble up to 12 feet tall with a definite cylindrical stem. *Engelmannii* pricklypear is found in the South Texas Plains, Blackfoot Plains, Edwards Plateau, Trans-Pecos, Rolling Plains, High Plains and in a limited range on the Gulf Prairies. The flowers are beautifully colored, varying from yellow to red. Examples below show the young tender parts to eat. The stems can be made into a tasty jelly. *Engelmannii* and *Opuntia* like the ripe stems. Typical growth characteristics and habit of *Engelmannii* pricklypear are shown in Figure 2.

The spine pricklypear is found primarily in the Rolling and High Plains. This pricklypear is low growing, usually less than 6 feet tall, and has small stems. Generally, spine pricklypear is associated with green hills and has been associated with green hills. Figure 3 shows a typical growth habit of spine pricklypear.

One species, also called cholla, is found in the South Texas Plains, Edwards Plateau and the Trans-Pecos areas. The plants are prostrate and often dense masses of 10 to 60 feet across. These species are prostrate and a great deal of spreading stems. The joints, covered with long spines, are broken off each and stems stick to the animal's feet, mouth and other body parts, causing serious injury. It impedes growth of dog crosses in areas in Figure 3.

Fig. 2. *Engelmannii* pricklypear.

Fig. 3. Spine pricklypear.

Scan the Page Image

Book Pilot

Pricklypear – Good or Bad?

G. O. HOFFMAN and R. A. BARRON*

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands, but does have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened fleshy stems. This water reserve enables the plant to withstand long drought periods. During droughts and range overuse, pricklypear density increases as grass coverlessens. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear once the original infestation is controlled.

Several species of the genus, *Opuntia*, are called pricklypear. One or more species exist in almost every vegetational area of the State, Figure 1. The most common and widespread pricklypears known in Texas rangelands are engelmanni, *Opuntia engelmannii*, neopoli, *Opuntia leucocarpa*, and plains, *Opuntia polyacantha*. Included in the same group are several types of cholla, of which saguillo, *Opuntia leptocaulis*, and cholla, *Opuntia cholla*, provide the greatest problems on Texas rangelands. Dog cactus, *Opuntia schottii*, is injurious to grazing animals, particularly sheep and goats.

Engelmann pricklypear is common in the Edwards Plateau, Trans-Pecos, Rolling Plains and High Plains areas. It is an erect plant that may grow as high as 6 feet, but normally is never tree-like. Engelmann pricklypear pads are large and circular, usually 8 to 12 inches across, with a yellowish-green color and spines. Its large flowers

*Hoffman, Associate Range Specialist, Texas A&M University, and former Professor, Range and Forestry Department.

Fig. 2. Engelmann pricklypear.



are bright yellow. The fruits, called tans, are large, dark purple and can be made into a palatable and attractive colored syrup. Wildlife relish the ripe tans. This species is easily confused with other pricklypears of similar growth habit and form. Figure 2 shows the typical growth habit of engelmanni pricklypear.

Neopol pricklypear is extremely variable in growth form and habit. It may be low and wide spreading or tree-like, up to 22 feet tall, with a definite cylindrical trunk. Neopol pricklypear is found in the South Texas Plains, Kirkland Prairies, Edwards Plateau, Trans-Pecos, Rolling Plains, High Plains and, to a limited extent, on the Gulf Prairies. The flowers are beautifully colored, varying from yellow to red. Early-day Indians used the young tender pads as food. The tans can be made into a tasty jelly. Wildlife and even livestock like the ripe tans. Typical growth characteristics and habits of neopol pricklypear are shown in Figure 3.

The plains pricklypear is limited primarily to the Rolling and High Plains. This pricklypear is low growing, usually two pads tall, and forms small clumps. Generally, plains pricklypear is overgrown with grass when range has been managed properly. Figure 4 shows a typical growth habit of plains pricklypear.

Dog cactus, also called cholla, is limited to the South Texas Plains, Edwards Plateau and the Trans-Pecos areas. The plants are prostrate and form dense masses 10 to 50 feet square. These masses are impenetrable and a great pest to grazing animals. The joints, covered with long spines, are broken off easily and often cling to the animal's feet, mouth and other body parts, causing serious injury. A typical growth of dog cactus is shown in Figure 5.

Fig. 3. Neopol pricklypear.



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Grayscale Scan:

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Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: Off



B/W Scan:

300 dpi, Brightness 0



Rotate 180° on even scans



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b0806

Preview

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About


Next Page (rotated 180) Preview


Book Pilot [Minimize] [Maximize] [Close]


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2 

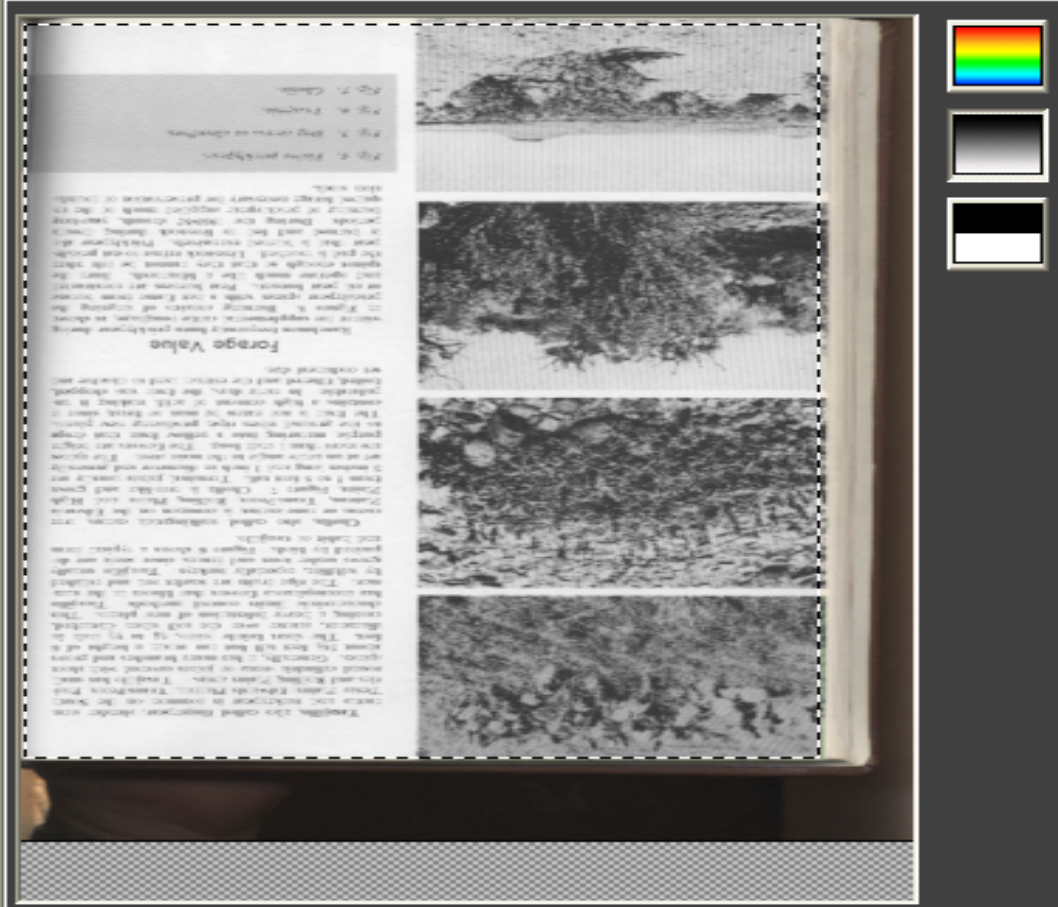
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- Grayscale Scan:**
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- B/W Scan:**
300 dpi, Brightness 0 

 Rotate 180° on even scans

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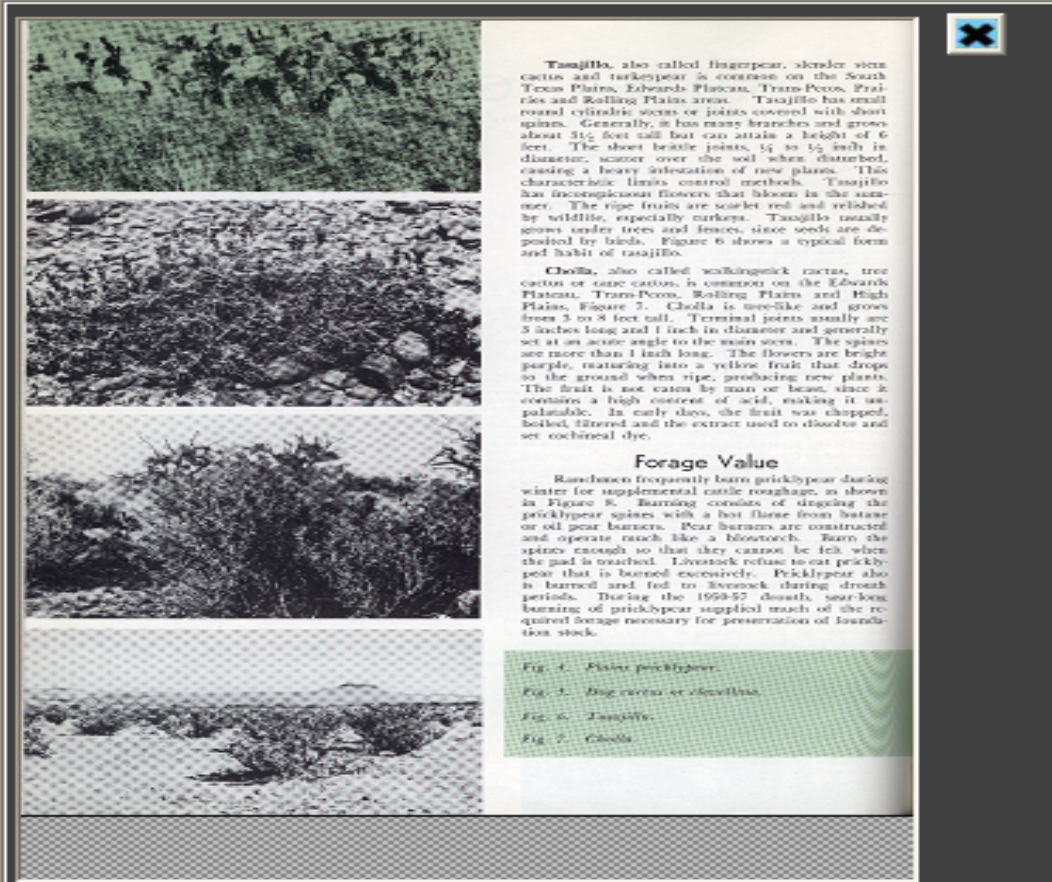
 *.TIF (Aldus Tiff)

 b0806



Scan Page (Auto-rotated Image)

Book Pilot



Color Mode, 600 dpi, 82.17MB
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2

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Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: On

Grayscale Scan:
400 dpi, Descreen: No Descreen,
Brightness: 0, Contrast: 0,
Image Gamma: 1.00, Auto Density: Off

B/W Scan:
300 dpi, Brightness 0

Rotate 180° on even scans

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Preview Next... Help Close About

Resulting TIF Image of Page

b0806 0002.tif - Windows Picture and Fax Viewer

Pricklypear — Good or Bad?

