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### Researching with the Web of Science & RefWorks

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University of Nebraska - Lincoln, dboden1@unl.edu

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# Researching with the **Web of Science &**



## *Your Presenter Today:*

**Dana W. R. Boden, M.S.L.S., Ph.D.,**

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LIBRARIES HOME / E-RESOURCES / SERVICES / ABOUT / MY LIBRARY / HOURS / ASK A QUESTION

Navigation

Libraries Home

Catalog

Location Codes, Love Library Call Number Locator, CYT Call Number Locator

Libraries at UNL

Digital Initiatives

Related Links

Archives & Special Collections CDRH Interlibrary Loan (ILLiad)

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Keyword Search

more search options...



RESOURCES

- Catalog E-Resources Electronic Journal Finder (TDNet) Multi-Search (for UNL) Multi-Search (for Public)

Database Trials

E-Reserves

RefWorks

SERVICES

- UNL Faculty and Staff UNL Students UNL Distance Education Students Alumni and Community Users High School User Program Accommodations for Disabilities

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What's New

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[LIBRARIES HOME](#) / [E-RESOURCES](#) / [SERVICES](#) / [ABOUT](#)  
/ [MY LIBRARY](#) / [HOURS](#) / [ASK A QUESTION](#)

## Navigation

[E-Resources Home](#)

[UNL Libraries Catalog](#)

[NE Library Catalogs](#)

[Other Catalogs](#)

[NebraskaAccess](#), [WorldCat](#)

### Additional Resources

[Government Resources](#),  
[Internet Resources Collection](#),  
[Internet Search Engines](#), [Citing](#)  
[and Evaluating Resources](#),  
[Library Terminology](#), more ...

[RefWorks](#)

•[How to Access Resources](#)  
from off Campus•

[Multi-Search \(for UNL\)](#)  
[Multi-Search \(for Public\)](#)

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[CDRH](#)  
[Interlibrary Loan \(ILLiad\)](#)

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- Electronic Journal Finder (TDNet)
- Database Trials

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| <a href="#">Agriculture &amp; Life Sciences</a>      | <a href="#">Geosciences</a>                          |
| <a href="#">Anthropology &amp; Archaeology</a>       | <a href="#">Gerontology</a>                          |
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| <a href="#">Biography, Genealogy, and</a>            | <a href="#">History, World</a>                       |
| <a href="#">Quotations</a>                           | <a href="#">Image &amp; Sound Files</a>              |
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| <a href="#">Business &amp; Economics</a>             | <a href="#">Journalism &amp; Mass Communications</a> |
| <a href="#">Chemistry &amp; Chemical Engineering</a> | <a href="#">Law</a>                                  |
| <a href="#">Civil Engineering</a>                    | <a href="#">Library &amp; Information Science</a>    |
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| <a href="#">Education</a>                            | <a href="#">Philosophy</a>                           |
| <a href="#">Electronic Text Collections</a>          | <a href="#">Physics &amp; Astronomy</a>              |
| <a href="#">Engineering</a>                          | <a href="#">Political Science &amp; Government</a>   |
| <a href="#">English</a>                              | <a href="#">Psychology</a>                           |
| <a href="#">Ethnic &amp; Multicultural Studies</a>   | <a href="#">Religious Studies</a>                    |
| <a href="#">Family Studies</a>                       | <a href="#">Rural &amp; Urban Studies</a>            |
| <a href="#">Film</a>                                 | <a href="#">Sociology &amp; Social Work</a>          |
| <a href="#">Food Science &amp; Nutrition</a>         | <a href="#">Sports, Recreation, and Leisure</a>      |
| <a href="#">Gender Studies</a>                       | <a href="#">Statistical &amp; Demographic Data</a>   |
|  | <a href="#">Textile Studies &amp; Clothing</a>       |
|  | <a href="#">Water Resources</a>                      |

