

2018 NRI Grazing Land Webinar I

Overview/Data Uses/Technical Support & Equipment

February 13, 2018

Eastern States: 10 EST; 9 CST

Western States: 2 CST; 1pm MST, 12pm PST, 10am HAST



Today's Presenters

- Patrick Flanagan National Statistician and Acting Resource Inventory Division Director (RID), NRCS RID
- Gary Hallbauer Soil Conservationist, NRCS National Geospatial Center of Excellence (NGCE)
- Todd Krueger Senior Systems Analyst ISU Center for Survey Statistics and Methodology (CSSM)
- Roni Lessard Agricultural Statistician, NRCS Resource Inventory Division (RID)



Agenda

- Welcome
- Field PC & WMDC
- CASI Installation & Communications with CSSM Server
- Equipment and Navigation
- What's New in 2018?
- Web-based NRI Grazing Land Applications
- Quality Assurance
- Training Sessions



Welcome

- Why are these data important?
- How Will the Data Be Used?
 - Ecological Site Descriptions
 - Sage Grouse, Monarch & Regal Butterflies, & LANDFIRE
 - NRCS State Office Applications
 - Climate Change Analysis
- Data Quality You are the key!
 - Training, Consistency, & Scope



Field PCs Windows Mobile OS Windows Mobile Device Center CASI Install / Communications Navigation with CASI

Gary Hallbauer, NGCE Fort Worth, Texas 13 February 2018



In this part of the session...

- Field PC readiness
- Windows Mobile OS tips
- Windows Mobile Device Center updates
- Installation of the CASI on the field PC
- Communication with CSSM server
- Equipment and tools
- Navigation



Field PCs supported by the CASI

- GeoXT
- Nomad 900
- Geo 6000 / 7000
- Juno 5D





- Garmin with Recon (tethered)
- New option this year Nomad 1050



Starting the season with hand held data collectors

- Get them out of storage
- Get them onto power and charge overnight
- Evaluate % charge after one full night
- Should be 100% after one full night
- If not 100% contact Support

(nri-graze-help@iastate.edu)



Is your field PC ready?

- Inspected, charged, tested?
- Screen protectors installed? Stylus condition?
- USB / power cables in good condition?





'Juice Pack' External Battery





Keep work going with resets...

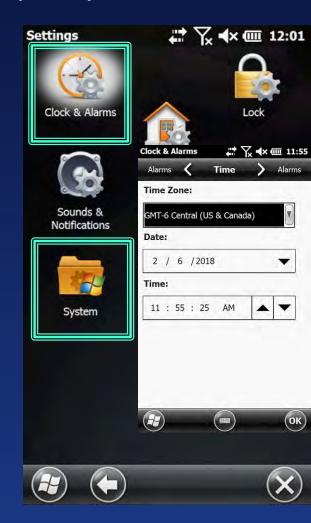
- 3 types of resets
 - Soft clears memory, stops running apps, daily use is recommended
 - Hard Same as soft but also settings
 - Factory wipes installed apps, memory, registry, all settings, all data files
- Contact Support if you need help



Windows Mobile OS important stuff

Also known as Windows Embedded Handheld (WEHH)

- Set current date and time
 - Affects time stamping of files
- Set power settings affects field usability
- Turn off Advanced Network Functionality settings
 - Affects connection to field PC
- Refer to web site for additional info





Windows Mobile power states

- Field PC is on apps running
- Field PC is suspended (sleep)
 - Apps suspended but not closed
 - Data collection suspended
- Handheld is shutdown
 - Unsaved data is lost
 - All running programs are stopped
- Storage mode (Junos)
- Battery is removed (Geo 6K/7K, Nomads)





Field PC Power Management Best Practices

- Top off charge on the way to job site and in between sites
- Minimize display timeout & backlight brightness to lowest tolerable settings
- Turn off all wireless connections
 - Bluetooth, Wi-Fi, Phone (if unit has that)



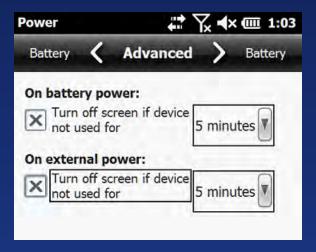




More Power Management Best Practices

- Charge every night when in use
- Remove from power when not in use
 - 1 to 2 days
- Shutdown totally when not in use
 - Greater than 2 days (but recharge every week
- Do not charge from computer (transfer data only)
- On Nomads calibrate battery







New to Windows Mobile?

- Download and view the Windows Mobile related archived PDF presentations from:
 - https://grazingland.cssm.iastate.edu/
 - Covers OS tips that are common to several types of field PC's in current use
- Contact Support with questions and issues



Windows Mobile Device Center (WMDC) application

- Approved CCE application
- Request install from CTS
- Can be downloaded and installed remotely
- See past guides for detailed information for using WMDC



New WMDC info for NRCS Windows 10 workstations in 2018

- WMDC issues and Windows 10 on Govt. workstations
 - CTS needs to install WMDC onto Windows 10 workstations
 - CTS needs to refer to IT Resources and implement a registry fix on the W10 workstation
- Once WMDC is installed and the registry fix is implemented – you should be able to install the 2018 CASI and test communications



WMDC fix procedure...

- Download a copy of the 30 November 2017 CTS News Flash and provide a copy to the CTS agent working with you
 - https://grazingland.cssm.iastate.edu/ is your source for the news flash



After the CTS / WMDC 'fix'

- Connect your Windows Mobile device to the workstation
- Attempt to run WMDC as you normally would
- Contact Support if there are still issues.



If possible – after install - have CTS as Admin . . .

- Open Connection Settings as Admin
- Uncheck...
 - 'Allow connections to...'
- Click OK button to close
 - Close WMDC, then log off as admin





If you have trouble with WMDC connections

- You may need to try several times on the initial connection – device recognition issues can occur
 - Try connecting to different USB ports
 - Try restarting the device and reconnecting
- With USB connected turn off then turn on the field PC – repeat until you see signs of activity in WMDC
- Connect as 'Guest' and never sync
 - Can't connect to NRI server if synced



Worst case WMDC connection issues

- In Windows 7 Device Manager (Admin)
 - Stop all USB ports
 - Power down computer completely
 - Turn computer back on
- On field PC
 - Soft reset
 - Hard reset (if available)
 - Factory reset (ask for assistance)



CASI Installation and Communications with CSSM Server



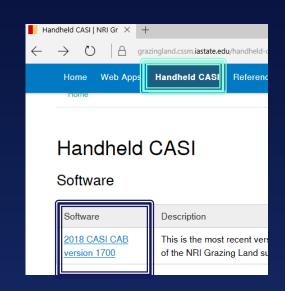
* * * Important * * *

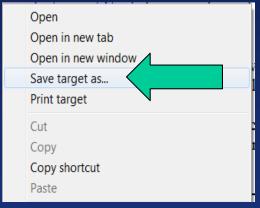
- You must install Windows Mobile Device Center on the PC workstation before you install the CASI onto the Field PC
- You must also have CTS perform the 'Fix' on Windows 10 workstations running WMDC