G. O. HOFFMAN and R. A. DARROW*

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands, but does have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened-fleshy stems. This water reserve enables the plant to withstand long drought periods. During droughts and range overuse, pricklypear density increases as grass cover lessens. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear once the original infestation is controlled.

Several species of the genus, *Opuntia*, are called pricklypear. One or more species exist in almost every vegetational area of the State, Figure 1. The most common and widespread pricklypears known to Texas ranchmen are engelmann, *Opuntia engelmanni*, nopal, *Opuntia lindheimeri*, and plains, *Opuntia polyacantha*. Included in the same group are several types of chollas of which tasajillo, *Opuntia leptocaulis*, and cholla, *Opuntia imbricata*, provide the greatest problems on Texas rangelands. Dog cactus, *Opuntia schottii*, is injurious to grazing animals, particularly sheep and goats.

Engelmann pricklypear is common in the Edwards Plateau, Trans-Pecos, Rolling Plains and High Plains areas. It is an erect plant that may grow as high as 6 feet, but normally is never tree-like. Engelmann pricklypear pads are large and circular, usually 8 to 12 inches across, with a yellowish-green color and spines. Its large flowers

*Respectively, Extension range specialist, Texas A&M University, and former professor, Range and Forestry Department.

Fig. 2. Engelmann pricklypear.



are bright yellow. The fruits, called tuna, are large, dark purple and can be made into a palatable and attractive colored syrup. Wildlife relish the ripe tunas. This species is easily confused with other pricklypears of similar growth habits and form. Figure 2 shows the typical growth habit of engelmann pricklypear.

Nopal pricklypear is extremely variable in growth form and habits. It may be low and wide-spreading or tree-like, up to 12 feet tall, with a definite cylindrical trunk. Nopal pricklypear is found in the South Texas Plains, Blackland Prairies, Edwards Plateau, Trans-Pecos, Rolling Plains, High Plains and, to a limited extent, on the Gulf Prairies. The flowers are beautifully colored, varying from yellow to red. Earlyday Indians used the young tender pads as food. The tunas can be made into a tasty jelly. Wildlife and even livestock like the ripe tunas. Typical growth characteristics and habits of nopal pricklypear are shown in Figure 3.

The plains pricklypear is limited primarily to the Rolling and High Plains. This pricklypear is low growing, usually two pads tall, and forms small clumps. Generally, plains pricklypear is overgrown with grass when range has been managed properly. Figure 4 shows a typical growth habit of plains pricklypear.

Dog cactus, also called clavellina, is limited to the South Texas Plains, Edwards Plateau and the Trans-Pecos areas. The plants are prostrate and form dense masses 10 to 50 feet square. These masses are impenetrable and a great pest to grazing animals. The joints, covered with long spines, are broken off easily and often cling to the animal's feet, mouth and other body parts, causing serious injury. A typical growth of dog cactus is shown in Figure 5.

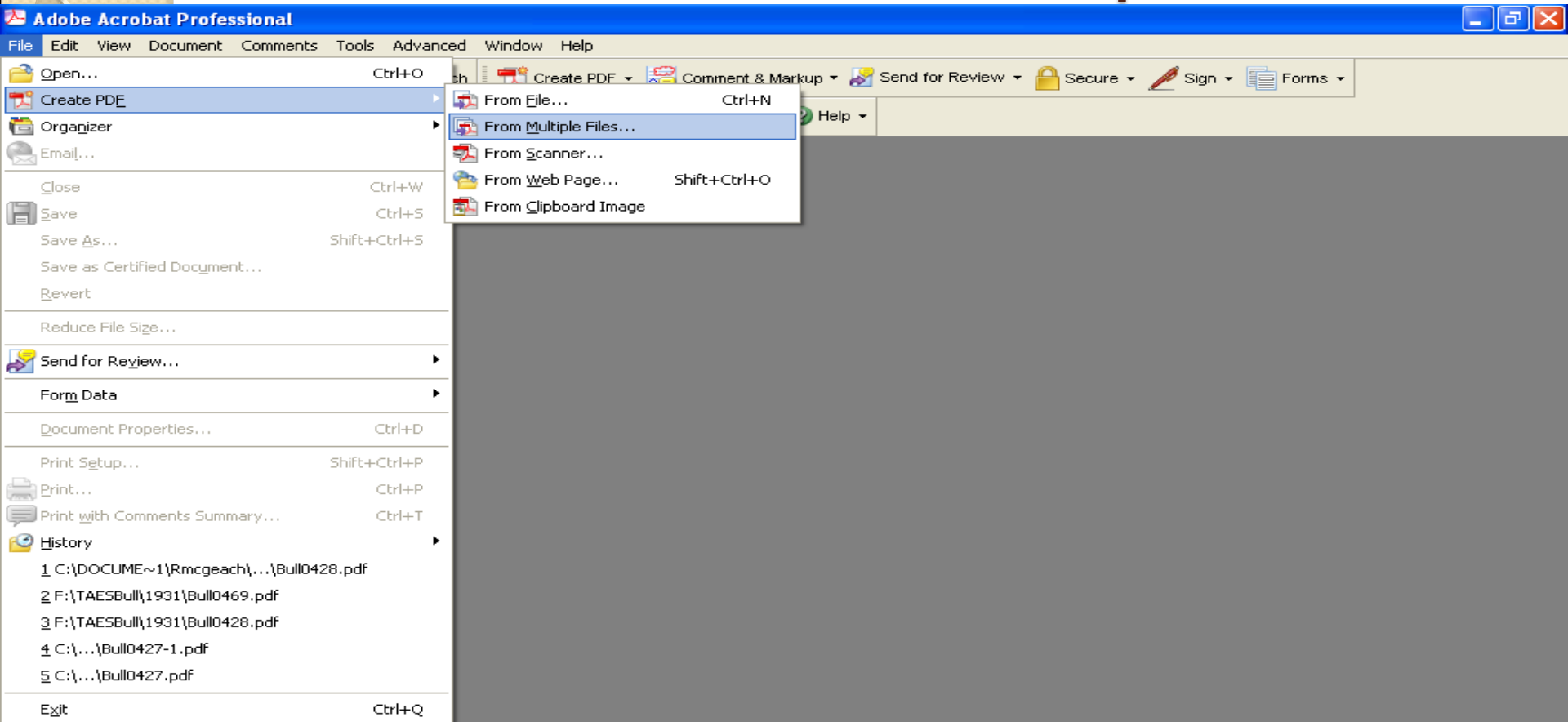
Fig. 3. Nopal pricklypear.



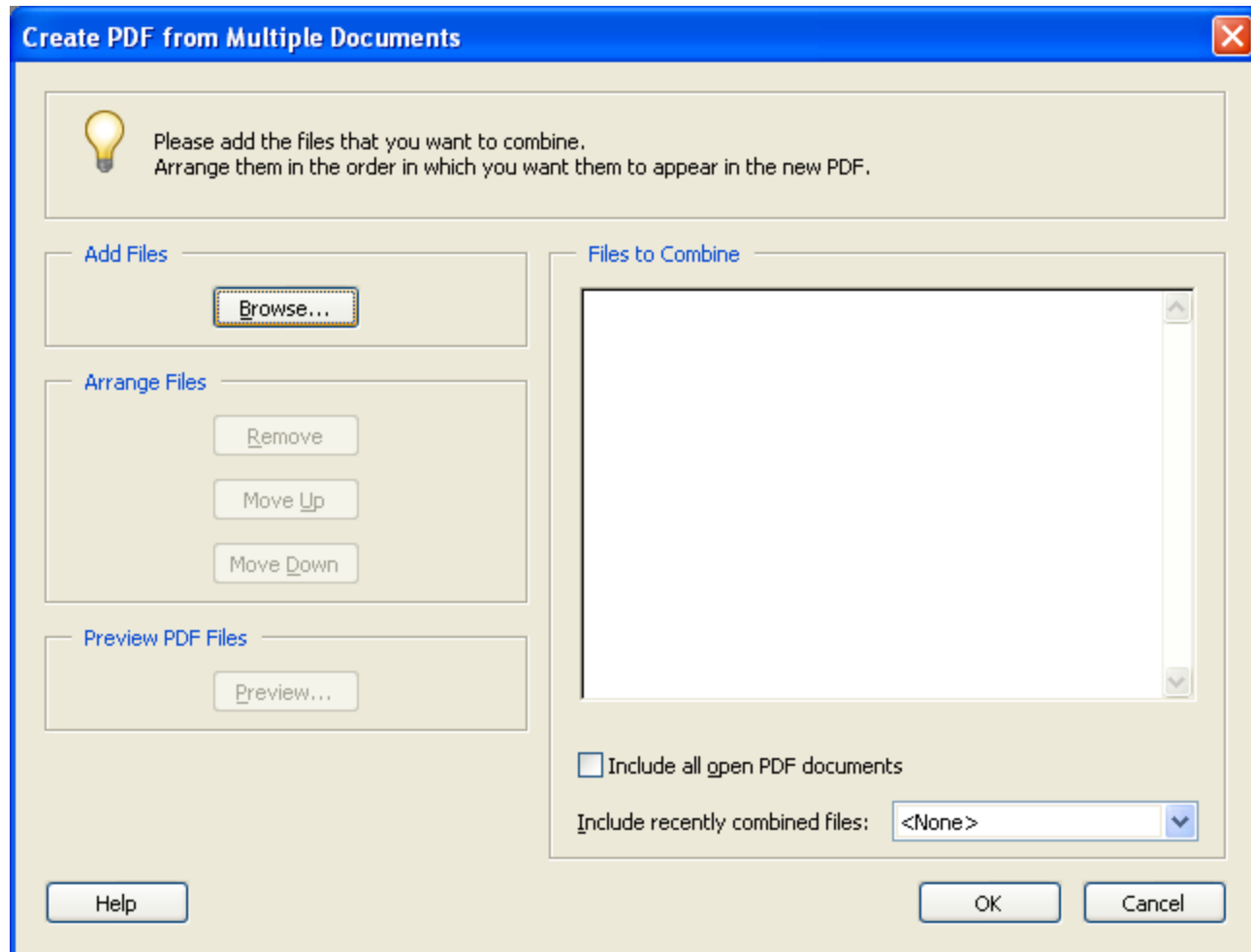
Demo of Problem Scans

- B&W scans too all or nothing
- Image too skewed, not straight
- Too much dark page gutter

