

FROM THE GROUND UP

Cooperative Extension
Colorado State University
Department of Agronomy
Fort Collins, Colorado 80523
(303) 491-6201
FAX: (303) 491-0564

AGRONOMY NEWS

Volume 15, Number 6

July 1995

TABLE OF CONTENTS

Foundation Wheat Seed	1
National Pesticide	
Telecommunications Network	2
Forage Analysis	2
Dry Bean Field Days Set for Eastern Colorado	3
Collaborative On-Farm Testing Update	4

FOUNDATION WHEAT SEED

Foundation seed of several wheat varieties is available once again this year from Colorado State University. Seed of the following varieties will be available this fall:

Akron	Baca
Halt	Jules
Lamar	Sandy
TAM 107	TAM 200
Vona	Yuma

Foundation Halt Wheat will only be available to those individuals who have signed a licensing agreement. Prices for most varieties will be \$35.00 per hundred.

To order foundation seed, call the Colorado Seed Growers Association office at 970/491-6202. We can also assist anyone looking for other varieties not listed here. □Stanelle

Schuyler Barley
Presto Triticale

Most of the varieties should have ample quantities to cover all requests. Orders should be made by August 14.

NATIONAL PESTICIDE TELECOMMUNICATIONS NETWORK

The National Pesticide Telecommunications Network (NPTN) is a toll free telephone service which provides objective, science-based information to the general public and the medical community about a variety of pesticide related issues. Areas covered include:

- ▶ pesticide products information
- ▶ pesticide poisoning recognition and management
- ▶ toxicology and symptomatic reviews
- ▶ health and environmental effects
- ▶ clean-up and disposal procedures

NPTN can be accessed by dialing (800) 858-7378 Monday through Friday between the hours of 7:30 a.m. - 5:30 p.m (Mountain Time). Oregon State University will operate the network for the next five years under a \$2.5 million grant from the Environmental Protection Agency. NPTN will soon become available on the Internet. □Apley

FORAGE ANALYSIS

The Soil, Water and Plant Testing Laboratory has started a forage testing service to meet the needs of individuals who desire lab analysis of forages based on wet chemical methods. Although Near-Infrared Reflectance Spectroscopy (NIR) and wet chemistry methods compare well for crude protein (CP), acid detergent fiber (ADF), and neutral detergent fiber (NDF), wet chemistry methods are more accurate for minerals and for forage and total mixed rations (TMR). In comparing NIR to wet chemistry methods, wet chemistry methods cost more and require a longer turnaround time for sample analysis (3-5 days). Wet chemistry methods, however, provide the accuracy

needed for fine tuning the cation-anion balance of a ration and does not rely on predicted values for nutrient content.

The Soil, Water and Plant Testing Laboratory is currently participating in the certification program sponsored by the National Forage Testing Association (NFTA). The certification program involves analyzing six samples throughout the year and comparing test results to known values for such parameters as dry matter, protein, ADF, NDF, and minerals. The Soil, Water and Plant Testing Laboratory has done quite well on the first several samples that have been submitted. Official certification by NFTA, however, is not finalized until the end of the year after having analyzed all six samples.

A basic routine forage analysis includes moisture, dry matter, ash, CP, crude fiber, ADF, NDF, digestible energy, net energy, metabolizable energy, total digestible nutrients, and relative feed value index. The cost of a routine forage analysis is \$25.00 per sample. The laboratory also provides mineral analysis of forages. Mineral analysis includes phosphorus, potassium, calcium, magnesium, iron, manganese, zinc, copper, sodium, boron, and molybdenum. The cost of mineral analysis is \$20.00 per sample. The cost for a routine and mineral test together is \$32.00 per sample. Single element tests are also available and individuals requesting single element analyses should contact the lab for pricing. □Self

DRY BEAN FIELD DAYS SET FOR EASTERN COLORADO

Colorado State University Cooperative Extension, Colorado Experiment Station, and the Colorado Dry Bean Administrative Committee will sponsor the Colorado Dry Bean Field Days on August 23 and 25, 1995. The locations, dates, cooperators, and directions to the sites are shown in the table below.

The field days will feature presentations by local Cooperative Extension agents and dry bean specialists from Colorado State University. Participants will also be able to tour the field plots and see the newest bean varieties at each site. Mark your calendars now for this important event.

Location Time / Date	Grower	Local Extension Contact	Directions to the Site
Holyoke, CO 10:00 A.M. August 23, 1995	Jim Hendrix Wray, CO	Jim Zizz Wray, CO 970-854-3616	15 miles S of Holyoke on Hwy 385, Plots on W side of road.
Julesburg, CO 4:00 P.M. August 23, 1995	Kent Gerk Julesburg, CO	Gary Lancaster Julesburg, CO 970-474-3479	From Julesburg, go W on 138, go $\frac{3}{4}$ N on Hwy 11, Plots on W side of road.
Wiggins, CO 4:00 P.M. August 25, 1995	Pete Krohn Brush, CO	Bruce Bosley Ft. Morgan, CO 970-867-2493	From Brush, go 1 mi. W on Hwy 34, Turn S on Rd 26 to Rd R, Plots on SW corner of intersection.

▣Brick

**COLLABORATIVE ON-FARM TESTING
UPDATE
Winter Wheat Variety Drill-Strip Test**

There was a good response by growers during wheat and crop management field days to our request for volunteers to conduct on-farm tests of winter wheat varieties (Halt vs TAM 107). Forty growers from ten counties have expressed interest in conducting on-farm variety tests in the coming year. We will have a planning meeting on 25 July to finalize the choice of varieties and make other test design decisions. After the meeting, I will be calling all of the growers who have expressed interest in conducting trials to confirm participation and make plans for delivery of seed and simple test instructions.

Where trade names are used, no discrimination is intended, and no endorsement by the Cooperative Extension Service is implied.

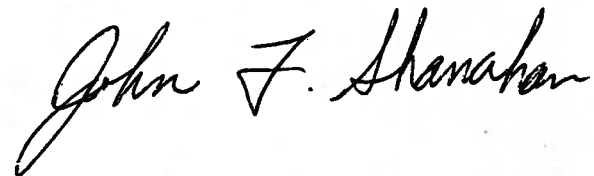
One research objective of this trial is to attempt to determine levels of Russian Wheat Aphid resistance using aerial photography. A Colorado Springs- based firm, SISCO, has expressed interest in doing the photography and photo-interpretation of drill-strips. Extension entomologist, Frank Peairs, has volunteered to conduct ground surveys for RWA. Ground survey results and aerial image data can then be correlated to assess the reliability of determination of levels of RWA infestation via aerial photography.

We are also hoping to collaborate with USDA researchers to evaluate varietal differences for residue decomposition. The wide range of environmental conditions should allow us to detect any important varietal differences.
□J.Johnson

**CONTRIBUTING
AUTHORS**

Apley, Kathryn L.,
Extension Agronomist -
Environmental and Pesticide
Education,
Colorado State University
Brick, Mark A.,
Extension Agronomist -
Bean Production,
Colorado State University
Johnson, Jerry J.,
Extension Agronomist -
Crop Production,
Colorado State University
Self, James R.,
Manager, Colorado State University
Soil Testing Laboratory
Stanelle, James R., Manager,
Colorado Seed Growers
Association,
Colorado State University

Sincerely,



John F. Shanahan
Editor and Extension Agronomist