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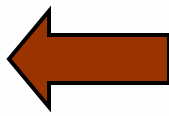
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- 2. Reece PE, Schacht WH, Koehler AE  
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- 3. Boyd CS, Svejcar TJ  
[Regrowth and production of herbaceous riparian vegetation following defoliation](#)  
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- 4. Volesky JD, Schacht WH, Richardson DM  
[Stocking rate and grazing frequency effects on Nebraska Sandhills meadows](#)  
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- 5. Burboa-Cabrera FR, Schacht WH, Anderson BE  
[Utilization and grazing distribution of cattle at 4 stocking densities](#)  
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Times Cited: 1  
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- 6. Reece PE, Nixon JS, Moser LE, et al.  
[Seasonal dynamics of prairie sandreed rhizome development](#)  
**JOURNAL OF RANGE MANAGEMENT** 55 (2): 182-187 MAR 2002  
Times Cited: 1  
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- 7. Vogel KP, Jensen KJ  
[Adaptation of perennial triticeae to the eastern Central Great Plains](#)  
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**Author(s):** [Burboa-Cabrera FR](#), [Schacht WH](#), [Anderson BE](#)

**Source:** JOURNAL OF RANGE MANAGEMENT 56 (4): 328-333 JUL 2003

**Document Type:** Article

**Language:** English

**Cited References:** 29 **Times Cited:** 1 FIND RELATED RECORDS

**Abstract:** The relationship between stocking density and grazing distribution was studied in eastern Nebraska pastures seeded to a warm-season, tall-grass mixture and grazed at 4 stocking densities: 9, 18, 27, and 54 steers ha<sup>-1</sup>. Each of 4 pastures was divided into 4 paddocks ranging in size from 0.18 to 1.12 ha. Paddocks within each pasture were grazed rotationally by 10 steers averaging 282 kg during 3 consecutive cycles (12, 36, and 24 days) from early June to late August in 1995 and 1996. Transects 12-m long were established in a grid pattern in each paddock. Six tillers each of big bluestem (*Andropogon gerardii* Vitman) and switch-grass (*Panicum virgatum* L.) were marked permanently in each transect. Height and leaf length of marked tillers were measured before and after grazing in the last 2 grazing cycles in both years. Utilization was estimated by the reduction in tiller height or leaf length. Estimates of grazing distribution were based on a uniformity index, which was calculated by summing the absolute differences of tiller height or leaf length between adjacent transects. Stocking density generally did not affect ( $P > 0.05$ ) tiller height reduction which ranged from 19 to 22 cm and from 29 to 38 cm among the stocking densities in 1995 and 1996, respectively. In most grazing cycles, leaf length reduction for big bluestem was greater ( $P < 0.05$ ) than for switchgrass while tiller height reduction was similar between species. Spatial grazing distribution was not affected ( $P > 0.05$ ) by stocking density but big bluestem was grazed more evenly ( $P < 0.05$ ) than switchgrass in the last cycle in each year. Stocking densities as high as 54 steers ha<sup>-1</sup> on warmseason, tall-grass mixtures do not appear to be a major factor in affecting spatial grazing distribution or forage plant selection.

**Author Keywords:** big bluestem; switchgrass; uniformity index; herbage allowance

**KeyWords Plus:** TILLER DEFOLIATION PATTERNS; SHORT-DURATION; RANGE

**Addresses:** Burboa-Cabrera FR (reprint author), CIRNO, SAGARPA, INIFAP, Blvd del Bosque,7 Col Valle Verde, Hermosillo, Sonora Mexico  
CIRNO, SAGARPA, INIFAP, Hermosillo, Sonora Mexico  
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**Publisher:** SOC RANGE MANAGEMENT, 445 UNION BLVD, STE 230, LAKEWOOD, CO 80228-1259 USA

**Subject Category:** AGRICULTURE, DAIRY & ANIMAL SCIENCE; ECOLOGY

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Go to Page: 1 of 1 GO

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USE OF FIRE FOR SPELLING MONSOON TALLGRASS PASTURE GRAZED BY CATTLE  
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[Use of cues by grazing animals to locate food patches: An example with sheep](#)  
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PATTERNS OF DEFOLIATION DURING CONTINUOUS AND ROTATIONAL GRAZING OF MATOPOS SANDVELD OF RHODESIA .1. SELECTIVITY OF GRAZING  
RHODESIAN JOURNAL OF AGRICULTURAL RESEARCH 16 : 117 1978
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QUANTITATIVE PLANT E : 1983
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Go to Page: 1 of 1 GO