Downloading the CASI

- Go to download site
 - https://grazingland.cssm.iastate.edu/
- Then go to Handheld CASI tab at top of page
- Look at the first row under software
- Save the install file (CAB) to your PC
 - Right click on CAB link
 - 'Save Target As' to your desktop is easiest





In pop up window looks like:





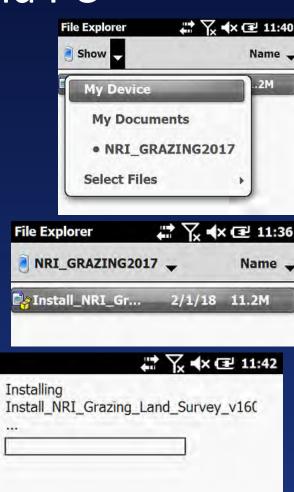
** Helpful Hint **

- Remove old versions of the CASI cabinet install files from your workstation and your field PC
 - Avoid confusion if you need to re-install the current version
- In Windows Mobile / WEHH File Explorer icon may look like a box
 NRI Grazing L...



Installing the CASI on the field PC

- Transfer the file to field PC
 - Copy / Paste to 'My Documents'
- Unplug the field PC from the computer
- Navigate to My Documents on the field PC
- On the field PC -Tap on the CAB to install





Beginning of the install...

- Status window opens with timer bar
- Right after the install starts - user is prompted to overwrite the prior version
 - Tap 'OK' to continue

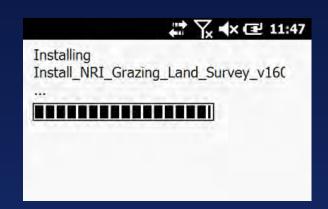
	# \\ ((((((((((
Installing	zing_Land_Survey_v16(
	zilig_Land_3divey_viot

nstallin	g NRI Grazing Land Survey v160
Installa	ation
<u> </u>	The previous version of ISU
	CSSM NRI Grazing Land Survey will be removed
	before the new one is
	installed. Select OK to
	continue or Cancel to quit.
	OK Cancel



Installation continues...

 Tap 'OK' to complete the installation



Install_NRI_Grazing_Land_Survey was successfully installed on your device.

If you need more storage space, you can remove installed programs.





Installation Results

- NRI Grazing Lands icon and shortcut should appear in the Start Menu on the Field PC
- There may be two links –
 either one will work just fine
 - Tap on the link in the Start menu to open the program





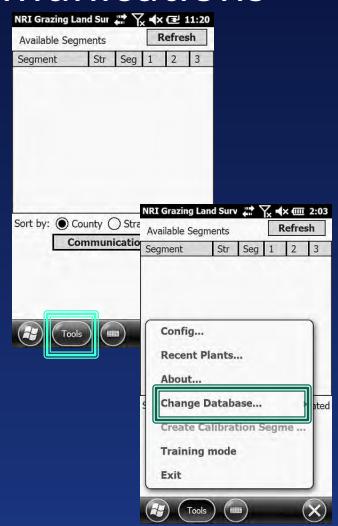
Field PC to Server Communications

- How segment point data moves from CSSM server to field PCs and back
- Must be connected through workstation (WMDC) or Wi-Fi (test first with Internet Explorer – inconsistent results)
- Contact Support for connectivity issues
- See Instructions, Appendix A, for detailed instructions



Field PC to Server Communications

- Must be 'live' not in training mode
- Communications button at bottom of screen
- Use the Tools menu to change the data base to 2018





Communications startup

- Click on the Communications button
- Register your field PC
 - Serial number
 - Primary user
 - First/Last Name
 - Email address
 - Phone, including extension
- Field PC <u>must</u> be registered with Roni Lessard (to be listed on CSSM server); do so <u>before</u> using the CASI register button

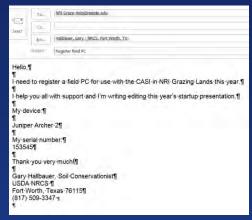




Registration with CSSM

- The server is looking for
 - Device
 - Serial number
- Email information to:

NRI-Graze-Help@iastate.edu

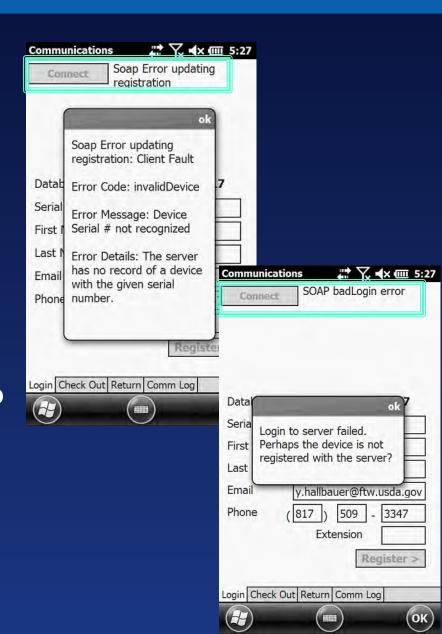






Registration fail...

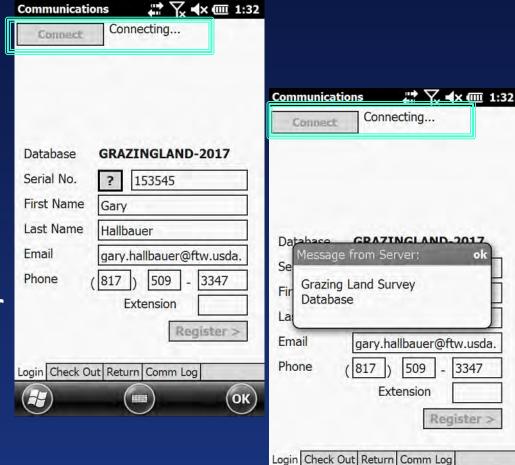
- The server does not recognize your device when you try to register
- Have you registered using the serial number and device you provided?
- The server knows...