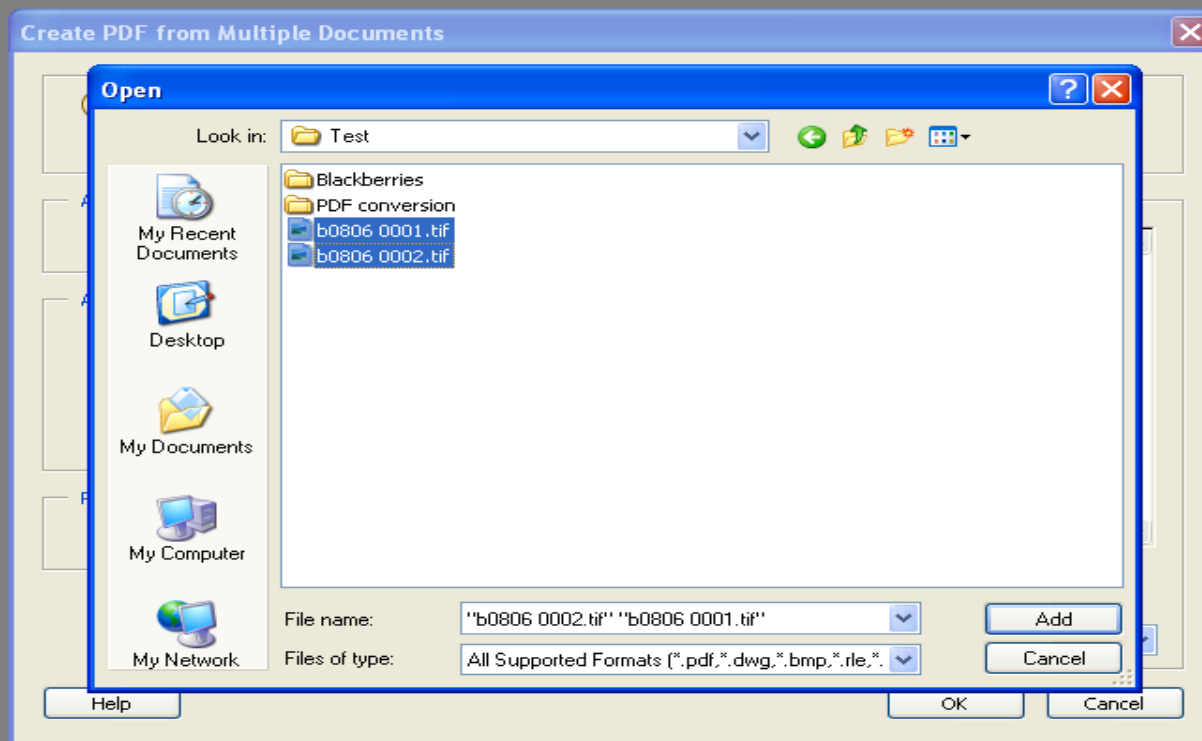
Adobe Acrobat Professional: Create New PDF from Multiple Files



Browse to File Folder



Select Multiple Files Using Control Key



Added File List

Create PDF from Multiple Documents



Please add the files that you want to combine.
Arrange them in the order in which you want them to appear in the new PDF.

Add Files

Browse...

Arrange Files

Remove



Move Up

Move Down

Preview PDF Files

Preview...

Files to Combine

-  b0806 0001.tif
-  b0806 0002.tif

Include all open PDF documents

Include recently combined files: <None>

Help

OK


Cancel

Processing into PDF File



Progress

Assembling Document 2 of 2



Opening Image File as Adobe PDF: 100%

The progress dialog box has a blue header with the word "Progress". It contains two sections. The first section is titled "Assembling Document 2 of 2" and features a horizontal progress bar with green segments, indicating that the process is nearly complete. The second section is titled "Opening Image File as Adobe PDF: 100%" and shows that this specific task is also finished.

Save New File as Bull####.pdf

The screenshot displays the Adobe Acrobat Professional interface. The main window shows a document titled "[Binder1.pdf]". The "Save As" dialog box is open, showing the following details:

- Save in:** Test
- File name:** test Bull0806.pdf
- Save as type:** Adobe PDF Files (*.pdf)

The background document page contains text about pricklypear, including the following paragraphs:

Pricklypear has been more than a century. undesirable plant on have some economic for cattle and sheep periods. Pricklypear storing water in its water reserve enables drouth periods. Dur use, pricklypear dens lessens. With improv grass conditions, pric cause of competition grazing management grasses to increase sho the original infestation

Several species of the genus, *Opuntia*, are called pricklypear. One or more species exist in almost every vegetational area of the State, Figure 1. The most common and widespread pricklypears known to Texas ranchmen are engelmann. *Opuntia engel*

called tuna, are de into a pala Wildlife relish y confused with th habits and growth habit of

y variable in low and wide- et tall, with a pricklypear is ns, Blackland Pecos, Rolling ted extent, on are beautifully

colored, varying from yellow to red. Earlyday Indians used the young tender pads as food. The tunas can be made into a tasty jelly. Wildlife and even livestock like the ripe tunas. Typical growth characteristics and habits of nopal pricklypear are shown in Figure 8

The taskbar at the bottom shows the Start button and several open applications: Texas A&M Universit..., Microsoft PowerPoint..., Book Pilot (Not Respo..., Test, and Binder1.pdf. The system clock shows 10:44 AM.

New PDF File

Adobe Acrobat Professional - [test Bull0806.pdf]

File Edit View Document Comments Tools Advanced Window Help

Create PDF Comment & Markup Send for Review Secure Sign Forms Picture Tasks

Select 100% Help

Pricklypear – Good or Bad?

G. O. HOFFMAN and R. A. DARROW*

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands, but does have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened-fleshy stems. This water reserve enables the plant to withstand long drought periods. During droughts and range overuse, pricklypear density increases as grass cover lessens. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear once the original infestation is controlled.

Several species of the genus, *Opuntia*, are called pricklypear. One or more species exist in almost every vegetational area of the State, Figure 1. The most common and widespread pricklypears known to Texas ranchmen are engelmann, *Opuntia engelmanni*, nopal, *Opuntia lindheimeri*, and plains, *Opuntia polyacantha*. Included in the same group are several types of chollas of which tasajillo, *Opuntia leptocaulis*, and cholla, *Opuntia imbricata*, provide the greatest problems on Texas rangelands. Dog cactus, *Opuntia schottii*, is injurious to grazing animals, particularly sheep and goats.

Engelmann pricklypear is common in the Edwards Plateau, Trans-Pecos, Rolling Plains and High Plains areas. It is an erect plant that may

are bright yellow. The fruits, called tuna, are large, dark purple and can be made into a palatable and attractive colored syrup. Wildlife relish the ripe tunas. This species is easily confused with other pricklypears of similar growth habits and form. Figure 2 shows the typical growth habit of engelmann pricklypear.

Nopal pricklypear is extremely variable in growth form and habits. It may be low and wide-spreading or tree-like, up to 12 feet tall, with a definite cylindrical trunk. Nopal pricklypear is found in the South Texas Plains, Blackland Prairies, Edwards Plateau, Trans-Pecos, Rolling Plains, High Plains and, to a limited extent, on the Gulf Prairies. The flowers are beautifully colored, varying from yellow to red. Earlyday Indians used the young tender pads as food. The tunas can be made into a tasty jelly. Wildlife and even livestock like the ripe tunas. Typical growth characteristics and habits of nopal pricklypear are shown in Figure 3.

The plains pricklypear is limited primarily to the Rolling and High Plains. This pricklypear is low growing, usually two pads tall, and forms small clumps. Generally, plains pricklypear is overgrown with grass when range has been managed properly. Figure 4 shows a typical growth habit of plains pricklypear.

Dog cactus, also called clavellina, is limited to the South Texas Plains, Edwards Plateau and the

1 of 2

start Texas A&M Universit... Microsoft PowerPoint ... Book Pilot (Not Respo... Test test Bull0806.pdf 10:47 AM

Do OCR on the File

The screenshot displays the Adobe Acrobat Professional interface. The 'File' menu is open, and the 'Recognize Text Using OCR' option is selected, which has opened a sub-menu. In this sub-menu, the 'Start...' option is highlighted. Other options in the sub-menu include 'Find First OCR Suspect' and 'Find All OCR Suspects'. The background shows a document page with text about pricklypear, including the heading 'Good or Bad?' and the author 'DARROW*'. The Windows taskbar at the bottom shows the Start button and several open applications: Texas A&M Universit..., Microsoft PowerPoint..., Book Pilot (Not Respo..., Test, and test Bull0806.pdf. The system clock shows 10:50 AM.

Select -- On All Pages

The screenshot shows the Adobe Acrobat Professional interface. The main window displays a PDF document titled "test Bull0806.pdf". The document content includes a large green heading "Pricklypear - Good or Bad?" and several paragraphs of text. A "Recognize Text" dialog box is open in the center, with the "All pages" radio button selected under the "Pages" section. The "Settings" section shows "Primary OCR Language: English (US)", "PDF Output Style: Searchable Image (Exact)", and "Downsample: Lowest (600 dpi)". The "OK" button is highlighted. The taskbar at the bottom shows the Start button and several open applications: Texas A&M Universit..., Microsoft PowerPoint..., Book Pilot (Not Respo..., Test, and test Bull0806.pdf. The system clock shows 10:51 AM.

Adobe Acrobat Professional - [test Bull0806.pdf]

File Edit View Document Comments Tools Advanced Window Help

Create PDF Comment & Markup Send for Review Secure Sign Forms Picture Tasks

Select 100% Help

Recognize Text

Pages

All pages

Current page

From page to

Settings

Primary OCR Language: English (US)
PDF Output Style: Searchable Image (Exact)
Downsample: Lowest (600 dpi)

Edit...

OK Cancel

1 of 2

start Texas A&M Universit... Microsoft PowerPoint... Book Pilot (Not Respo... Test test Bull0806.pdf 10:51 AM

Makes PDF fully text searchable

Adobe Acrobat Professional - [test Bull0806.pdf]

File Edit View Document Comments Tools Advanced Window Help

Search Create PDF Comment & Markup Send for Review Secure Sign Forms Picture Tasks

Select 100% Help

Find

Find: pear Previous Next

Pricklypear – Good or Bad?

G. O. HOFFMAN and R. A. DARROW*

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands, but does have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened-fleshy stems. This water reserve enables the plant to withstand long drought periods. During droughts and range over-use, pricklypear density increases as grass cover lessens. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear once the original infestation is controlled.

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Dog cactus, also called clavellina, is limited to the South Texas Plains, Edwards Plateau and the

1 of 2

start Texas A&M Univ... Microsoft Power... Book Pilot (Not... Test Adobe Acrobat ... test Bull0806.pdf 10:59 AM

PDF File with OCRred Text

- Allows searching with in retrieved documents
- Also allows full text indexing of the item if the Repository is designed to include text of PDF, Word, TXT type files in the indexing it generates in addition to the Metadata in item records



Questions on Digitization and Scanning Basics?



This Slide Blank in Original

(Time for a break!)