References 1 -- 32

Navigation icons: << < [ 1 ] > >>

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<input type="checkbox"/>	5	...Schacht WH	JOURNAL OF RANGE MANAGEMENT Title: <a href="#">Leaf area, visual obstruction, and standing crop relationships on Sandhills rangeland</a>	1999	52	494	
<input type="checkbox"/>	3	SCHACHT WH	JOURNAL OF RANGE MANAGEMENT Title: <a href="#">Growth responses of warm-season tallgrasses to dormant-season management</a>	1998	51	442	
<input type="checkbox"/>	3	...Schacht WH	JOURNAL OF RANGE MANAGEMENT Title: <a href="#">Prediction of leaf : stem ratio in grasses using near infrared reflectance spectroscopy</a>	1998	51	447	



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**Title:** Prediction of leaf : stem ratio in grasses using near infrared reflectance spectroscopy

**Author(s):** [Smart AJ](#), [Schacht WH](#), [Pedersen JE](#), [Undersander DJ](#), [Moser LE](#)

**Source:** JOURNAL OF RANGE MANAGEMENT 51 (4): 447-449 JUL 1998

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**Language:** English

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**Abstract:** Leaf:stem ratio of grass stands is an important factor affecting diet selection, quality, and forage intake. Estimates of leaf:stem ratios commonly are based on a labor intensive process of hand separating leaf and stem fractions. Near infrared reflectance spectroscopy (NIRS) has been used successfully to predict forage quality and botanical composition of vegetation samples. The objective of this study was to evaluate the use of NIRS to predict leaf:stem ratios in big bluestem (*Andropogon gerardii* Vitman), switchgrass (*Panicum virgatum* L.), and smooth brome grass (*Bromus inermis* Leyss.). A total of 72 hand-clipped samples of each species was taken from seeded monocultures in eastern Nebraska throughout the 1992, 1993, and 1994 growing seasons. Leaf:stem ratio was determined first for each Sample and then the entire sample was ground. Samples were scanned by a Perstorp model 6500 near infrared scanning monochromator. Three calibration equations were developed based on using 18, 36, and 54 (1/4, 1/2, and 3/4 of total samples, respectively) samples. These 3 calibration equations were used to determine the number of samples necessary to achieve an  $r(2)$  of 0.70 or higher for each data set. Big bluestem and switchgrass had coefficients of determination ( $r(2)$ ) of less than or equal to 0.69 for all calibration equations except for the equation using only 18 samples of big bluestem  $r(2) = 0.60$ . Smooth brome grass had a  $r(2)$  ranging from only 0.06 to 0.14 for the calibration equations regardless of the number of samples used. Near infrared reflectance spectroscopy was a rapid means of estimating leaf:stem ratios in monocultures of big bluestem and switchgrass but it was not suitable for smooth brome grass.

**Author Keywords:** NIRS; big bluestem; switchgrass; smooth brome grass

**KeyWords Plus:** BOTANICAL COMPOSITION; FORAGE QUALITY; MIXTURES; BEHAVIOR; ALFALFA; HERBAGE; CATTLE

**Addresses:** Smart AJ (reprint author), Univ Nebraska, Agron Dept Plant Sci 279, Lincoln, NE 68583 USA  
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**PREDICTION OF LEAF/STEM RATIO USING NEAR-INFRARED REFLECTANCE SPECTROSCOPY (NIRS)**

A TECHNICAL NOTE

Alexander J. Smart<sup>\*a</sup>, Walter H. Schacht<sup>b</sup>, Lowell E. Moser<sup>b</sup> and Jerry D. Volesky<sup>c</sup>

<sup>a</sup> Dep. of Anim. and Range Sci., South Dakota State Univ., Box 2170, Brookings, SD 57007-0392  
<sup>b</sup> Dep. of Agron. and Hortic., Univ. of Nebraska-Lincoln, 279 Plant Science, P.O. Box 830915, Lincoln, NE 68583  
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\* Corresponding author ([Alexander\\_Smart@sdstate.edu](mailto:Alexander_Smart@sdstate.edu))

Received for publication March 28, 2003.