Registration succeeds

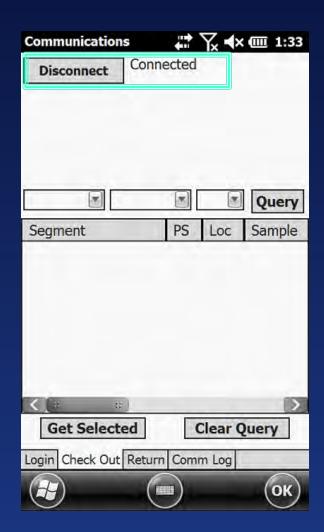
- You will see
 - A greeting from the server
 - You will be able to connect
- Connect to the server and confirm the connection is good





Confirm connection

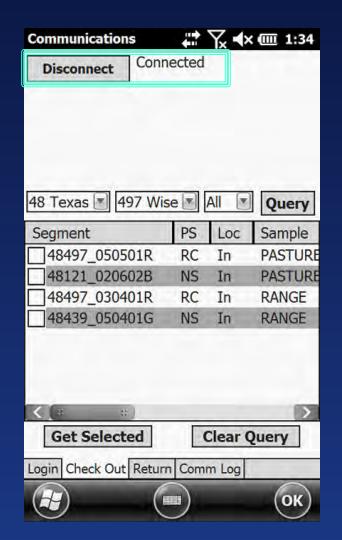
Status is 'Connected'





Confirm CASI Field PC registration

- Run a query to test
- Test all devices even those used previously
- Contact Support with issues





CASI segment check out / return

- Check Out page functions
 - Connect, Disconnect (with Server)
 - Query, Select, Clear Query // Get Selected
 - Return (enter status code)
- Details are found in the Instructions, Appendix A,
 Pgs. 1 11
- #1 Lesson Learned over last 14 years test communications and check out segments <u>well</u> <u>before</u> going to the field



Tools and Equipment



Transect set up

- Compass sighting is best (Ch. 3)
- Tape measures, 150' (Inst. Ch. 3)
 - Inspect current equipment and replace if needed
- Pins (survey arrows) Forestry Suppliers (Ch. 3)
 - Used to tie down transect ends, center, and keep tape from flapping in the wind
 - Minimum of 11, replace lost / broken, order spares









Macroplot documentation

- Digital camera (Ch. 3)
 - Check memory card and batteries, run test shots; source from Batteries Plus or on web



- Clipboard / whiteboard—transect endpoint labeling (Ch. 3)
 - Substitute other media but be sure that writing supplies are in good order and practice to make writing visible
 - See 2018 web site, Reference, Photo Protocol Labels





Landscape and soils

- Digging tools (Ch. 7)
 - Drain spades/shovels
 - Auger
- Ruler, yardstick, or tape to measure 20 inch depth
- Clinometer measuring slope











Measuring tools

- **Pasture** stick or folding ruler for height measurements (Ch. 12)
- Ensure units on the stick are readable
- Scale (weigh clipping samples (Ch. 14)
 - Inspect and check calibration











Soil Health

- Soil Stability kits (Ch. 11)
 - Check screens for corrosion, holes
 - Water (distilled demineralized)
 - Order replacement kits
 - Sold by Forestry Suppliers -\$42.85
 - Search for Stock Number 78511







Vegetation Dry Weight, Species Composition by Weight, Standing Biomass Ch. 13, Ch. 14, Ch. 15

- Vegetation sampling hoops
- Choose from
 - 1.92 sq. ft.
 - 4.8 sq. ft.
 - 9.6 sq. ft.







- Lightweight rugged and flexible hoops
 - Forestry Suppliers for sourcing



Find the segment

Navigate to the point



Finding segments and points

- Use list of segments and coordinates to:
 - Review using the new Grazing Lands segment web mapping application
 - Note: Imagery may not be current
 - Prepare supplemental maps from the web mapping application
 - Use supplemental maps to arrive at 'Closest Point of Approach'
 - Use the web mapping application to determine best routes between segments



Prepare to navigate to point

- Reference Instructions, Ch. 3
 - Open point, Location protocol, and fill in required info
 - For Field Location
 - Choose Navigate NMEA
 - Reset Serial to device or Manual setup if needed
 - See Ch. 3 for Legacy Field PC setup
 - Contact Support with issues





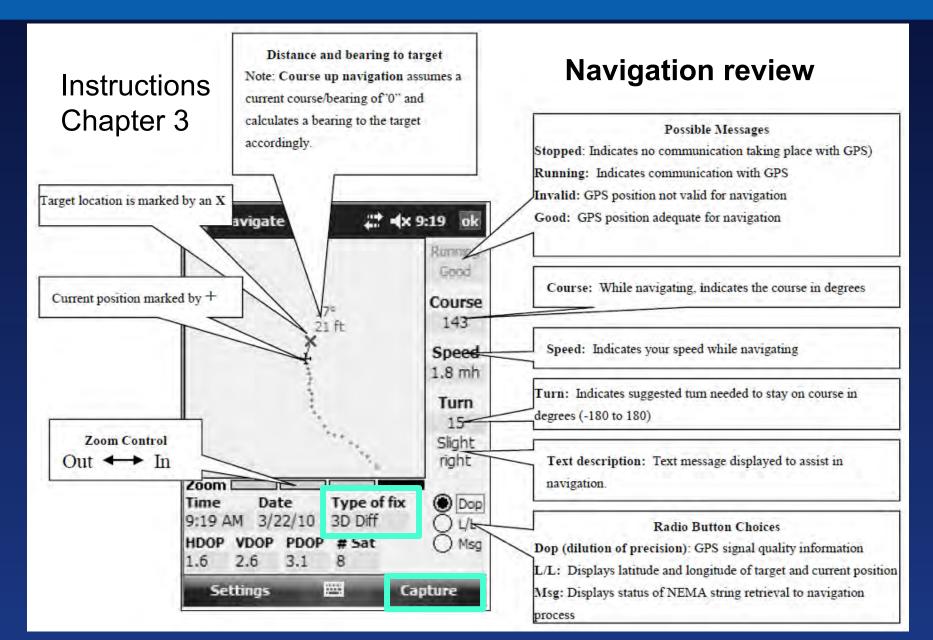
Validate the GPS signal

- 'Running' status CASI receiving data
- 'Invalid' data no positions
- Use Msg radio button to view data streaming
- Contact Support with issues



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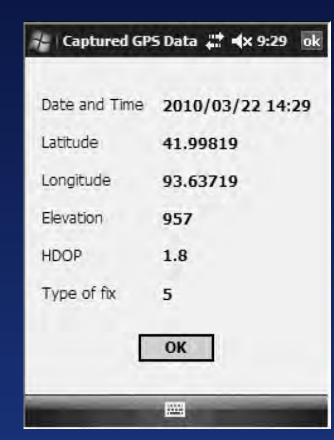






Capturing the point

- Use the Distance indicator to come as close as possible (<15 feet) to the point
- Tap Capture button in lower right corner of the Navigation screen
- GPS Capture window will open, tap OK if acceptable



Tap Save when you are returned to the Location screen



Wrapping up navigation

- Place a survey arrow or peg at the segment point location determined with the GPS
- Pull out support maps and confirm location
- Move on to laying out the transect tapes and photographing the transects and macroplot



What's New in 2018?

