

The Jornada

Many ideas

Many tools

High customer demand

High impact

Could be higher

How much higher?



Land Resource Management Center

Increasing impact, sustainably...



Database for Inventory, Monitoring and Assessment

Version 2.1 - 09/28/2011

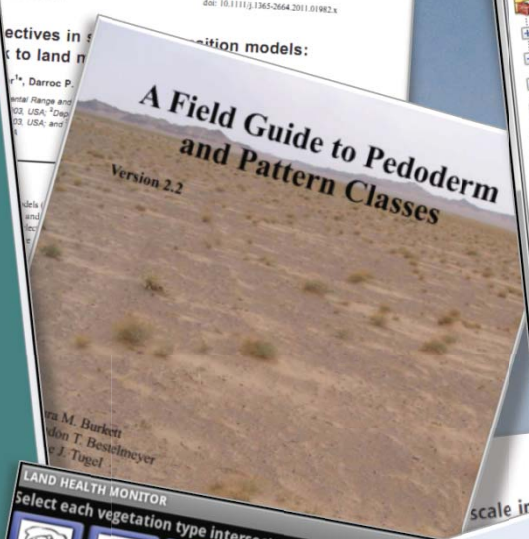
Main Menu: Help, Comments/Feedback?, Exit Access

Data Quick View

- Alder Creek (LHA)
- Andorno (LHA)
- Antelope (LHA)
- Bottle Creek (AIM)
- Buffalo (LHA)
- Calibration (6/7/11)
- Chimney Creek (LHA)
- Coyote (LHA)
- Deer Creek (AIM)
- Desert Valley (AIM)
- Happy Creek (AIM)
- Jackson Mountains (AIM)
- Kings River (LHA)
- Lower Quinn (LHA)
- Rebel Creek (LHA)
- Soldier Meadows (LHA)
- Sonoma (LHA)
- Upper Quinn (LHA)
- Willow Creek (LHA)

Buttons: New Site, New Plot, Edit Site, Enter/Edit Data, Data Status, Manage Tags

Logos: DRS, NRCS, USGS



ArcToolbox

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Editing Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Jornada Sampling Tools**
 - Random Sampling
 - Random Points with Equal Selection P
 - Random Points with Unequal Selection P
 - Stratified Random Points with Equal S
 - Stratified Random Points with Unequal S
 - Random Selections from Existing Features
 - Random Selections with Equal Probability
 - Random Selections with Unequal Probability
 - Systematic Sampling
 - Systematic Points with Random Start
- Linear Referencing Tools
- Multidimension Tools
- Network Analyst Tools
- Parcel Fabric Tools
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

LAND HEALTH MONITOR

Select each vegetation type intersected at each point.

	Tree	COUNT Sp-1 Sp-2
	Shrub	
	Sub-Shrub	CHECK IF YES
	Peren. Grass	
	Forb & Ann	Canopy 10cm-2m Over Stick
	Herb Litter	Plant Base Under Stick
	Wood Litter	
	Rock	

Filters: 10-50CM, < 10CM, No Plant

Buttons: PHOTO, CANCEL, SAVE

The Landscape Toolbox

Tools and Methods for Effective Rangeland Management

About
Who We Are
Visualization
Contact

Publications *New Look

Framework
The Landscape Toolbox is built around an integrated framework for organizing, synthesizing, and applying our growing knowledge of ecosystems to facilitate better monitoring, assessment, and

Training & Support
The USDA-ARS Jornada Experimental Range and the Idaho Chapter of The Nature Conservancy are hosting a series of one-hour web-based training seminars in 2012. Topics include the Rangeland

Toolbox Wiki
A library of abstracts describing rangeland methods, terms, and tools contributed by the scientific and management community. The abstracts will help you understand what a method can

Rangeland Methods Guide
An interactive guide to field and remote-sensing methods for rangeland science and management focusing primarily on monitoring and assessment. Simply type in a

Vision: Sustainable land management based on all available relevant data, knowledge and information, and cost-effective assessment, inventory and monitoring programs that support adaptive management and policy development and implementation.



Objective: Address agency requirements for rapidly growing training/implementation support for monitoring and assessment, including design, data collection, analysis, reporting and training service, as well as adaptation and refinement of existing tools to better meet needs.