**ABSTRACT**

Leaf/stem ratio of grass stands is an important factor affecting diet selection, quality, and forage intake. Determination of leaf/stem ratio involves a labor-intensive process of hand separating leaf and stem fractions. Our objective in this study was to evaluate leaf/stem ratio prediction using near-

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ALEXANDER J. SMART,\* WALTER H. SCHACHT, LOWELL E. MOSER, AND JERRY D. VOLESKY

**Abstract**

Leaf/stem ratio of grass stands is an important factor affecting diet selection, quality, and forage intake. Determination of leaf/stem ratio involves a labor-intensive process of hand separating leaf and stem fractions. Our objectives in this study were to evaluate leaf/stem ratio prediction using near-infrared reflectance spectroscopy (NIRS) in monocultures of big bluestem (*Andropogon gerardii* Vitman), switchgrass (*Panicum virgatum* L.), intermediate wheatgrass [*Thinopyrum intermedium* (Host) Barkw. & D.R. Dewey], and smooth bromegrass (*Bromus inermis* Leys.). Samples of each species were hand-clipped from monocultures at four locations throughout Nebraska in the 1997 and 1998 growing seasons. Ground samples were scanned by a Perstorp model 6500 near-infrared scanning monochromator. Calibration equations were developed using CENTER and SELECT procedures. Near-infrared reflectance spectroscopy estimated leaf/stem ratio in monocultures of big bluestem, switchgrass, intermediate wheatgrass, and smooth bromegrass with a coefficient of determination ( $r^2$ ) of 0.73, 0.96, 0.75, and 0.84, respectively. Near-infrared reflectance spectroscopy was a rapid means of estimating leaf/stem ratio in these grasses.

**Materials and Methods**

The grasses were sampled through parts of 1997 and 1998 growing seasons at four sites across Nebraska. At the Gudmundsen Sandhills Laboratory near Whitman in west-central Nebraska, naturalized plant communities of smooth bromegrass from a subirrigated meadow were sampled at random. Native switchgrass was collected at random from monocultures growing on upland range sites. At the West Central Research and Extension Center near North Platte in south-central Nebraska, all four grasses were collected from monocultures seeded in 1990 from a replicated randomized complete block design. At the campus of the University of Nebraska-Lincoln in southeastern Nebraska, all four grasses were collected from monocultures seeded in 1990 from a replicated randomized complete block design. At the Havelock Farm near Lincoln in southeastern Nebraska, big bluestem, switchgrass, and smooth bromegrass were collected from monocultures seeded in 1996 from a replicated randomized complete block design. No fertilizer had been added to the grasses 2 yr before sampling. The warm-season grasses, big bluestem and switchgrass, were sampled on a weekly basis from 5 June to 2 July in 1997 and from 19 May to 23 July in 1998. The cool-season grasses, intermediate wheatgrass and smooth bromegrass, were sampled on a weekly basis from 14 May to 26 June in 1997 and from 5 May to 23 June in 1998.

This sampling schedule provided the wide array of plant developmental stages needed to test the performance of NIRS. At each sampling date, tillers from each grass species were hand-clipped at ground level from four replications using one 0.25-m<sup>2</sup> circular plot frame. Samples were oven-dried at 60°C and hand-separated into leaf blade and stem (including leaf sheath and inflorescence) components. Components were weighed, and the leaf blade dry weight was divided by the stem dry weight to calculate leaf/stem ratio.

These components were ground separately in a Wiley mill (Arthur Thomas Co., Philadelphia, PA) to pass a 1.0-mm screen and further ground through a cyclone mill (Udy Analyzer Co., Boulder, CO) with a 1.0-mm screen. Ground forage samples were recombined according to component dry weight fraction before leaf/stem ratio determination, thoroughly mixed, and stored in plastic bags at room temperature. Samples were scanned using a Perstorp model 6500 near-infrared scanning monochromator (NIRSystems, Perstorp Analytical Co., Silver Spring, MD). The NIRS software program CENTER (WIN-ISI2 ver. 1.02a, FOSS NIRSystems, Silver Springs, MD) was used to group samples based on spectra similarities. Calibra-

316 (1 of 3)