- No changes to protocols
- Substitute sample segments are no longer part of the survey
- Navigation map application
- Website new look

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NRI Grazing Land Data Collection Protocols

Chapter Number	Protocol ¹	Non- Federal Range	BLM- Managed Range	Non- Federal Pasture
3	Point Locations and Plot Transect Layout			
4	Data Gatherers			
5	Ownership			
6	Land Cover/Use			
7	Landscape and Soils			
8	Ecological Site/Forage Suitability Transect Information and Use			
9	Line Point Intercept			
10	Gap Intercept			
11	Soil Stability Test			Opt
12	Plant Height			
13	Dry Weight Rank	Opt	Opt	Opt
14	Species Composition by Weight (production)		N/A	N/A
15	Standing Biomass	N/A	N/A	
16	Plant Census			
17	Resource Concerns			
18	Conservation Practices			
19	Disturbance Indicators			
20	Rangeland Health			NA
21	Pasture Condition	N/A	N/A	
22	Sagebrush Shape			NA

¹Status:

Yellow Protocol change N/A: Protocol does not apply.

Green: No change in protocol OPT: Optional



BLM Survey

- Second year of the second 5-year NRCS-BLM interagency agreement
- BLM preparations:
 - Ownership verification for sample points
 - GIS verification from the BLM National Office Center (NOC)
 - Logistics (e.g., access across private land, resource concerns)



Communication Between NRCS and BLM

 If communication breaks down between the BLM State Contact and the NRCS State Contact, the SRIC should call the BLM Field Office Manager associated with the set of sample segments

 If the information is slow, the NRCS SRIC should send an email to the national BLM contact, Sherm Karl (mkarl@blm.gov), <u>and</u> the NRI Grazing Land Help Desk (NRI-Graze-Help@iastate.edu)

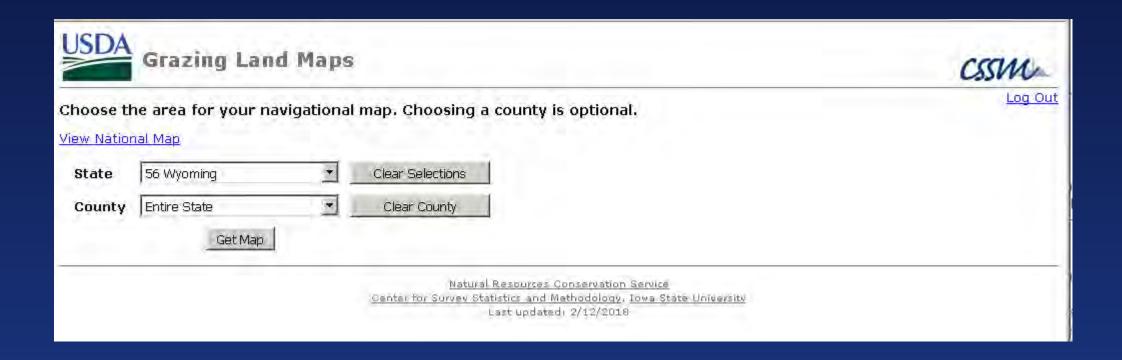


Grazing Land Maps Application

- Use for navigation or survey planning
- Select entire state, or
- Select a county within the state
- Bing maps background
- Zoom for more detail

