

Making Monitoring Easier GrassSnap App

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Need to see changes:

- Reference (*perspective pole, hoop or plot frame*)



- Repeatability

(*permanent field marker*)

- Related Data

(*precip, hail, grasshoppers, grazing records...*)



Plot Name: <i>Sedley 1</i>					Date: <i>11-12-09</i>
Point: <i>Compass Bearing: or GPS Coordinates</i>					Rainfall to date:
Dominant Plant Species					SaxDris Score:
20' Plot	40' Plot	60' Plot	80' Plot	100' Plot	Season of Dehollation: <i>-2</i>
<i>N+T</i>	<i>W ragweed</i>	<i>N+T</i>	<i>Blue grama</i>	<i>Proves sandweed</i>	Precipitation: <i>+2</i>
<i>Scud</i>	<i>U+T</i>	<i>Sedges/ grama</i>	<i>Sedges</i>	<i>Sedges</i>	End-of-Season Residual Herbage: <i>2</i>
<i>W ragweed</i>	<i>Sedges</i>	<i>Scud bluestem</i>	<i>W whetgrass</i>	<i>Needle + thread</i>	Total: <i>0</i>
Notes: <i>416 hd yrk hoppers + 6 beetles</i>					
<i>June 12 - July 13</i>					

Plot Name: <i>Sedley 1</i>					Date:
Point: <i>Compass Bearing: or GPS Coordinates</i>					Rainfall to date:
Dominant Plant Species					SaxDris Score:
20' Plot	40' Plot	60' Plot	80' Plot	100' Plot	Season of Dehollation: <i>-2</i>
<i>Little bluestem</i>	<i>Sedges</i>	<i>Little blue</i>	<i>Sandrat</i>	<i>Proves sandweed</i>	Precipitation: <i>+2</i>
					End-of-Season Residual Herbage: <i>2</i>