Digitization – In Depth

Metadata, Repositories, and Access

Outline:

- Standards Initiatives
- Metadata Standards
- Repositories
- Access to Repositories

Standards Initiatives

- National Digital Infrastructure Preservation Program (NDIPP)
 - <http://www.digitalpreservation.gov/>
- Federal Agencies Digitization Guidelines Initiative
 - <http://www.digitizationguidelines.gov/stillimages/documents/DigitizationStandards.pdf>
 - http://www.digitizationguidelines.gov/stillimages/documents/Guidelines_Bibliography-DRAFT-2008-07-20-1.pdf

NAL Scanning Specifications

- Home / NAL Collections /
Preservation/ Scanning Specifications
 - http://riley.nal.usda.gov/nal_display/index.php?info_center=8&tax_level=3&tax_subject=158&topic_id=2009&level3_id=6471

NAL Scanning Specifications

Scanning Specifications : NAL Collections : National Agricultural Library - Windows Internet Explorer

http://riley.nal.usda.gov/nal_display/index.php?info_center=8&tax_level=3&tax_subject=158&topic_id=2009&level3_id=6471

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USDA United States Department of Agriculture National Agricultural Library

NAL

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You are here: Home / NAL Collections / Preservation / Scanning Specifications [Printable Page](#)

NAL Collections

Preservation

Scanning Specifications

The NAL bases its scanning specifications on guidelines from the National Archives and the Federal Agencies Digitization Guidelines Initiative. A brief overview is provided below.

Scanning must create a single Tagged Image File Format (TIFF) file per page, capturing all pages including those intentionally left blank. Scans should not be cropped or de-skewed. TIFF image files must conform to the TIFF 6.0 specification. The conversion of document pages must be as follows:

Pages in Original Document ...	Resolution (pixels per inch/samples per inch)*	Bit Depth	Compression
are blank or contain only text, charts, or line art	600	1-bit bitonal	ITU-T Group 4
		24-bit	

Search NAL

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Browse by Audience

Information for...

Browse by Subject

- Animals and Livestock
- Education and Outreach
- Food and Nutrition
- History, Art and Biography
- Laws and Regulations
- Marketing and Trade
- Natural Resources and Environment
- Plants and Crops
- Research and Technology
- Rural and Community Development

NAL Collections

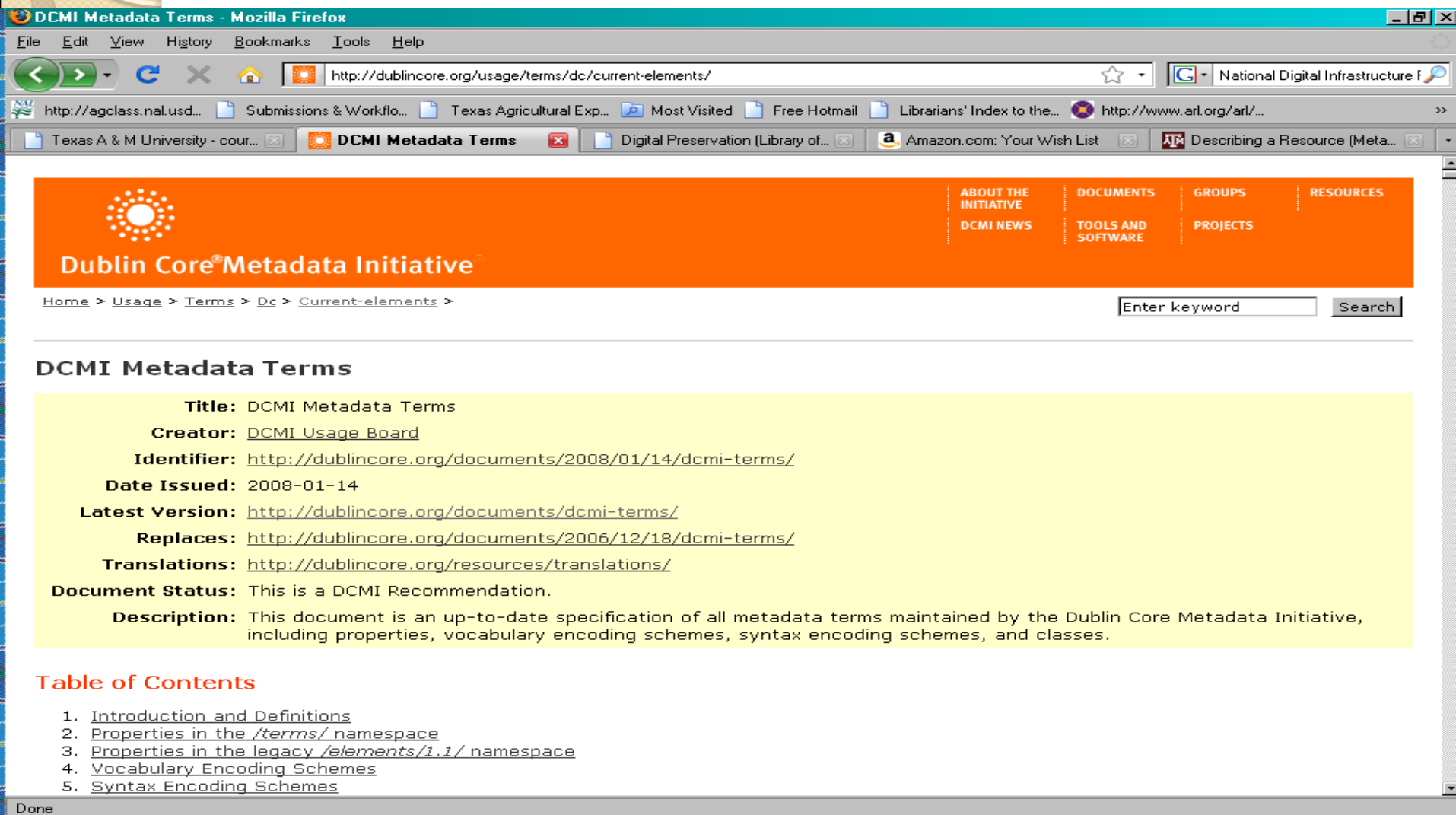
- Special Collections
- Preservation
 - Scanning Specifications
- Gift Donations
- Publications Exchange
- NALDR
- GPO Depository Materials at NAL

Done Internet 100%

Metadata Standards

- Dublin Core Metadata Initiative
 - <http://dublincore.org/usage/terms/dc/current-elements/>
- Example Digital Library Metadata Policy
 - <http://digital.library.tamu.edu/services/scholarly-communication/texas-a-m-repository-policies-and-procedures/metadata-policy>

Dublin Core Metadata Initiative




DCMI Metadata Terms - Mozilla Firefox

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http://dublincore.org/usage/terms/dc/current-elements/

http://agclass.nal.usd... Submissions & Workflo... Texas Agricultural Exp... Most Visited Free Hotmail Librarians' Index to the... http://www.arl.org/arl/...

Texas A & M University - cour... DCMI Metadata Terms Digital Preservation (Library of... Amazon.com: Your Wish List Describing a Resource (Meta...

 Dublin Core® Metadata Initiative

ABOUT THE INITIATIVE DCMI NEWS DOCUMENTS TOOLS AND SOFTWARE GROUPS PROJECTS RESOURCES

Home > Usage > Terms > Dc > Current-elements >

Enter keyword Search

DCMI Metadata Terms

Title: DCMI Metadata Terms

Creator: [DCMI Usage Board](#)

Identifier: <http://dublincore.org/documents/2008/01/14/dcmi-terms/>

Date Issued: 2008-01-14

Latest Version: <http://dublincore.org/documents/dcmi-terms/>

Replaces: <http://dublincore.org/documents/2006/12/18/dcmi-terms/>

Translations: <http://dublincore.org/resources/translations/>

Document Status: This is a DCMI Recommendation.

Description: This document is an up-to-date specification of all metadata terms maintained by the Dublin Core Metadata Initiative, including properties, vocabulary encoding schemes, syntax encoding schemes, and classes.

Table of Contents

- [1. Introduction and Definitions](#)
- [2. Properties in the /terms/ namespace](#)
- [3. Properties in the legacy /elements/1.1/ namespace](#)
- [4. Vocabulary Encoding Schemes](#)
- [5. Syntax Encoding Schemes](#)

Done

Texas A&M University Digital Library Metadata Policy

Describing a Resource (Metadata) – Digital Libraries - Mozilla Firefox

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http://digital.library.tamu.edu/services/scholarly-communication/texas-a-m-repository-policies-and-procedures/met

Texas A&M University Libraries DCMI Metadata Terms Digital Preservation (Library of Congress) Describing a Resource (Metadata)

Ask Now

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University Libraries Digital Library Home → Services → Scholarly Communication Resources → Repository Policies and Procedures → Describing a Resource (Metadata)

Describing a Resource (Metadata)

Listed below are the fields you can use to describe an item in the Texas A&M University Repository. By adding more descriptive information (metadata), your work will be easier to find and cite.

Standard fields available during the item submission process:

Field Name	Definition/Scope Note	Element
Authors	A person, organization, or service primarily responsible for the intellectual content of the item.	dc.creator
Title	Main title for the item.	dc.title
Other Titles	Alternative title for the item, such as a translated or abbreviated form of the title.	dc.title.alternative
Date of Issue	Date of original publication, presentation, or distribution.	dc.date.issued
Publisher	Entity responsible for publication, distribution, or imprint; or publisher of the previously issued instance of the work.	dc.publisher
Citation	Bibliographic citation for the item.	dc.identifier.citation
Series/Report No.	Series name and number for the item.	dc.relation.ispartofseries
Identifiers	Select from available standard identifiers, and enter the item's number.	dc.identifier.____ (qualified by selected identifier)
Type	Nature, genre, or form of content.	dc.type
Language	Current ISO standard for language of intellectual content, including country codes (e.g. "en_US").	dc.language.iso
Subject Keywords	A keyword or phrase that describes the content of the item.	dc.subject
Abstract	Abstract or summary of the item.	dc.description.abstract
Sponsors	A person or group that funds or sponsors the development of the work.	dc.contributor.sponsor
Description	Descriptive information not defined in other fields. (number of pages in a document, etc.)	dc.description

Done

Metadata Elements

- Authors
 - dc.creator
- Title
 - dc.title
- Date of Issue
 - dc.date
- Publisher
 - dc.publisher
- Citation
 - dc.bibliographicCitation

Metadata Elements

- Series/Report Number
 - dc.relation.ispartofseries
- Identifiers
 - dc.identifier
- Type
 - dc.type
- Language
 - dc.language

Describe Item with Metadata

- Subject Keywords
 - dc.subject
 - dc.subject.nalt
- Abstract
 - dc.abstract
- Sponsors
 - dc.contributor.sponsor
- Description
 - dc.description

Digital Repository Basics

- Software – Commercial or Open Source
- Just one “service” of a Digital Library
 - Repository
 - Peer Reviewed Open Access E-Journals
 - Blogs
 - Wikis
 - Scholarly communications website

Digital Repository Software

- Open Source
 - DSpace
 - Eprints
 - Fedora
 - Greenstone
- Commercial
 - CONTENTdm
 - Digital Commons
 - DigiTool

Submitting Items to the Repository

- Components of a Submission
 - Item Metadata
 - Archival Files
 - Derivative files for viewing over the web
- License
- Quality Control Check
- Approval and “Publication” to go live
- Post Publication Editing

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http://repository.tamu.edu/

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- By Issue Date
- Authors
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▼ My Account

Login



Wheelan Collection of Mexican Revolution Photographs [+]
About this image

What is a Repository?