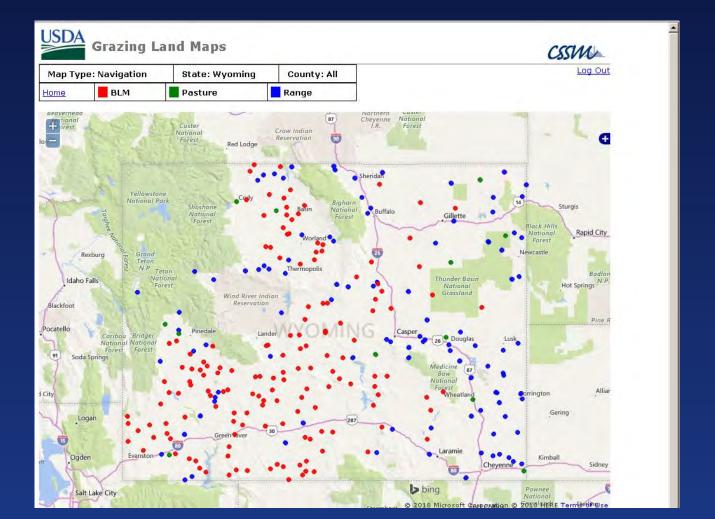


Select Your State

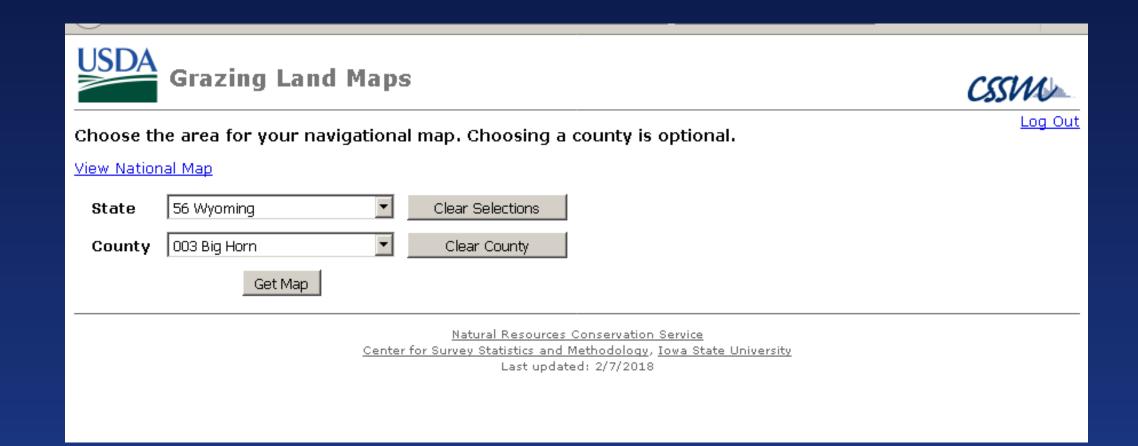




Selection by State

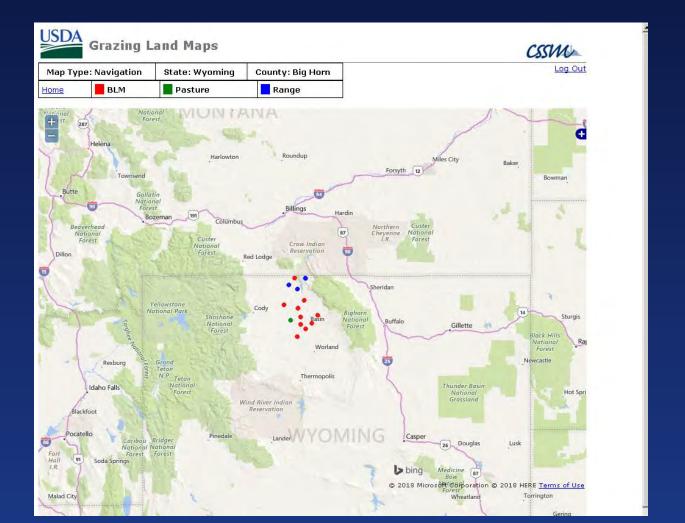








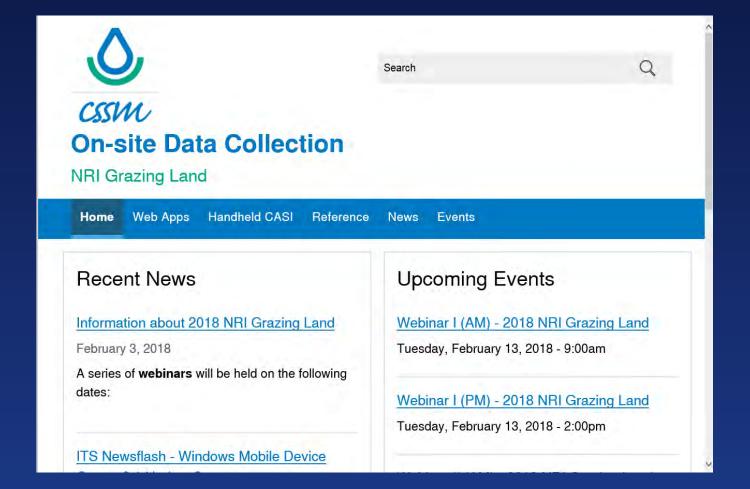
Selection by County Within a State





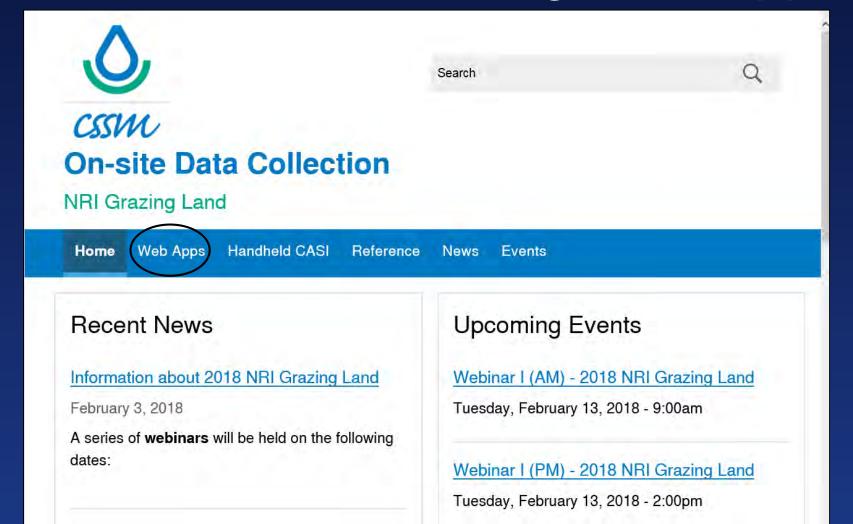
Bookmark the website!

https://grazingland.cssm.iastate.edu/





Web-based NRI Grazing Land Applications





Web-based NRI Grazing Land Applications

- Account Manager
- Grazing Land Survey Instrument (CASI)
- Grazing Land Images
- Grazing Land Maps
- Grazing Land Review Tables
- Grazing Land Reports
- Grazing Land Review Complete

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NRI Grazing Land

Home Web Apps Handheld CASI Reference News Events

Home

Web-based Applications

The web-based applications for NRI Grazing Land on-site data collection are under a security system managed by the User Manager (SRIC or designee) in each state. The system requires each user to create an account using the NRI Account Manager of sile. Once your account has been created, log into the Account Manager site and select Request Application Access. The User Manager will grant access based on your responsibilities.

Application Name	Required Role	Supported Browsers	Description
Grazingland Web CASI	Grazing	Internet Explorer	Web-based version of the handheld survey instrument (CASI)
Grazingland Images ☑	Grazing	IE 6+, Firefox, Chrome, Safari	Upload photos taken during on-site data collection
Grazingland Navigation Maps	Grazing	IE 6+, Firefox, Chrome, Safari	View location of points in state or county
Grazingland Reports ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	View data collection progress by sample, access Data View and Point Summary
Grazingland Status	GrazingReview	IE 6+, Firefox,	View segment status summaries



Account Manager

- The User Manager uses Account Manager to approve/deny access to Grazing Land Applications
- Names with 2017 access must be approved (or denied) access by the User Manager for 2018
- New people must use the Account Manager site to:
 - Create an account
 - Request access to Grazing Land applications
- Forgot your password? Create a new one using this application.
- Forgot your username? Send an email to the NRI Grazing Land Help Desk (nri-graze-help@iastate.edu)

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	Grazingland Reports ☑	GrazingReview	IE 6+, Firefox,	View data collection progress by sample, access Data



Web-based Grazing Land Survey Instrument

- Includes the same data entry screens as the CASI on the field PC
- Used for entering disposition data and data editing
- Power point for general use is also posted on the Web-based NRI Grazing Land Applications page

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Grazingland Reports ☑	GrazingReview	IE 6+, Firefox,	View data collection progress by sample, access Data



Grazing Land Images

- Used to upload images taken in the field, tag (add additional attribute data) them, mask identifying information, and submit to the permanent server
- Power point for NRI Grazing Land Images Uploading and Tagging is also posted on this page

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		andheld CASI Reference	News Events		
	<u>C</u>	Ĭ	•	(CASI)	
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	Grazingland Status Detail ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	View segment status summaries	
	Grazingland Review Tables ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	Download detailed Excel tables displaying point data by year	
	Grazingland Review Complete ☑	GrazingDataManagement	IE 6+, Firefox, Chrome, Safari	Change segment status to Review Complete	



Grazing Land Reports

- Provides general and detailed status reports of NRI Grazing Land data collection
- 2018 Status Detail allows you to obtain lists of segments by data collection period, sample type, and status
- Used to monitor progress of on-site data collection