Photo Point

the bigger picture

Look out - general landscape of key areas

- Grass cover, noxious weeds, cedar trees



Photo Plot

the details of key area

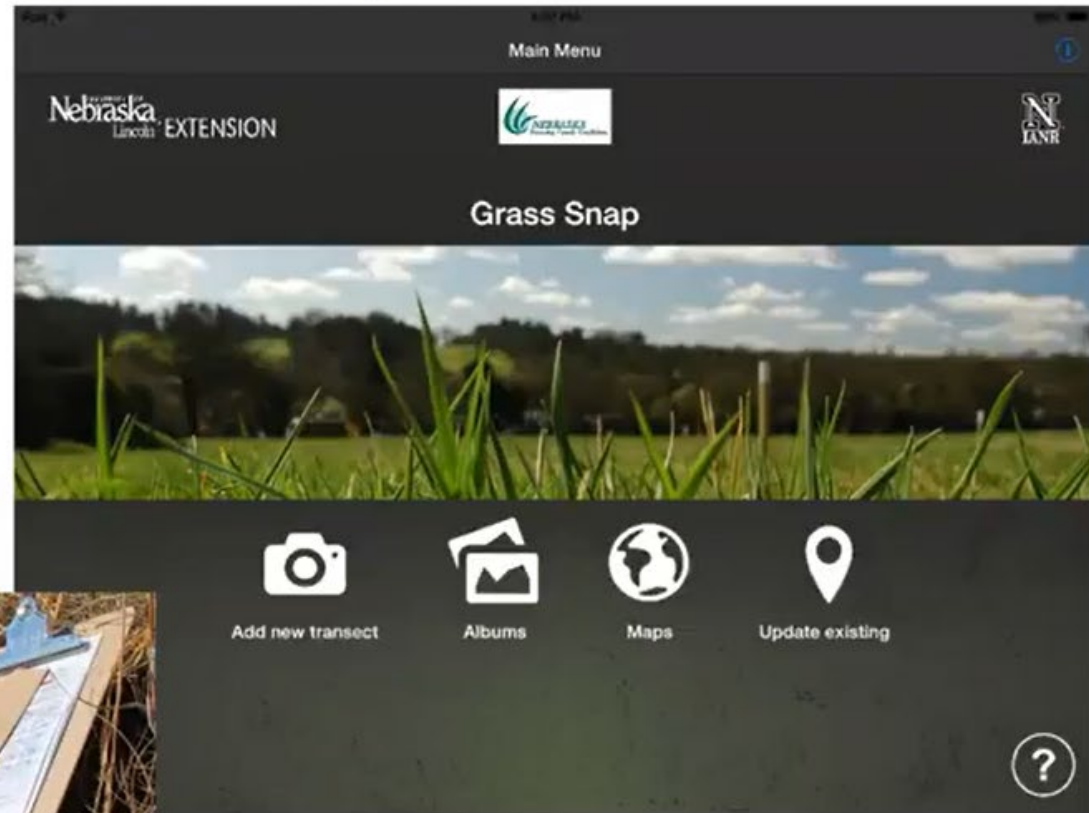
Look down

- Key species change in size / number
- Bare ground, pedastalling of plants



GrassSnap

- Photo-stamp pictures
- Stores data
- GPS coordinates



Easy, fast
Repeatable
Flexible for most systems
Nebraska CSP (PLT-02)