The Texas A&M Repository is a digital service that collects, preserves, and distributes the scholarly output of the university. The repository facilitates open access scholarly communication while preserving the scholarly legacy of Texas A&M faculty. The repository contains many types of content, including electronic theses and dissertations, faculty papers and books, technical reports, conference proceedings, and digitized maps.

Getting Started with the Repository

Communities in the Repository

Select a community to browse its collections.

- Colleges & Schools
- Programs, Centers, and Institutes
- Special Collections
- State Agencies
- Texas A&M University Libraries
- Texas A&M University Press Consortium

Done

Login to Repository Account

The screenshot shows a Mozilla Firefox browser window displaying the Texas A&M University Central Authentication System login page. The browser's address bar shows the URL: <https://netid.tamu.edu/cas/login?service=https://idp.tamu.edu/shibboleth-idp/SSO%3Fshire%3Dhttps%3A%2F%2F>. The page features a dark red header with the text "Texas A&M University CENTRAL AUTHENTICATION SYSTEM". Below the header are three navigation tabs: "Aggie Gateway", "Change Your NetID Password", and "Forgot Your Password?". The main content area is titled "Please Log In!" and contains two input fields for "NetID:" and "Password:". To the right of these fields is a red "Log in" button. Further right, there is a "New User?" section with an "Activate your NetID" button. At the bottom of the page, there is a footer with the TAMU logo and a list of links: "- CIS Home | TAMU Home | Webmaster -", "- Privacy Statement | Accessibility Policy -", "- State of Texas | Compact With Texans | Statewide Search -", and "- State Linking Policy | Open Records/Public Information -". The browser's status bar at the bottom shows "Done" and the URL "netid.tamu.edu".

Texas A&M University
CENTRAL AUTHENTICATION SYSTEM

Aggie Gateway | Change Your NetID Password | Forgot Your Password?

Please Log In!

NetID:

Password:

Log in

New User?
Activate your NetID

You have requested access to a site that requires TAMU NetID authentication.

This computer system and data herein are available only for authorized purposes by authorized users. Use for any other purpose may result in administrative/disciplinary actions or criminal prosecution against the user. Usage may be subject to security testing and monitoring. Applicable privacy laws establish the expectations of privacy.

For additional information please see: <http://cis.tamu.edu/tos/>

For security reasons, quit your web browser when you are finished accessing services that require authentication. If you have any problems with activation or logging in with your NetID, please contact the Help Desk at (979) 845-8300.

- CIS Home | TAMU Home | Webmaster -
- Privacy Statement | Accessibility Policy -
- State of Texas | Compact With Texans | Statewide Search -
- State Linking Policy | Open Records/Public Information -

netid.tamu.edu

Go To Submissions Page

Update Profile - Mozilla Firefox

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https://repository.tamu.edu/profile

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Identify

Email Address: r-mcgeachin@tamu.edu

First Name:

Last Name:

Contact Telephone:

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You may subscribe to collections to receive daily e-mail alerts of new items added. You can subscribe to as many or as few collections as you wish. Another alternative to daily e-mail alerts is to use the RSS feeds available for all collections.

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Submissions & Workflow - Mozilla Firefox

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<input type="checkbox"/>	Submission being edited	Factors Influencing the Prices Received for Texas ...	Texas Agricultural Experiment Station Bulletin	email: Jennifer Blair
<input type="checkbox"/>	Submission being edited	Alamo Oats.	Texas Agricultural Experiment Station Bulletin	email: Jennifer Blair
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<input type="checkbox"/>	Submission being edited	Annual Report of the Feed Control Service, 1953-54 ...	Texas Agricultural Experiment Station Bulletin	email: Jennifer Blair
<input type="checkbox"/>	Submission being edited	Analyses of Commercial Fertilizers Sold During 195 ...	Texas Agricultural Experiment Station Bulletin	email: Jennifer Blair
<input type="checkbox"/>	Submission being edited	Relation of Soils, Rainfall and Grazing Management ...	Texas Agricultural Experiment Station Bulletin	email: Jennifer Blair

Tasks in the pool

Task Item Collection Submitter

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Authors
Dates

Texas Agricultural Experiment Station Bulletin

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Halick, John V.; Richardson, L. R. (Texas Agricultural Experiment Station, 1952)
[more]

Effect of Enrichment on the Thiamine, Riboflavin and Niacin of Corn Meal and Grits as Prepared for Eating

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McGeachin, Robert B. (Haworth Press, 2004)

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C775 Pricklypear - Good or Bad?

	B	C	D	
766	Southern, John H. (John Hoyle)	Farm Land Market Situation in the Southwestern State	Bulletin / Texas Agricultural Experiment Station ; no. 797.	Texas Agricult
767	Magee, A. C. (Aden Combs)	Silo Construction Costs and Silage Production Practic	Bulletin / Texas Agricultural Experiment Station ; no. 798.	Texas Agricult
768	Thompson, Uel D.	Slaughter Calf Production.	Bulletin / Texas Agricultural Experiment Station ; no. 799.	Texas Agricult
769	Walker, A. H.	More Grass from Controlling Trees and Brush with Che	Bulletin / Texas Agricultural Experiment Station ; no. 800.	Texas Agricult
770	Bonnen, C. A.; Ward, J. M.	Some Economic Effects of Drouth on Ranch Resource	Bulletin / Texas Agricultural Experiment Station ; no. 801.	Texas Agricult
771	Wiese, A. F.; Rea, H. E.	Bindweed Control in the Panhandle of Texas.	Bulletin / Texas Agricultural Experiment Station ; no. 802.	Texas Agricult
772	Paulson, W. E.	Income and Cost Analysis: Cooperative Cotton Gins ar	Bulletin / Texas Agricultural Experiment Station ; no. 803.	Texas Agricult
773	Grimes, Mary Anna; Werman, Carc	Serviceability of Shirts Made from Cotton of Two Variet	Bulletin / Texas Agricultural Experiment Station ; no. 804.	Texas Agricult
774	Riewe, Marvin E.; Smith, J. C.	Effect of Fertilizer Placement on Perennial Pastures.	Bulletin / Texas Agricultural Experiment Station ; no. 805.	Texas Agricult
775	Hoffman, G. O.; Darrow, R. A.	Pricklypear - Good or Bad?	Bulletin / Texas Agricultural Experiment Station ; no. 806.	Texas Agricult
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795		Handbook: County Program Building for Texas Agricult	Bulletin / Texas Agricultural Experiment Station ; no. 826.	Texas Agricult
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Authors:

Last name, e.g. *Smith* First name(s) + "Jr", e.g. *Donald Jr*

McGeachin, Robert B.

Title:

AgNIC Pre-conference
2009
"If It's Digital and In
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Come"

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Date of Issue:

2009 April
Year Month
21
Day

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Multiple titles: No

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Describe Item

Authors: McGeachin, Robert B.

Title: AgNIC Pre-conference 2009 "If It's Digital and In Google - Then They Will Come"

Date of Issue: 2009-04-21

Publisher: -

Citation: -

Series/Report No.: -

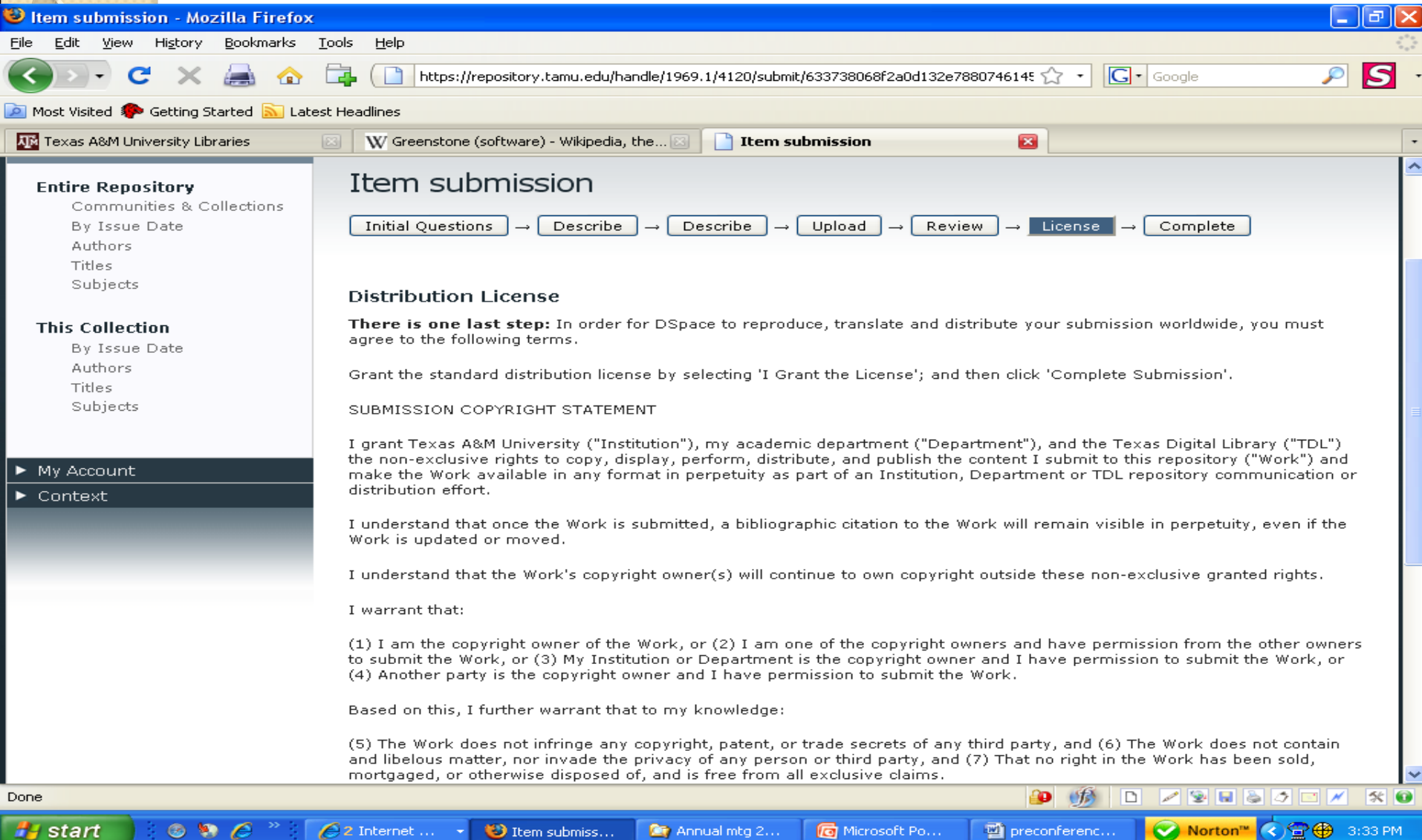
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<input type="checkbox"/>	Submission being edited	Use of Irrigation Water on the High Plains.	Texas Agricultural Experiment Station Bulletin	email: Donna Benson
<input type="checkbox"/>	Submission being edited	Fiber Characteristics and Spinning Performance of ...	Texas Agricultural Experiment Station Bulletin	email: Donna Benson
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Item submission

Title: Pricklypear - Good or Bad?