National Resources Inventory



On-Site Studies Data Collection Reports

Log Out

- Status Detail
- 2018 Grazing Land (Range Sample) Data Collection Progress
- 2018 Grazing Land (Pasture Sample) Data Collection Progress
- 2018 Grazing Land (BLM Sample) Data Collection Progress
- 2018 Grazing Land Data View
- 2018 Grazing Land Point Summary
- 2017 Grazing Land (Range Sample) Data Collection Progress
- 2017 Grazing Land (Pasture Sample) Data Collection Progress
- 2017 Grazing Land (BLM Sample) Data Collection Progress
- 2017 Grazing Land Data View
- 2017 Grazing Land Point Summary
- 2016 Grazing Land (Range Sample) Data Collection Progress
- 2016 Grazing Land (Pasture Sample) Data Collection Progress
- 2016 Grazing Land (BLM Sample) Data Collection Progress
- 2016 Grazing Land Data View
- · 2016 Grazing Land Point Summary
- 2015 Grazing Land (Range Sample) Data Collection Progress
- 2015 Grazing Land (Pasture Sample) Data Collection Progress
- 2015 Grazing Land (BLM Sample) Data Collection Progress
- 201E Consider Land Date View



National Resources Inventory

ONRCS CSSMU

2018 BLM Sample, Grazing Land Field Study Data Collection Status

PDF Version

	Total	In - Not Started	In - UC	Checked Out	In - Complete	Reviewed
National Totals	1000	1000	0	Ö	Ö	0
Arizona	37	37	0	0	0	0
California	75	75	0	0	0	0
Colorado	65	65	0	0	0	0
Idaho	117	117	Ø	0	0	٥
Montana	75	75	0	0	0 -	0
Nevada	246	246	.0	0	0	O
New Mexico	36	36	0	0	0	0
Oregon	114	114	0	0	0	0
South Dakota	1	1	0	0	0	0
Utah	79	79	0	0	0	Q
Washington	1	1	0	0	0	Q
Wyoming	154	154	0	0	0	0

Key

State State

Total Total number of segments

In - Not Started Number of segments on the server where data collection has not yet begun

In - UC Number of segments on the server that were returned to the database only partially complete

Checked Out Number of segments currently checked out to the CASI

In - Complete Number of segments on the server where data collection is complete

Reviewed Number of segments on the server for which data collection and data review have been completed



National Resources Inventory

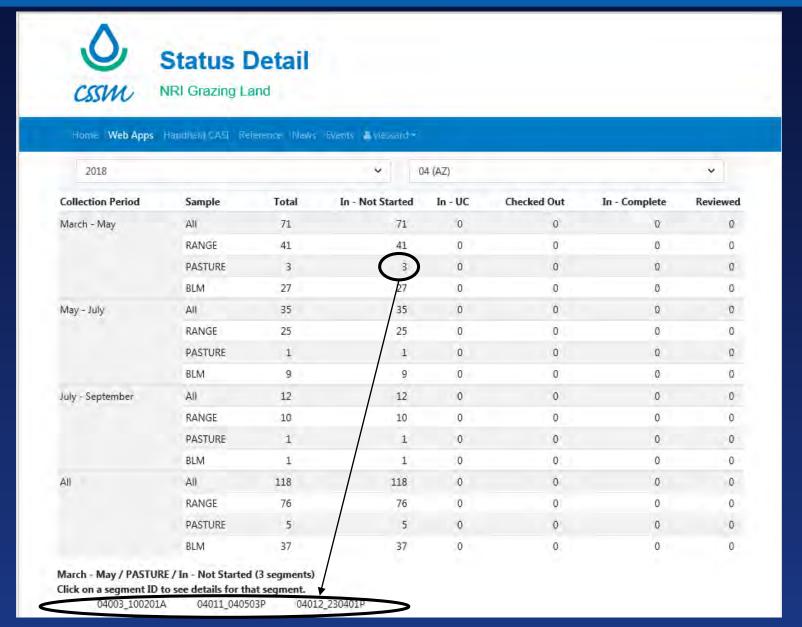


On-Site Studies Data Collection Reports

<u>Log Out</u>

- Status Detail
- 2018 Grazing Land (Range Sample) Data Collection Progress
- 2018 Grazing Land (Pasture Sample) Data Collection Progress
- 2018 Grazing Land (BLM Sample) Data Collection Progress
- 2018 Grazing Land Data View
- 2018 Grazing Land Point Summary
- 2017 Grazing Land (Range Sample) Data Collection Progress
- 2017 Grazing Land (Pasture Sample) Data Collection Progress
- 2017 Grazing Land (BLM Sample) Data Collection Progress
- 2017 Grazing Land Data View
- 2017 Grazing Land Point Summary
- 2016 Grazing Land (Range Sample) Data Collection Progress
- 2016 Grazing Land (Pasture Sample) Data Collection Progress
- 2016 Grazing Land (BLM Sample) Data Collection Progress

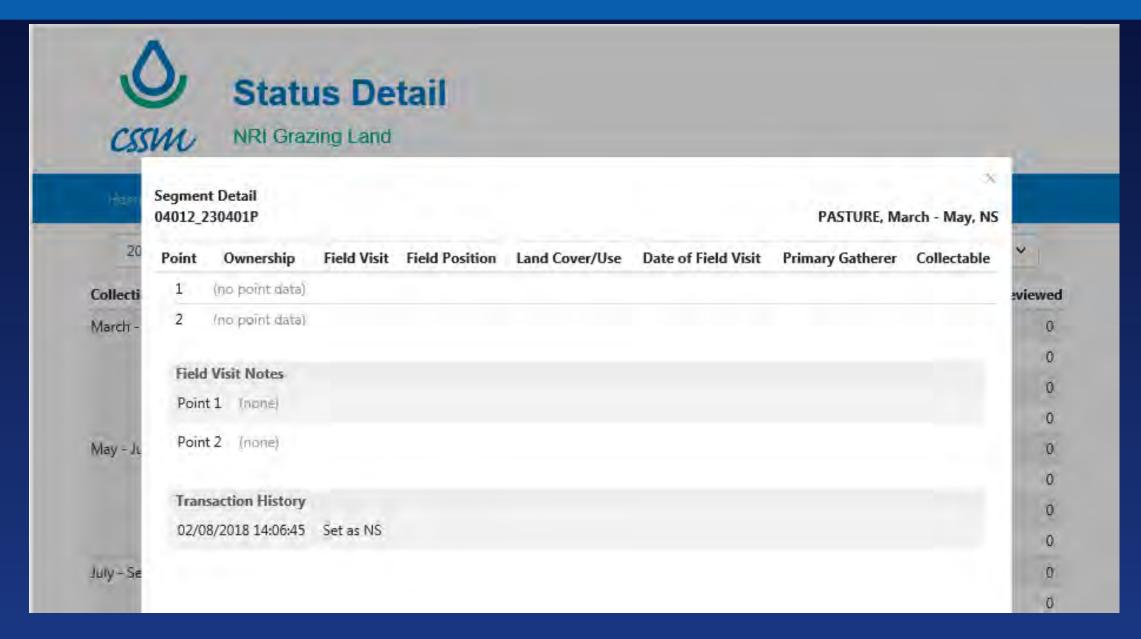




Click on value to get list of segments (see bottom of the page)