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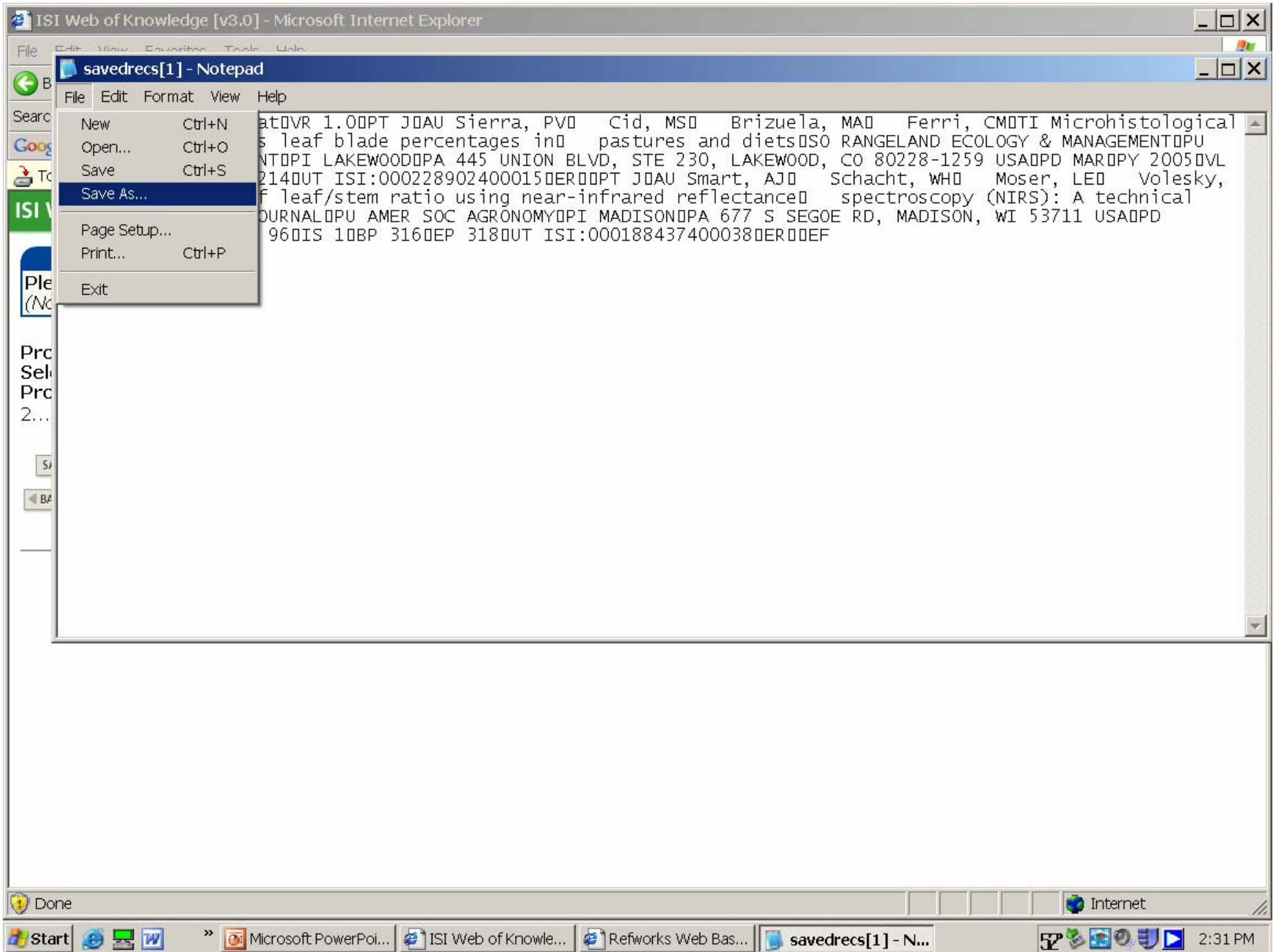
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Source: [Rangeland Ecology & Management](#), 2005, 58, 2, 207-214, SOC RANGE MANAGEMENT, LAKEWOOD; 445 UNION BLVD, STE 230, LAKEWOOD, CO 80228-1259 USA

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Title: Prediction of leaf/stem ratio using near-infrared reflectance spectroscopy (NIRS): A technical note  
Authors: [Smart,A.J.](#); [Schacht,W.H.](#); [Moser,L.E.](#); [Volesky,J.D.](#)  
Source: [Agron.J.](#), 2004, 96, 1, 316-318, AMER SOC AGRONOMY, MADISON; 677 S SEGOE RD, MADISON, WI 53711 USA