Author: Darrow, R. A.; Hoffman, G. O.

Description: 8 pg

Publisher: Texas Agricultural Experiment Station

URI:

Date: 1955

Files in this item

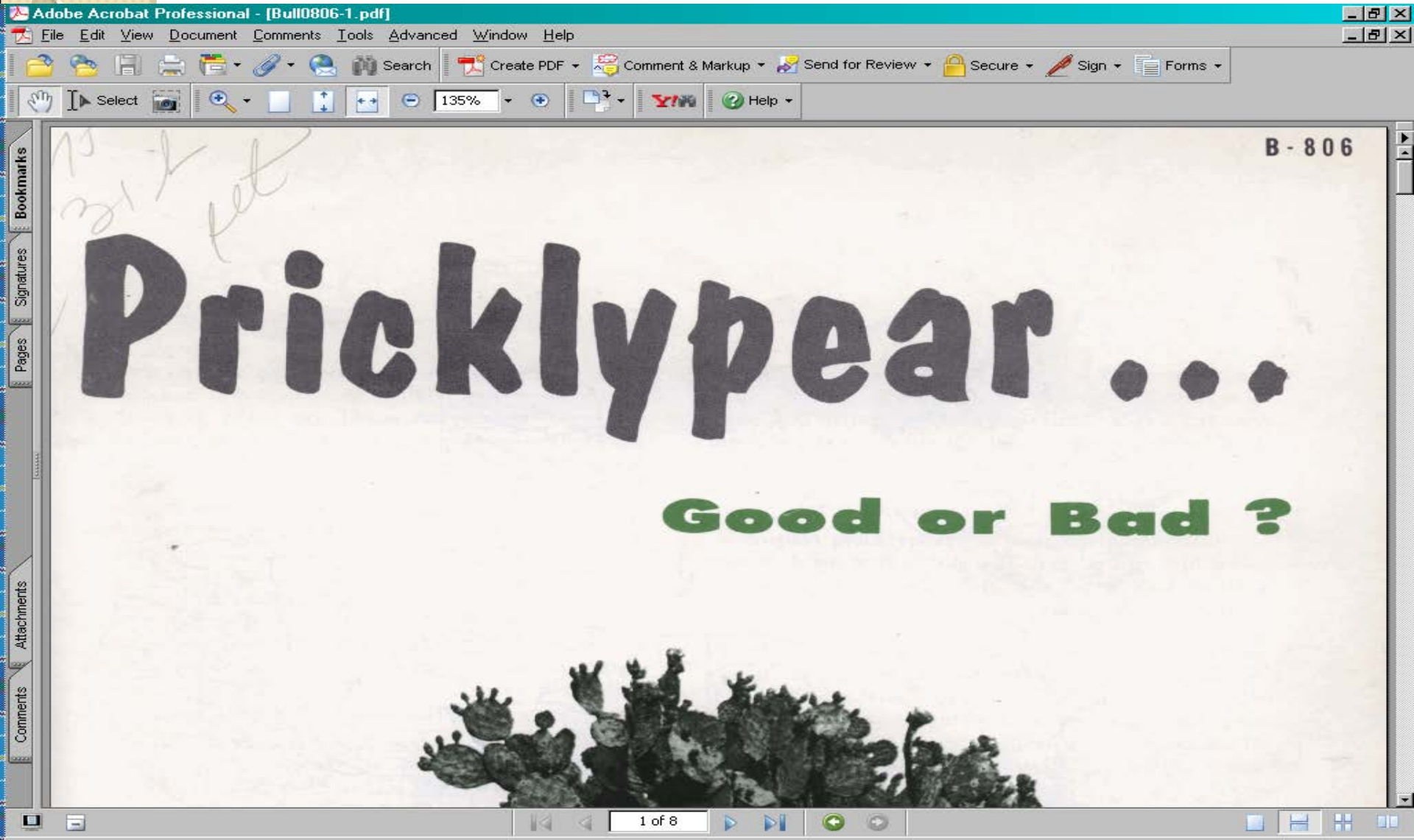
Files	Size	Format	View
b0806 0001.tif	87.04Mb	image/tiff	View/Open
b0806 0002.tif	87.04Mb	image/tiff	View/Open
b0806 0003.tif	29.04Mb	image/tiff	View/Open
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b0806 0005.tif	87.04Mb	image/tiff	View/Open
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- Check for all image files
- Examine PDF version
 - Check for all pages in order and proper orientation
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Editor Examines Item Submission – PDF



Editor Examines Item Submission – PDF Indexing

The screenshot displays the Adobe Acrobat Professional interface. The main window shows a PDF document titled "Pricklypear – Good or Bad?" by G. O. HOFFMAN and R. A. DARROW. The document text is as follows:

Pricklypear has been used as livestock feed for more than a century. It usually is considered an undesirable plant on Texas rangelands, but does have some economic value as supplemental forage for cattle and sheep during winter and drought periods. Pricklypear has the unique ability of storing water in its flattened-fleshy stems. This water reserve enables the plant to withstand long drought periods. During droughts and range overuse, pricklypear density increases as grass cover lessens. With improved grazing management and grass conditions, pricklypear density decreases because of competition from good grass cover. A grazing management system that allows desirable grasses to increase should control pricklypear once the original infestation is controlled.

Several species of the genus, *Opuntia*, are called pricklypear. One or more species exist in almost every vegetational area of the State, Figure 1. The most common and widespread pricklypears known to Texas ranchmen are engelmann, *Opuntia engelmanni*, nopal, *Opuntia lindheimeri*, and plains, *Opuntia polyacantha*. Included in the same group are several types of chollas of which *Opuntia leptocaulis*, and cholla, *Opuntia imbricata*, provide the greatest problems on Texas rangelands. Dog cactus, *Opuntia schottii*, is injurious to grazing animals, particularly sheep and goats.

Engelmann pricklypear is common in the Edwards Plateau, Trans-Pecos, Rolling Plains and High Plains areas. It is an erect plant that may grow as high as 6 feet, but normally is never tree-like. Engelmann pricklypear pads are large and

are bright yellow. The fruits, called tuna, are large, dark purple and can be made into a palatable and attractive colored syrup. Wildlife relish the ripe tunas. This species is easily confused with other pricklypears of similar growth habits and form. Figure 2 shows the typical growth habit of engelmann pricklypear.

Nopal pricklypear is extremely variable in growth form and habits. It may be low and wide-spreading or tree-like, up to 12 feet tall, with a definite cylindrical trunk. Nopal pricklypear is found in the South Texas Plains, Blackland Prairies, Edwards Plateau, Trans-Pecos, Rolling Plains, High Plains and, to a limited extent, on the Gulf Prairies. The flowers are beautifully colored, varying from yellow to red. Earlyday Indians used the young tender pads as food. The tunas can be made into a tasty jelly. Wildlife and even livestock like the ripe tunas. Typical growth characteristics and habits of nopal pricklypear are shown in Figure 3.

The plains pricklypear is limited primarily to the Rolling and High Plains. This pricklypear is low growing, usually two pads tall, and forms small clumps. Generally, plains pricklypear is overgrown with grass when range has been managed properly. Figure 4 shows a typical growth habit of plains pricklypear.

Dog cactus, also called clavellina, is limited to the South Texas Plains, Edwards Plateau and the Trans-Pecos areas. The plants are prostrate and form dense masses 10 to 50 feet square. These masses are impenetrable and a great nest to graz-

The right-hand panel shows the search results for the term "pricklypear":

Finished searching for:
pricklypear
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Results:

- Pricklypear has been used as livestock feed
- periods. Pricklypear has the unique ability of
- pricklypear density increases as grass cover
- conditions, pricklypear density decreases be
- control pricklypear once the original infestat
- pricklypear. One or more species exist in all
- widespread pricklypears known to Texas ra
- Engelmann pricklypear is common in the Etlv
- Engelmann pricklypear pads are large and n
- Englemann pricklypear. and R. A. DARRO W
- other pricklypears of similar growth habits a
- engelmann pricklypear. Nopal pricklypear is
- Nopal pricklypear is extremely variable in gr
- Nopal pricklypear is found in the South Texa
- nopal pricklypear are shown in Figure 3. The

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Table 1. Monthly distribution of rainfall at Lubbock, 1932-51¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1932	.93	1.09	.04	1.84	2.37	5.66	1.90	3.15	3.41	1.29	T	2.48	24.16
1933	.37	.95	.02	.06	2.97	.21	1.36	2.19	.71	.42	.99	.06	10.31
1934	.06	.06	1.98	1.08	1.26	.28	.65	1.66	1.86	.28	.55	T	9.72
1935	.15	.60	.89	.04	3.49	2.57	1.25	1.69	3.02	1.22	2.04	.33	17.29
1936	1.08	.02	.59	.92	5.86	.92	1.05	.13	13.93	1.52	.74	.21	26.97
1937	.26	.01	1.81	2.01	4.00	3.12	1.32	2.06	3.85	3.22	.07	.52	22.25
1938	.91	1.18	.49	.14	1.99	5.89	4.01	.47	.63	.51	.27	.03	16.52
1939	2.45	.19	.09	.28	1.82	.67	1.73	2.75	.01	.94	.18	.60	11.71
1940	.23	1.97	T	1.84	1.74	2.06	T	1.57	.73	1.07	2.35	.20	13.76
1941	.55	.61	3.56	2.23	12.69	4.13	3.68	1.85	4.47	5.89	.17	.72	40.55
1942	.04	.18	.51	3.25	.35	1.74	2.58	4.97	7.61	3.39	.01	2.80	27.33
1943	.04	.02	.25	.53	2.71	2.37	3.17	T	1.16	.10	.62	1.87	12.84
1944	1.28	1.36	1.09	.84	3.03	1.75	2.93	2.37	3.73	.80	1.72	1.64	22.54
1945	.69	.39	.10	.46	.46	.36	3.08	2.17	2.22	2.26	.27	.32	12.78
1946	1.18	.15	.76	.07	1.49	2.72	.58	3.55	3.59	4.67	.44	1.04	20.24
1947	.73	.02	.69	1.06	6.35	1.56	1.06	.06	.08	.37	1.43	.52	13.93
1948	.11	1.59	.22	.48	1.91	1.36	1.22	.31	1.08	1.09	.02	.10	9.49
1949	3.67	.38	.78	1.78	6.95	4.62	2.47	2.36	4.87	1.02	.00	.39	29.29
1950	.23	.07	.00	.68	2.51	.77	2.67	1.40	2.24	.29	.03	.02	10.91
1951	.21	.72	.61	.55	2.61	1.91	1.92	3.93	.50	.64	.13	.00	13.73
Av.	.76	.58	.72	1.01	3.33	2.23	1.93	1.93	2.98	1.55	.60	.69	18.32

¹Data from Weather Bureau, U. S. Department of Commerce.

