

2014 Soybean Management Field Days

Loren Giesler

Use & Copyright

The materials in this document were developed by and for use by University of Nebraska–Lincoln Extension in the Institute of Agriculture and Natural Resources. The materials are copyrighted by the Board of Regents of the University of Nebraska–Lincoln on behalf of the University of Nebraska-Lincoln Extension. All rights are reserved.

Copies may be printed for individual personal use; however, these materials can not be republished in print, on another Web site or used commercially without prior written permission. To seek permission to print a publication for educational use, please email us at dpittman1@unl.edu.

Disclaimer

Reference to commercial products or trade names in these publications is made with the understanding that no discrimination is intended and no endorsement by University of Nebraska-Lincoln Extension is implied.

Copyright 2014 University of Nebraska-Lincoln Extension

N Budgets (lbs/ac)

Yield(bu/ac)	40	80
N in grain (6.75%)	141	282
N in residue (1.55%)	32	65
Root N (24%)	62	127
Total Plant N	257	531
N from N₂ (52%)	133	369 (69%)
Removal balance	-19	44

Salvagiotti et al. 2008. Nitrogen Uptake, fixation and response to fertilizer N in soybeans. Field Crop Research.

2014SMFDStoryboards-GIESLER (1)

Total N rate

(lbs/acre)

V3 Growth

<u>Treatments</u>	<u>Stage</u>	<u>Product</u>
1	0	-
2	50	UAN
3	100	UAN
4	0	-
5	50	Nfusion
6	100	Nfusion

2014SMFDStoryboards-GIESLER (2)

Fungal Seedling Diseases

Using from 2013



Rhizoctonia



Phytophthora

2014SMFDStoryboards-GIESLER (3)

Phytophthora Root and Stem Rot

Using from 2013



Requires specific fungicides and tolerance (most rated to Race 25)

Fungicides (metalaxyl and merenoxam) require increased rates

➤ Improve field drainage

2014SMFDStoryboards-GIESLER (4)

Sudden Death Syndrome (SDS)

Management


Using from 2010

- Avoid early planting
- Variety selection
- Seed treatments have not shown to be effective.



2014SMFDStoryboards-GIESLER (5)

Stem and Root Rots



- White Mold
- Brown Stem Rot
- SDS
- Charcoal Rot
- TRSV

2014SMFDStoryboards-GIESLER (6)