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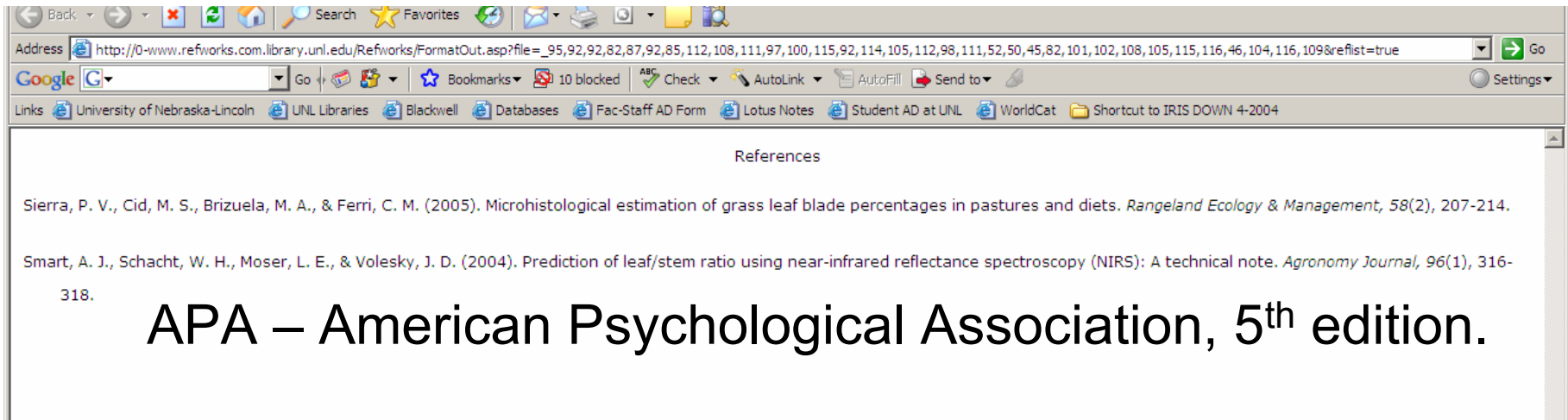
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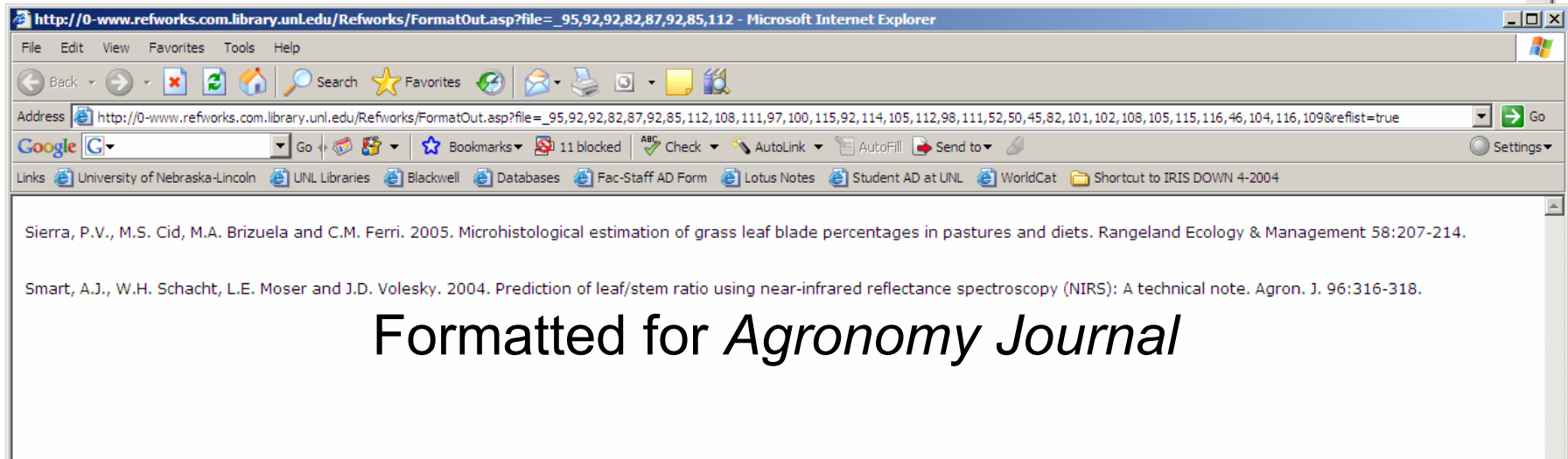
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Title: Microhistological estimation of grass leaf blade percentages in pastures and diets  
Periodical, Full: [Rangeland Ecology & Management](#)  
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Pub Date Free Form: MAR  
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Issue: 2  
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Periodical, Full: [Agronomy Journal](#)  
Periodical, Abbrev: [Agron.J.](#)  
Pub Year: 2004  
Pub Date Free Form: JAN-FEB  
Volume: 96  
Issue: 1  
Start Page: 316  
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<input type="checkbox"/>	63	<a href="#">J ANIM SCI</a>	0021-8812	13026	1.360	1.750	32	>10.0
<input type="checkbox"/>	64	<a href="#">J APPL ANIM RES</a>	0971-2119	103	0.132	0.051	59	5.4
<input type="checkbox"/>	65	<a href="#">J APPL POULTRY RES</a>	1056-6171	625	0.737	0.092	98	6.2
<input type="checkbox"/>	66	<a href="#">J AQUAT ANIM HEALTH</a>	0899-7659	807	0.742	1.267	45	7.2
<input type="checkbox"/>	67	<a href="#">J AVIAN MED SURG</a>	1082-6742	158	0.368	0.030	33	5.5
<input type="checkbox"/>	68	<a href="#">J CAMEL PRACT RES</a>	0971-6777	93	0.174	0.000	15	
<input type="checkbox"/>	69	<a href="#">J COMP PATHOL</a>	0021-9975	1811	1.030	0.195	77	>10.0
<input type="checkbox"/>	70	<a href="#">J DAIRY RES</a>	0022-0299	2402	1.620	0.060	83	>10.0