— 7 —

THE PROBLEM

Lack of soil moisture has been the principal factor limiting production on the High Plains. Average annual rainfall at Lubbock is slightly more than 18 inches. This is near the

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- Reject Item (removes Item from Repository)
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- Return Task to Pool of Submissions

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Item submission - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://repository.tamu.edu/handle/1969.1/2829/workflow

yearbook of agriculture

Item submission Google Titles List ANR Repository National Agricultural Library Di...

Authors
Titles
Subjects

My Account
Context

Files in this item

Files	Size	Format	View
b0806_0001.tif	87.04Mb	image/tiff	View/Open
b0806_0002.tif	87.04Mb	image/tiff	View/Open
b0806_0003.tif	29.04Mb	image/tiff	View/Open
b0806_0004.tif	87.04Mb	image/tiff	View/Open
b0806_0005.tif	87.04Mb	image/tiff	View/Open
b0806_0006.tif	29.04Mb	image/tiff	View/Open
b0806_0007.tif	29.04Mb	image/tiff	View/Open
b0806_0008.tif	28.74Mb	image/tiff	View/Open
<u>Bull0806.pdf</u>	35.02Mb	application/pdf	View/Open

The following license files are associated with this item:

Original License
[Show full item record](#)

Actions you may perform on this task:

If you have reviewed the item and it is suitable for inclusion in the collection, select "Approve". [Approve item](#)

If you have reviewed the item and found it is **not** suitable for inclusion in the collection, select "Reject". You will then be asked to enter a message indicating why the item is unsuitable, and whether the submitter should change something and resubmit. [Reject item](#)

Select this option to change the item's metadata. [Edit metadata](#)

Return the task to the pool so that another user may perform the task. [Return task to pool](#)

[Cancel](#)

Publishes Item in Repository

Texas Agricultural Experiment Station Bulletin - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://repository.tamu.edu/handle/1969.1/2829

yearbook of agriculture

Texas Agricultural Experi... Google Titles List ANR Repository National Agricultural Library Di...

Digital Library → Repository → State Agencies → Texas AgriLife Research → Texas Agricultural Experiment Station Bulletin Profile: Robert McGeachin | Logout

Search Repository Search the Repository Go

Advanced Search

▼ Browse

Entire Repository

- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

This Collection

- By Issue Date
- Authors
- Titles
- Subjects

► My Account

► Context

Texas Agricultural Experiment Station Bulletin

Browse by
Titles
Authors
Dates

Full Text Search: Go

Advanced Search

The Texas Agricultural Experiment Station (TAES) began publishing this bulletin in 1888. This collection of bulletins is being digitized and made available online at this site by the Texas A&M University Libraries for historical purposes. Funds for this digitization project have been supplied, in part, by the USDA National Agricultural Library through a Specific Cooperative Agreement. Bulletins will be added to this site as digitization progresses. For the most recent information on a topic please consult the Texas Cooperative Extension Bookstore at <http://tcebookstore.org/index.cfm>.

News

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[Submit a new item to this collection](#)

Recent Submissions

Pricklypear - Good or Bad?
Darrow, R. A.; Hoffman, G. O. (Texas Agricultural Experiment Station, 1955)
[\[more\]](#)

Done

Item in Repository

Pricklypear - Good or Bad? - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://repository.tamu.edu/handle/1969.1/86398

Pricklypear - Good or Ba... Google Titles List ANR Repository National Agricultural Library Di...

ATM | TEXAS A&M UNIVERSITY LIBRARIES | Digital

Digital Library → Repository → Texas AgriLife Research → Texas Agricultural Experiment Station Bulletin → View Item Profile: Robert McGeachin | Logout

Search Repository Search the Repository Go

▼ Browse

Entire Repository
Communities & Collections
By Issue Date
Authors
Titles
Subjects

This Collection
By Issue Date
Authors
Titles
Subjects

► My Account

▼ Context
Edit this item
Export Item

Pricklypear - Good or Bad?

Show full item record

Title: Pricklypear - Good or Bad?
Author: Darrow, R. A.; Hoffman, G. O.
Description: 8 pg
Publisher: Texas Agricultural Experiment Station
URI: http://handle.tamu.edu/1969.1/86398
Date: 1955

Files in this item

Files	Size	Format	View
b0806 0001.tif	87.04Mb	image/tiff	View/Open
b0806 0002.tif	87.04Mb	image/tiff	View/Open
b0806 0003.tif	29.04Mb	image/tiff	View/Open
b0806 0004.tif	87.04Mb	image/tiff	View/Open
b0806 0005.tif	87.04Mb	image/tiff	View/Open

Done

Post Publication Editing

The screenshot shows a Mozilla Firefox browser window with the address bar displaying `https://repository.tamu.edu/admin/item?itemID=86768`. The page title is "Item Status". The browser's address bar also shows a search for "yearbook of agriculture".

The page header includes the Texas A&M University Digital Libraries logo and navigation links: "Digital Library → Repository → Items → Item status". The user profile is identified as "Profile: Robert McGeachin | Logout".

A search bar is present with the text "Search Repository" and a "Go" button. Below the search bar, there is a "Browse" section with a "My Account" link.

The main content area is titled "Edit Item" and contains several tabs: "Item Status", "Item Bitstreams", "Item Metadata", and "View Item". The "Item Metadata" tab is currently selected.

The "Edit Item" page contains the following information:

Welcome to the item management page. From here you can withdraw, reinstate or delete the item. You may also update or add new metadata / bitstreams on the other tabs.

Item Internal ID:	86768
Handle:	1969.1/86398
Last Modified:	2009-04-14 14:25:01.432
Item Page:	http://repository.tamu.edu/handle/1969.1/86398
Item's Authorizations:	Edit Authorizations (system administrators only)
Withdrawn item from the repository:	Withdraw...
Completely expunge item:	Permanently delete (system administrators only)

[Return](#)

The footer of the page includes the text "Giving to the Libraries" and "Texas A&M University | Employment | Webmaster Legal | Comments | 979-862-3887". The browser's address bar at the bottom shows the URL: `https://repository.tamu.edu/admin/item?administrative-continue=65420f4f442a7e10505e8301707e79604266386f&submit_metadata`.

Edit Metadata

Item Metadata - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://repository.tamu.edu/admin/item?administrative-continue=65420f4f442a7e10505e8301707e79604266386f

Item Metadata Google Titles List ANR Repository National Agricultural Library Di...

ATM | TEXAS A&M UNIVERSITY LIBRARIES | Digital

Digital Library → Repository → Items → Item metadata Profile: Robert McGeachin | Logout

Search Repository Go

▼ Browse

Entire Repository

- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

► My Account

Edit Item

[Item Status](#) [Item Bitstreams](#) [Item Metadata](#) [View Item](#)

Add new metadata

Name:

Value:

[Language](#)

PLEASE NOTE: These changes are not validated in any way. You are responsible for entering the data in the correct format. If you are not sure what the format is, please do NOT make changes.

Metadata

Remove	Name	Value	Language
--------	------	-------	----------

Done

Add NALT Subjects

The screenshot shows a Mozilla Firefox browser window displaying the 'Item Metadata' page for a digital repository. The page header includes the Texas A&M University Digital Libraries logo and navigation links. The main content area is titled 'Edit Item' and contains a form for adding new metadata. The form has two tabs: 'Item Status' and 'Item Bitstreams'. The 'Item Metadata' tab is active, showing a dropdown menu for 'Name' with 'dc.subject.nalt' selected, and a text input field for 'Value' containing 'Opuntia aurantiaca'. A 'Language' dropdown is also visible. Below the form is an 'Add new metadata' button and a 'PLEASE NOTE' warning. At the bottom, there is an 'Update' button and a 'Return' button. A table with columns 'Remove', 'Name', 'Value', and 'Language' is partially visible at the bottom of the page.

Item Metadata - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://repository.tamu.edu/admin/item?administrative-continue=65420f4f442a7e10505e8301707e79604266386f

yearbook of agriculture

Item Metadata Google Titles List ANR Repository National Agricultural Library Di...

ATM | TEXAS A&M UNIVERSITY LIBRARIES | Digital

Digital Library → Repository → Items → Item metadata Profile: Robert McGeachin | Logout

Search Repository Go

Advanced Search

▼ Browse

Entire Repository

- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

► My Account

Edit Item

Item Status Item Bitstreams Item Metadata View Item

Add new metadata

Name:

Value:

PLEASE NOTE: These changes are not validated in any way. You are responsible for entering the data in the correct format. If you are not sure what the format is, please do NOT make changes.

Metadata

Remove	Name	Value	Language
--------	------	-------	----------

Final Item with Metadata

The screenshot shows a Mozilla Firefox browser window with the address bar displaying <https://repository.tamu.edu/handle/1969.1/86398>. The page title is "Pricklypear - Good or Bad?". The browser's address bar also shows a search for "yearbook of agriculture".

The page content includes a search bar with the text "Search Repository" and "Advanced Search". Below the search bar, there is a navigation menu with "Browse" and "My Account" options. The main content area displays the item title "Pricklypear - Good or Bad?" and a "Show full item record" link. The metadata is as follows:

- Title:** Pricklypear - Good or Bad?
- Author:** Darrow, R. A.; Hoffman, G. O.
- Description:** 8 pg
- Publisher:** Texas Agricultural Experiment Station
- Subject:** mechanical weed control, phenoxyacetic herbicides, Opuntia polyacantha, chemical control, proximate composition, geographical distribution, Opuntia engelmannii, Opuntia engelmannii var. lindheimeri
- URI:** <http://handle.tamu.edu/1969.1/86398>
- Date:** 1955

Below the metadata, there is a section titled "Files in this item" which contains a table with the following data:

Files	Size	Format	View
b0806 0001.tif	87.04Mb	image/tiff	View/Open
b0806 0002.tif	87.04Mb	image/tiff	View/Open
b0806 0003.tif	29.04Mb	image/tiff	View/Open

Access to Items in Repository

- Open Archives Initiative (OAI)
Harvestable Metadata
- Makes item records harvestable by web crawlers
- Items indexed by many search engines
 - Commercial – Google, Yahoo, etc.
 - Specialized searches – AgOAI, NDLA, etc.