Resources

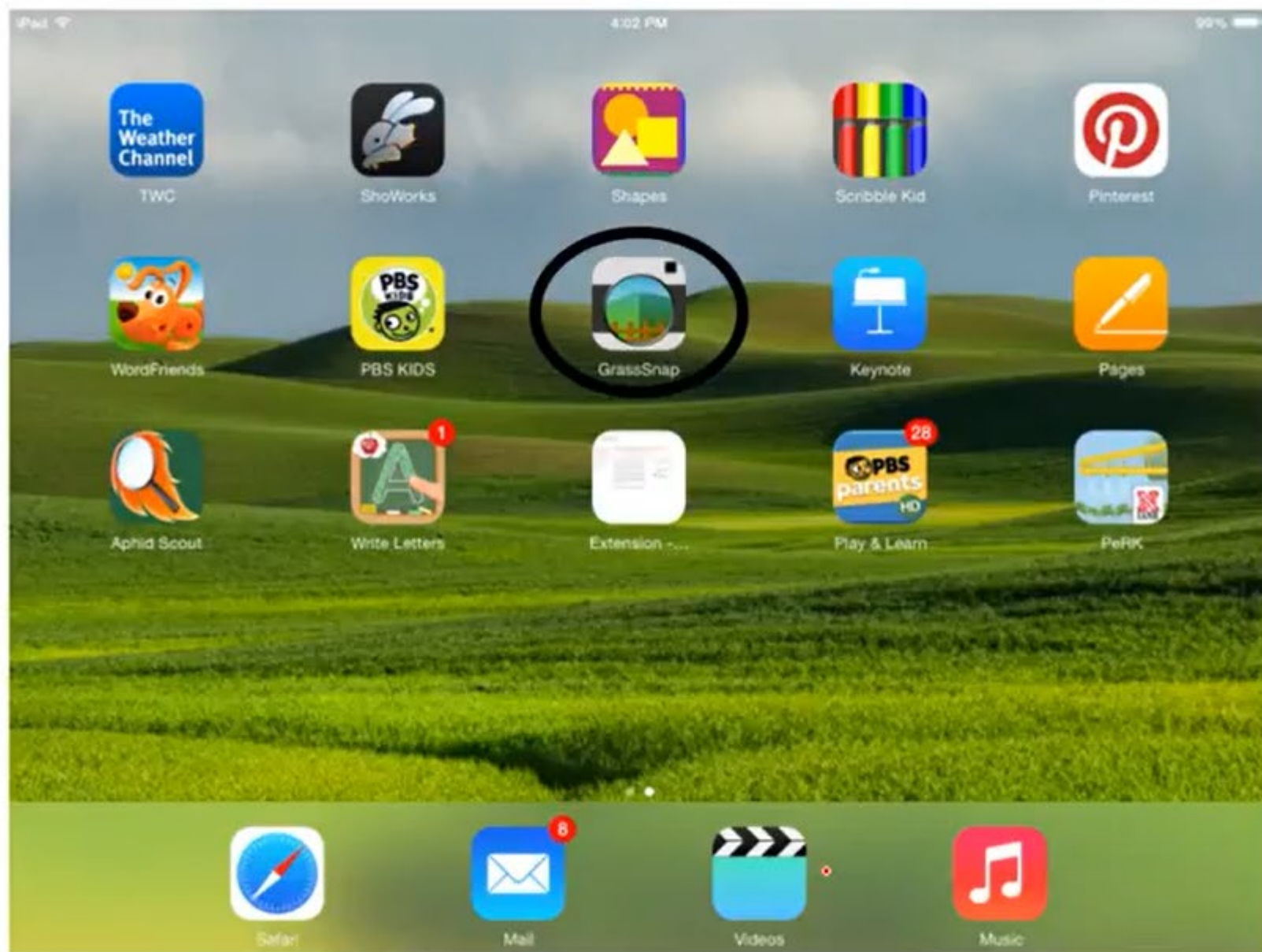
- GrassSnap Website

<http://go.unl.edu/GrassSnap>

- Getting to Know Your Pastures:
Techniques to Enhance Monitoring

NebGuide G2212

<http://ianrpubs.unl.edu/epublic/pages/publicationD.jsp?publicationId=1588>



Albums



Albums

iPad 4:02 PM 99%

< Transects More Info Edit ⓘ

r402013August17

Grazing and Tread Scores for r40 on Aug 17, 2013

Tread Scores:
Ecological site: SANDS
Reference plant community:
Current year precipitation: Above normal
Composition changes: 1
Abundance of seedlings: 1
Plant residue: 1
Plant vigor: 1
Condition of soil surface: 0
Total: 4
Comments:
South. Just moved cores in.

Image Name: r40-2013-Aug-17-plant
GPS coordinates: 41.943784, -100.600346
Date: Aug 17, 2013, 3:03:08 PM CDT
Direction: 0 N





Image Name: r40-2013-Aug-17-plant
GPS coordinates: 41.943784, -100.600346
Date: Aug 17, 2013, 3:03:15 PM CDT
Direction: 0 N



Add New Transect

- 1st button you choose when starting



Grazing Index & TREND Score

Enter more information

Nebraska Sandhills Defoliation Index (SanDRIS)

Comments:
3 day grazing in May
416 lbs and 6 bulls from July 13- Aug 18

Season of Defoliation:
Mar-Apr: +2, May: +1, Jun: +1, Jul: +1, Aug: +1, Sept: +1, Oct: +1, Nov: +1, Dec-Feb: +1

Precipitation Regime (October-September):
Well above average: +2, Near average: +1, 0, -1, Drought: -2

End-of-Season Residual Herbage (Hydrologic Condition):
Excellent: +2, Adequate: +1, 0, -1, Poor: -2

Total: 0

Back Done

March-April: sedges green-up and grow
May: cool-season grasses green up
June: early growth of warm-season tall grasses
July: rapid growth of warm-season tall grasses
August: warm-season tall grasses have flowered
September: nearly full growing-season deferment
October-February: dormant season

Multiple Grazings During Growing Season for SanDRIS

Pastures should be scored for growing-season use when any combination of summer defoliation processes removes more than 40% of the herbage that would be accounted for by traditional moderate summer stocking rates. For example, if last year's use included 9 AUD/ac during July and 12 AUD/ac during November, with a

Enter more information

Nebraska Apparent TREND Scores

Ecological site: SANDS

Reference plant community: little bluestem

Current year precipitation: 10.0 inches

Comments:

Composition changes: 2, 1, 0, -1, -2

Abundance of seedlings and young plants: 2, 1, 0, -1, -2

Plant residue and litter: 2, 1, 0, -1, -2

Plant vigor: 2, 1, 0, -1, -2

Condition of soil surface: 2, 1, 0, -1, -2

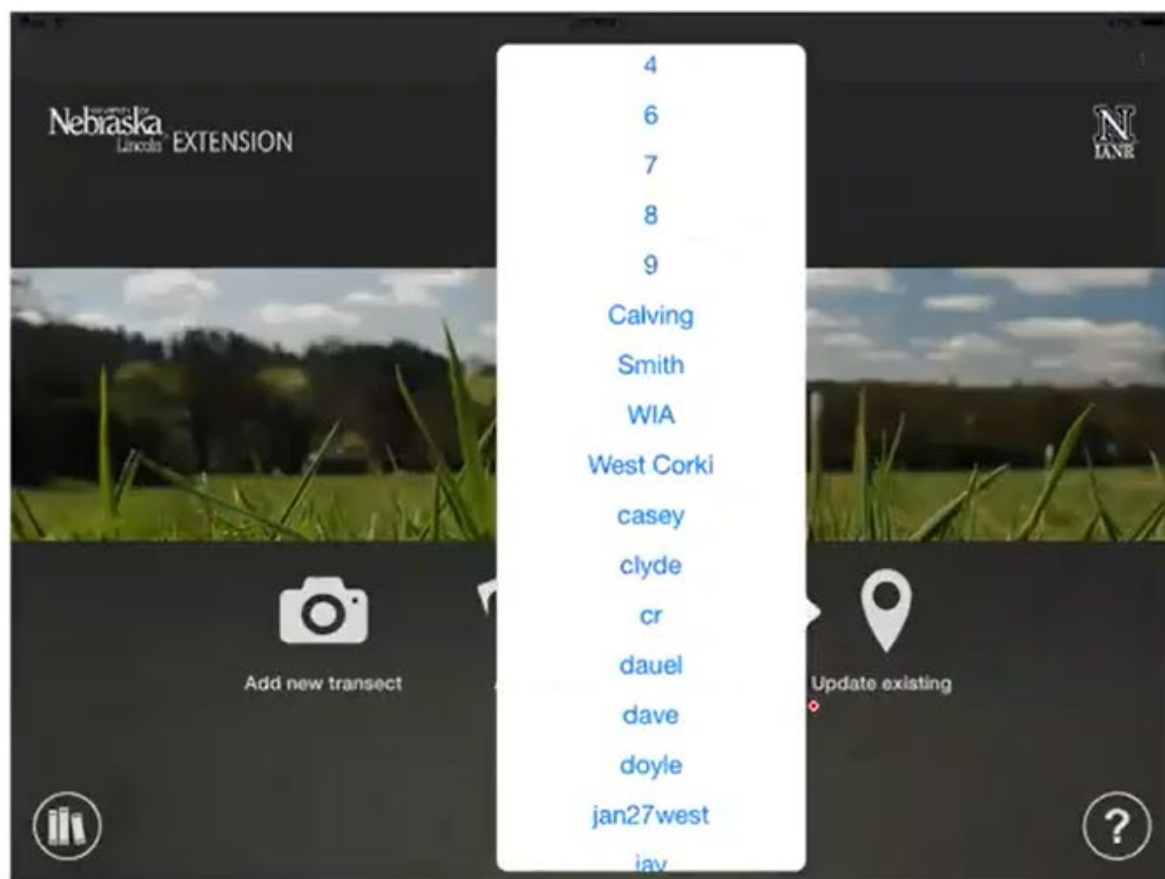
Total: 0

Back Done

U.S. trending towards reference
N.E. not apparent
U.S. trending away from reference

Update Existing

- Use this button after the initial monitoring
- Pasture name, GPS, original photo point saved



Overlay Feature