Structure

- Customer-driven, science-supported
- Core staff + contractors (e.g. recently retired agency ‘brain trust’)
- Co-located and associated with the Jornada
 - Provides science
 - Shares staff to address clearly-defined deliverables
- Funding: agencies provide startup (BLM already committed); anticipate domestic + international



Objective: Address agency requirements for rapidly growing training/implementation support for monitoring and assessment, including design, data collection, analysis, reporting and training service, as well as adaptation and refinement of existing tools to better meet needs.



Group Trainings & Collaboration



Online Training and Resources



Video Instructions/Demonstration



Video from the [USDA-ARS Jornada Experimental Range](#)

Technical and Application References

- Bonham, C.D. 1989. Measurements for terrestrial vegetation. New York, NY: Wiley.

The image is a screenshot of a web page from the 'Rangeland Assessment and Monitoring Methods Guide'. The page title is 'Line-Point Intercept'. It includes a breadcrumb trail: 'Abstracts Wiki Home | Trace > Rangeland Assessment and Monitoring Methods Abstracts > Frequently Asked Questions > Rangeland Assessment and Monitoring Methods Abstracts > Field Methods > Line-Point Intercept'. The page has a search bar and navigation links like 'Index', 'Admin', 'Update Profile', and 'Logout'. The main content area has a 'Report a bug, broken link, or incorrect content' link. Below that is a warning: 'This abstract has not been reviewed. If you can provide a review, click here.' The author is listed as 'written by Jason Karl and Karen Colson'. There are three main sections: 'Method Type' (Cover - Quantitative), 'Other Names' (None known), and 'Description and Uses'. The 'Description and Uses' section contains a detailed paragraph about the method. To the right is a 'Table of Contents' with links to various sections like 'Line-Point Intercept', 'Method Type', 'Other Names', etc. There are 'Edit' buttons next to the 'Method Type', 'Other Names', and 'Description and Uses' sections.

Design, Collection & Analysis Tools

Database for Inventory, Monitoring and Assessment
Version 2.1 - 09/28/2011

Main Menu: Help, System Set-Up, Support Tables, Site/Plot Description, Data, Reports, Enter/View Photos, View Documents, Administrator, Administrative Functions, Data-Entry Methods (Keyboard/Mouse, Touch-Screen)

LAND HEALTH MONITOR
Select each vegetation type intersected at each point.

- Tree
- Shrub
- Sub-Shrub
- Perennial Grass
- Forb & Annual
- Herb Litter
- Wood Litter
- Rock

Assessment and Monitoring Analysis Tools

Group/Area/Date	Plot ID	Indicator	Value
GNR	5	Basal Cover	6.7
GNR	6	Basal Cover	9.2
GNR	7	Basal Cover	5.7
GNR	8	Basal Cover	8.4
GNR	9	Basal Cover	7.3
GNR	10	Basal Cover	6
GR	1	Basal Cover	4.3
GR	2	Basal Cover	5.3
GR	3	Basal Cover	4.2
GR	4	Basal Cover	3.7
GR	5	Basal Cover	4.8
GR	6	Basal Cover	2.1
GR	7	Basal Cover	0.9
GR	8	Basal Cover	2.7
GR	9	Basal Cover	1.2
GR	10	Basal Cover	1.8

Descriptive Statistics

Statistic	Value
Frequency	10
Mean	6.75
Median	6.6
Standard Error	0.466
Standard Deviation	1.475
Variance	2.176
Coefficient of Variation	0.219

Descriptive Statistics

Statistic	Value
Frequency	10
Mean	3.1
Median	3.2
Standard Error	0.495
Standard Deviation	1.565
Variance	2.449
Coefficient of Variation	0.505

LAND HEALTH MONITOR Settings:

- COUNT: Sp.1, Sp.2
- Veg Height: > 3M, 2 - 3M, 1 - 2M, 50CM - 1M, 10 - 50CM, < 10CM, No Plant
- CHECK IF YES: Canopy 10cm-2m Over Stick, Plant Base Under Stick
- Buttons: PHOTO, CANCEL, SAVE

ArcToolbox

- ArcToolbox
- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Display Tools
- Geoprocessing Tools
- Image Analyst Tools
- Map Tools
- Navigation Tools
- Reference Tools
- System Tools
- Tracking Analyst Tools
- Web Tools

Project: Jornada
Site: BlueStacks Test
Section Name: East
Plot Number: 4

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High impact

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