Commercial Search Engines

- Google
 - Search -- site:repository.tamu.edu
"agricultural experiment station"
- Yahoo
 - Advanced Search – limit to only search in this domain/site

Google Search Results Example

The screenshot shows a Mozilla Firefox browser window with the following details:

- Address Bar:** `http://www.google.com/search?hl=en&q=site%3Arepository.tamu.edu+\"agricultural+experiment+station\"&btnG=Gc`
- Search Bar:** `site:repository.tamu.edu \"agricultural experim`
- Search Results:** Results 1 - 10 of about 498 from repository.tamu.edu for "agricultural experiment station". (0.17 seconds)

The search results list the following items:

- Texas Agricultural Experiment Station Bulletin**
The Texas **Agricultural Experiment Station** (TAES) began publishing this bulletin in 1888. This collection of bulletins is being digitized and made available ...
repository.tamu.edu/handle/1969.1/2829 - 20k - [Cached](#) - [Similar pages](#)
by DT Killough
- General Information Relating to the Texas Agricultural Experiment ...**
Publisher: Texas **Agricultural Experiment Station**. Subject: experiment station financial statements agricultural programs and projects laws and regulations ...
repository.tamu.edu/handle/1969.1/2860 - 17k - [Cached](#) - [Similar pages](#)
- Browsing Texas Agricultural Experiment Station Bulletin by Title**
Cory, V. L. (Vivian L.) (Texas **Agricultural Experiment Station**, 1927) ... Bayles, John J. (John Jasper) (Texas **Agricultural Experiment Station**, 1932) ...
repository.tamu.edu/handle/1969.1/2829/browse?type=title - 46k - [Cached](#) - [Similar pages](#)
- Browsing Texas Agricultural Experiment Station Bulletin by Issue Date**
Pammel, L. H. (Louis Herman) (Texas **Agricultural Experiment Station**, 1888) General Information Relating to the Texas **Agricultural Experiment Station**. ...
repository.tamu.edu/handle/1969.1/2829/browse?type=dateissued - 45k - [Cached](#) - [Similar pages](#)
- Sixth Annual Report of the Texas Agricultural Experiment Station ...**
Publisher: Texas **Agricultural Experiment Station**. Subject: Texas cattle fever meteorology agricultural programs and projects grasshoppers livestock feeding ...
repository.tamu.edu/handle/1969.1/2914 - 36k - [Cached](#) - [Similar pages](#)
by JH Connell - [All 4 versions](#)
- Browsing Texas Agricultural Experiment Station Bulletin by Subject ...**

Done

Yahoo Search Results Example

The screenshot shows a Mozilla Firefox browser window with the title "beef cattle - Yahoo! Search Results - Mozilla Firefox". The address bar contains the URL "http://search.yahoo.com/search?n=10&ei=UTF-8&va_vt=any&vo_vt=any&ve_vt=any&vp_vt=any&vd=all&vf=all&v". The search bar contains the text "beef cattle" and a "Search" button. The page displays search results for "beef cattle" with a "Restricted to: repository.tamu.edu" filter. The results include:

- Also try:** [beef cattle breeds](#), [beef cattle prices](#), [More...](#)
- [Dried Citrus Pulp in Beef Cattle Fattening Rations.](#)
Dried Citrus Pulp in **Beef Cattle** Fattening Rations. Show full item record. Title: Dried Citrus Pulp in **Beef Cattle** Fattening Rations. Author: Jones, J. M. (John ...
[repository.tamu.edu/handle/1969.1/86197](#) - [Cached](#)
- [Beef Cattle Investigations in Texas, 1888-1950.](#)
Beef Cattle Investigations in Texas, 1888-1950. Author: ... **beef cattle**. field experiments. analytical methods. crossing. animal reproduction. progeny testing ...
[repository.tamu.edu/handle/1969.1/86365](#) - [Cached](#)
- [Browsing by Issue Date](#)
The **Cattle** Tick: Biology, Preventive Measures. ... Effects of Cotton Seed and Cotton Seed Meal on Butter, **Beef** Tallow, Lard and Sheep Suet. ...
[repository.tamu.edu/browse?rpp=20&...&sort_by=2&order=ASC&offset=20](#) - [Cached](#)
- [Economic impact of country-of-origin labeling in the U.S. beef industry](#)
... retail, wholesale, fed **cattle**, and feeder **cattle** sectors of the **beef** industry. A significant cost burden to the **beef** industry was shown by the weighted average ...
[repository.tamu.edu/handle/1969.1/3242](#)
- [Fattening Beef Calves on Milo Grain Prepared in Different Ways.](#)
Fattening **Beef** Calves on Milo Grain Prepared in Different Ways. Author: ... **beef cattle**. feeds. Sorghum bicolor. URI: [http://handle.tamu.edu/1969.1/4521](#). Date: 1937 ...
[repository.tamu.edu/handle/1969.1/4521](#)

The status bar at the bottom of the browser window shows "Done".

Agriculture OAI Searches

- AgOAI
 - <http://www.agnic.org/agoai>
- National Digital Library for Agriculture
 - <http://www.nal.usda.gov/ndla/>

AgOAI Example

AgOAI - AgNIC Alliance - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.agnic.org/agoai

Google

Texas A&M University Libraries Google LibCat (TAMU Libraries Catalo... AgOAI - AgNIC Alliance http://www.brazosuu.org/

Search

AgNIC Agriculture Network Information Center

Home | About | Partners | Browse | News | Calendar | AgOAI | Toolkit | Contact Us

pricklypear

Search

SOURCES

- African Journals Online
- AgSpace
- Aquatic Commons
- Auburn University Digital Library
- Library of Congress American Memory
- MINDS @ UW
- Organic Eprints
- Programa CyberTesis. Universidad de Chile
- Publication of Archival, Library and Museum Materials (PALMM)
- Purdue e-Pubs
- ScholarSpace at University of Hawaii at Manoa
- The Digital Library for Earth System Education (DLESE)

Record 1 of 3

Title	Vegetation response of a mesquite-mixed brush community to aeration.
Creator	Ruthven, D.C. III, Krakauer, K.L.
Identifier	http://hdl.handle.net/10113/10981
Contributor	USDA, ARS
Language	eng
Type	article
Provider	AgSpace

Record 2 of 3

Title	Prickly-pear, Cactus
Creator	Caroline R. Dean
Identifier	http://content.lib.auburn.edu/u/?flora,61
Provider	Auburn University Digital Library

Record 3 of 3

Title	Isolation and characterization of a reserve protein from the seeds of <i>Opuntia ficus-indica</i> (Cactaceae)
Creator	Uchoa A.F., Souza P.A.S., Zarate R.M.L., Gomes-Filho E., Campos F.A.P.
Identifier	http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0100-879X199800600005
Identifier	http://www.doaj.org/doaj?func=openurl&genre=article&issn=0100879X&ddate=1998&volume=31&issue=6&page=757
Provider	DOAJ-Articles

Done

National Digital Library for Agriculture Example

NAL Digital Library Prototype 3.0 - Result List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://ndla.deepwebtech.com/ndla/resultList.html?ssid=6f75fd76:120a59ffd8e:-63af&startPosition=0&refresh=true

yearbook of agriculture

Pricklypear - Good or B... site.repository.tamu.ed... AgDAI - AgNIC Alliance ANR Repository NAL Digital Library... Repository



NATIONAL DIGITAL LIBRARY FOR AGRICULTURE

Home About NDLA Partners Help Contact Us

This design concept Web site is a gateway to information from 48 content partners

You are here: Home / Search Results

pricklypear Powered by **explorit** [Advanced Search](#) [Preferences](#) ?

Your search: **pricklypear** 47 of 47 sources complete.

Page: Results 1 - 25 of 64

View Results by:

- 1  **Pricklypear management in south Texas.**
Hanselka, C.W.; 1994
AGRICOLA Articles
- 2  **Pricklypear cactus control in western South Dakota.**
Johnson, J.R.; 1986
AGRICOLA Articles
- 3  **Pricklypear, good or bad / G.O. Hoffman, A.H. Walker, R.A. Darrow.**
Hoffman, Garlyn O. (Garlyn Odell); 1955
AGRICOLA Books
- 4  **pricklypear cactus, *Opuntia macrorhiza* (Caryophyllales: Cactaceae ...**
Forestry Images: Forest Health, Natural Resources and Silviculture Photos with pictures of insects, diseases, trees, plants, weeds, ecosystems, fire, ...
 USGS NBII (National Biological Information Infrastructure)
- 5  **Pricklypear control with fire and herbicides on the Texas Rolling Plains.**
Blair, B.K.; 1993

Done

Access to Items in Repository

- Repository search and browse
 - Title
 - Collection
 - Date
 - Author
 - Subjects
- Repository assigns a unique URI for perpetual access
 - <http://repository.tamu.edu/handle/1969.1/2829>

Full Text Search in a Repository

Texas Agricultural Experiment Station Bulletin - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://repository.tamu.edu/handle/1969.1/2829

Texas Agricultural Experiment Sta... Google LibCat (TAMU Libraries Catalog) NAL Catalog (AGRICOLA): Brief Record ...

ATM | TEXAS A&M UNIVERSITY LIBRARIES | Digital

Digital Library → Repository → State Agencies → Texas AgriLife Research → Texas Agricultural Experiment Station Bulletin [Login](#)

Search Repository Search the Repository [Advanced Search](#)

Browse

- Entire Repository**
 - Communities & Collections
 - By Issue Date
 - Authors
 - Titles
 - Subjects
- This Collection**
 - By Issue Date
 - Authors
 - Titles
 - Subjects
- My Account**

Texas Agricultural Experiment Station Bulletin

Full Text Search:

Browse by
Titles
Authors
Dates

The Texas Agricultural Experiment Station (TAES) began publishing this bulletin in 1888. This collection of bulletins is being digitized and made available online at this site by the Texas A&M University Libraries for historical purposes. Funds for this digitization project have been supplied, in part, by the USDA National Agricultural Library through a Specific Cooperative Agreement. Bulletins will be added to this site as digitization progresses. For the most recent information on a topic please consult the Texas Cooperative Extension Bookstore at <http://tcebookstore.org/index.cfm>.

News

Copyright and License

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Recent Submissions

Pricklypear - Good or Bad?
Darrow, R. A.; Hoffman, G. O. (Texas Agricultural Experiment Station, 1955)
[\[more\]](#)

Done

Advanced Search of Repository

Advanced Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://repository.tamu.edu/handle/1969.1/2829/advanced-search

Advanced Search Google LibCat (TAMU Libraries Catalog) NAL Catalog (AGRICOLA): Brief Record ...

ATM | TEXAS A&M UNIVERSITY LIBRARIES | Digital

Digital Library → Repository → Texas AgriLife Research → Texas Agricultural Experiment Station Bulletin → Advanced Search Login

Search Repository Search the Repository Go

Browse

Entire Repository

- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

This Collection

- By Issue Date
- Authors
- Titles
- Subjects

My Account

Advanced Search

Conjunction	Search type	Search for
AND	Full Text	<input type="text"/>
AND	Full Text	<input type="text"/>
AND	Full Text	<input type="text"/>

Results/page Sort items by in order

Go

Giving to the Libraries

Texas A&M University | Employment | Webmaster
Legal | Comments | 979-862-3887

Summary Points

- Many libraries are becoming “publishers” of their public domain and archival materials in digital repositories.
- Knowledge of techniques to scan, digitize, preserve, and provide digital access to our materials is becoming a part of “information literacy” for librarians.



Questions about Repositories or Digitization?