Click on listed segment to get Segment Detail (see next slide)







National Resources Inventory

On-Site Studies Data Collection Reports

- Status Detail
- 2018 Grazing Land (Range Sample) Data Collection Progress
- 2018 Grazing Land (Pasture Sample) Data Collection Progress
- 2018 Grazing Land (BLM Sample) Data Collection Progress
- 2018 Grazing Land Data View
- 2018 Grazing Land Point Summary
- 2017 Grazing Land (Range Sample) Data Collection Progress
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- 2016 Grazing Land (Pasture Sample) Data Collection Progress
- 2016 Grazing Land (BLM Sample) Data Collection Progress



National Resources Inventory

ONRCS CSSUM

On-Site Studies Date Collection Reports

State 01 Submit

Sample Survey State County County Name PSU Point Point Status PSU Status Field Collected Field Image Count

BLM 2018 8 17 El Dorsdo 2010158 1 NS NS No 0

BLM 2018 8 17 El Dorsdo 2010158 2 NS NS No 0

Partible	SUCTE	State	County	Source marrie	1 20	- Campe	t onte oration	t on amena	1 ICIO CONCELCE	ricia image count
BLM	2018	đ	17	El Dorado	201015B	1	NS	NS	No	D
BLM	2018	8	17	El Dorado	201015B	2	NS	NS	No	0
BLM	2018	8	17	El Dorado	201015B	3	NS	NS	No	.0
BLM	2018	В	25	Imperial	200101B	1	NS	NS	No	0
BLM	2018	8	25	Imperial	200101B	2	NS	NS	No	0
BLM	2018	8	25	Imperial	200101B	3	NS.	NS	No	0
BLM	2018	8	25	Imperial	200114B	1	NS	NS	No	0
BLM	2018	В	25	Imperial	200114B	2	NS	NS	No	0
BLM	2018	8	25	Imperial	200114B	3	NS	NS	No	0
BLM	2018	8	25	Imperial	200516B	1	NS	NS	No	0
BLM	2018	8	25	Imperial	2005168	2	NS	NS	No	Ó
BLM	2018	8	25	Imperial	200518B	3	NS	NS	No	0
BLM	2018	8	25	Imperial	200517B	1	NS	NS	No	0
BLM	2018	8	25	Imperial	2005178	2	NS	NS	No	0
BLM	2018	8	25	Imperial	200517B	3	NS	NS	No	0
BLM	2018	8	25	Imperial	200807B	1	NS	NS	No	0
BLM	2018	ă	25	Imperial	200807B	2	NS	NS	No	0
BLM	2018	8	25	Imperial	200807B	3	NS	NS	No-	0
BLM	2018	6	25	Imperial	200820B	1	NS	NS	No	0
BLM	2018	8	25	Imperial	200820B	2	NS	NS	No	0
BLM	2018	8	25	Imperial	200820B	3	NS	NS	No	0
BLM.	2018	6	25	Imperial	203404B	1	NS.	NS	No	0
BLM	2018	8	25	Imperial	203404B	2	NS	NS	No	0
BLM.	2018	8	25	Imperial	203404R	3	NS	NS	Mo	n



Hon	e Web Apps	Handheld CASI Reference	News Events	
CAS	<u> </u>			Instrument (CASI)
Gra	zingland Images 🗵	Grazing	IE 6+, Firefox, Chrome, Safari	Upload photos taken during on-site data collection
	zingland igation Maps ☑	Grazing	IE 6+, Firefox, Chrome, Safari	View location of points in state or county
Gra	zingland Reports	GrazingReview	IE 6+, Firefox, Chrome, Safari	View data collection progress by sample, access Data View and Point Summary
	zingland Status ail 델	GrazingReview	IE 6+, Firefox, Chrome, Safari	View segment status summaries
	zingland Review les ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	Download detailed Excel tables displaying point data by year
	zingland Review	GrazingDataManagement	IE 6+, Firefox, Chrome, Safari	Change segment status to Review Complete



Grazing Land Review Tables

- On-site data from multiple points are organized in tables by themes
- Used for reviewing the data, identifying anomalies
- Editing is done using the web-based CASI or CASI on the field PC
- Guidance document posted on the Grazing Land Review Tables site provides direction for using these tables



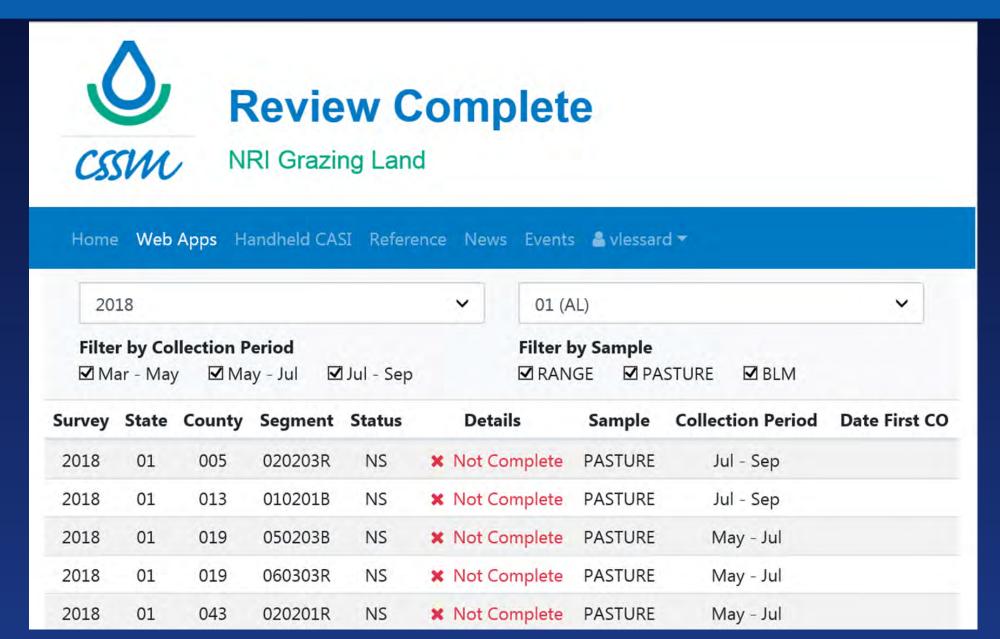
Home Web Apps H	landheld CASI Reference	News Events	
<u>CASI</u> <u>⊡</u>		•	Instrument (CASI)
Grazingland Images ☑	Grazing	IE 6+, Firefox, Chrome, Safari	Upload photos taken during on-site data collection
Grazingland Navigation Maps ☑	Grazing	IE 6+, Firefox, Chrome, Safari	View location of points in state or county
Grazingland Reports ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	View data collection progress by sample, access Data View and Point Summary
Grazingland Status Detail ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	View segment status summaries
Grazingland Review Tables ☑	GrazingReview	IE 6+, Firefox, Chrome, Safari	Download detailed Excel tables displaying point data by year
Grazingland Review Complete ☑	GrazingDataManagement	IE 6+, Firefox, Chrome, Safari	Change segment status to Review Complete