<input type="checkbox"/>	71	<a href="#">J DAIRY SCI</a>	0022-0302	17340	2.240	0.381	467	9.3
<input type="checkbox"/>	72	<a href="#">J EQUINE VET SCI</a>	0737-0806	342	0.389	0.132	38	>10.0
<input type="checkbox"/>	73	<a href="#">J EXP ANIM SCI</a>	0939-8600	62	0.214	0.000	4	
<input type="checkbox"/>	74	<a href="#">J FELINE MED SURG</a>	1098-612X	271	1.137	0.122	41	3.5
<input type="checkbox"/>	75	<a href="#">J FISH DIS</a>	0140-7775	1836	1.661	0.241	79	8.6
<input type="checkbox"/>	76	<a href="#">J MED ENTOMOL</a>	0022-2585	3402	1.489	0.190	158	8.7
<input type="checkbox"/>	77	<a href="#">J MED PRIMATOL</a>	0047-2565	640	1.480	0.200	40	9.2

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<input type="checkbox"/>	7	<a href="#">ANIM REPROD SCI</a>	0378-4320	2767	2.136	0.222	153	5.8
<input type="checkbox"/>	8	<a href="#">REPROD DOMEST ANIM</a>	0936-6768	796	1.835	0.111	81	4.1
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<input type="checkbox"/>	12	<a href="#">VET J</a>	1090-0233	893	1.712	0.337	104	4.1
<input type="checkbox"/>	13	<a href="#">FISH SHELLFISH IMMUN</a>	1050-4648	1291	1.696	0.494	77	5.3
<input type="checkbox"/>	14	<a href="#">VET PARASITOL</a>	0304-4017	4485	1.686	0.284	331	5.8
<input type="checkbox"/>	15	<a href="#">J FISH DIS</a>	0140-7775	1836	1.661	0.241	79	8.6
<input type="checkbox"/>	16	<a href="#">J VET INTERN MED</a>	0891-6640	2032	1.649	0.229	131	6.0
<input type="checkbox"/>	17	<a href="#">VET IMMUNOL IMMUNOP</a>	0165-2427	3227	1.626	0.297	195	6.7





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