Grazing Land Review Complete

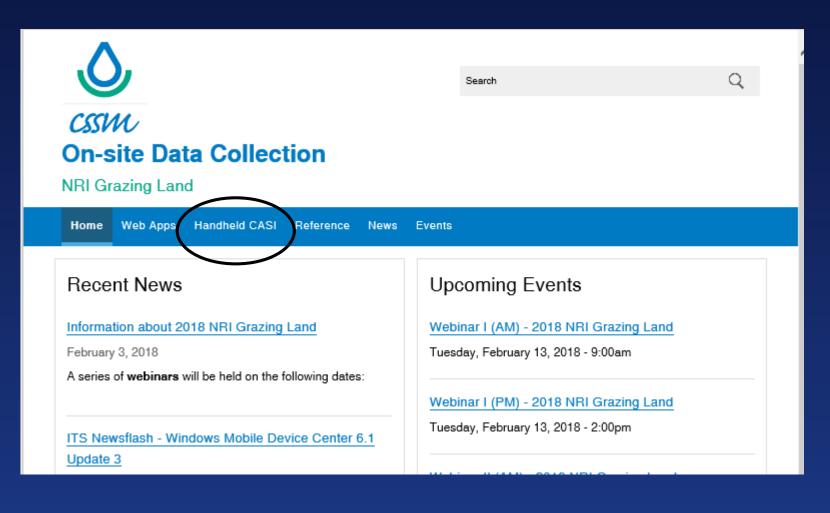
- Use to mark segments as Reviewed and Complete (RC)
- Provides information about sample segments
- Select Year from drop down list
- Select State from drop down list







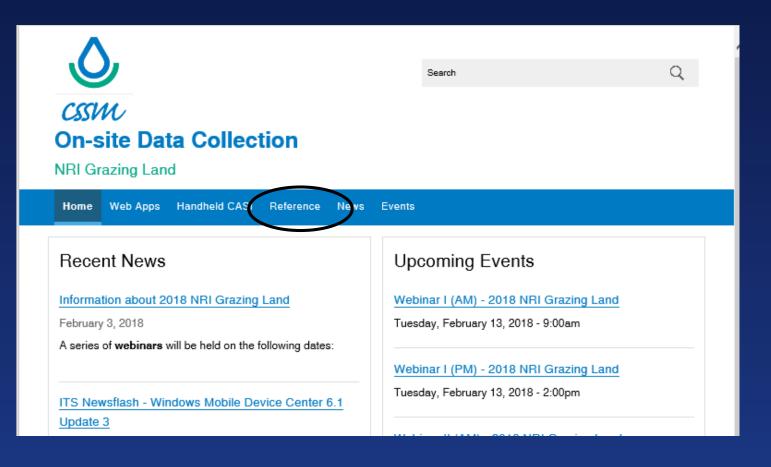
Handheld CASI



- Download the CASI Cab file to install on handheld data logger
- Support documentation provides related information



Reference Materials



- Data Collection Handbook of Instructions
- Soils Tables
- Landowner Resources
- Plants
- Calibration
- Photo Protocol Labels
- Segment Status Types
- Protocol Videos
- Quality Assurance Plan
- Confidentiality Agreement
- Substitute Segments



2018 NRI Grazing Land On-Site Trainings

- Tucson, AZ, February 27-March 1
- Knoxville, TN, April 24-26

Please sign up for Knoxville session using AgLearn by 3/13/2018!

Send contactor names to Christopher Lavergne (christopher.lavergne@ftw.usda.gov) or the NRI Grazing Land Help Desk (nri-graze-help@iastate.edu) – Additional documentation is needed by NEDC



Quality Assurance for NRI Grazing Land Surveys

- Training
- Calibration
- In-field reviews
- Review of collected data



NRI Grazing Land On-Site Data Collection Authorization

- Two levels of authorization: Crew Member, Technical Leader
 - Technical Leader -
 - Trained in field protocols at National NEDC training (every other year if active 5 or more points)
 - Pass written test
 - Sign confidentiality agreements
 - Perform calibration exercises
 - Pass performance based post training test (See NRI Grazing Land On-Site Data Collection Quality Assurance Plan Appendix A, NRI Grazing Land On-Site Data Collection Protocol Performance Checklist).
 - Crew Member
 - Trained in field protocols at National NEDC training or by authorized Technical Leader or national grazing lands trainer (every other year if active 5 or more points)
 - Pass written test
 - Sign confidentiality agreements
 - Perform calibration exercises



Calibration for Grazing Land On-Site Protocols

Conducted for:

Line Point Intercept

Gap Intercept

Plant Height

Soil Aggregate Stability (Optional for pasture)

Species Composition by Weight (Plant Production –

Not done for pasture)

Double sampling methods (if used)

Plant production protocol

Minimum requirement

During training session

Two additional calibrations during field season

(1 additional if fewer than 15 PSUs assigned)

 See NRI Grazing Land Instructions Appendix E



NRI Rangeland/Grazing Land In-Field Reviews

- Field supervisor visits at least 5% of segments completed by each crew (minimum of 1 if fewer than 20 segments)
- Field crew may or may not be present
- Field crews keep field supervisors apprised of their schedules
- Collected data is compared with the segment
- In-field Review Check List provided (See Appendix C of the NRI Grazing Land On-Site Study QA Plan, (http://www.nrisurvey.org/nrcs/Grazingland/2018)



Review of Collected Data

- 1. Process formalized in 2015 with Grazing Land Review Complete application
- 2. Download review tables using the Grazing Land Review Tables application
- 3. Follow the Data Review Guidance Document linked on the site
- 4. Edit the data with the web-based NRI Grazing Land Survey Instrument
- 5. Mark reviewed segments as Review Complete (RC) using the Grazing Land Review Complete application

Applications are linked on the NRI Grazing Land website: http://www.nrisurvey.org/nrcs/Grazingland/2018/



Announcements

- Sign up deadline for Knoxville session of NRI Grazing Land
 On-site training is <u>March 13, 2018</u>.
- Install the CASI on the field PC prior to attending trainings.

 Contact NRI Grazing Land Help Desk (nri-graze-help@iastate.edu) for assistance.
- Data collection must be completed by September 30, 2018
- Data review must be completed by October 31, 2018



Protocol Webinars

- Webinar II Protocol Review Part 1
 - Wednesday, February 14, 2018
- Webinar III Protocol Review Part 2
 - Thursday, February 15, 2018

Eastern States: 10 EST; 9 CST

Western States: 2 CST; 1pm MST, 12pm PST, 10am HAST