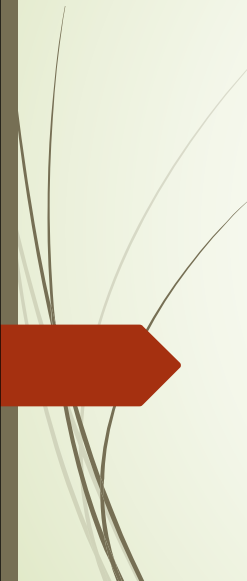


2024 Iowa Roadside Conference

Seed, Spray and Stable Soil

STABILIZING **SUBSOIL**



1



H Avenue
Early 2011

1:1 slope
kept sloughing

2



Fall 2011
Graded back to 3:1
5'+
soil removed
Hydroseeded on
existing subsoil

3



9-20-2024

4



Soil type:
Gara-Armstrong
Only 7"-8" topsoil

5



Soil Prep

6

LRTF funded



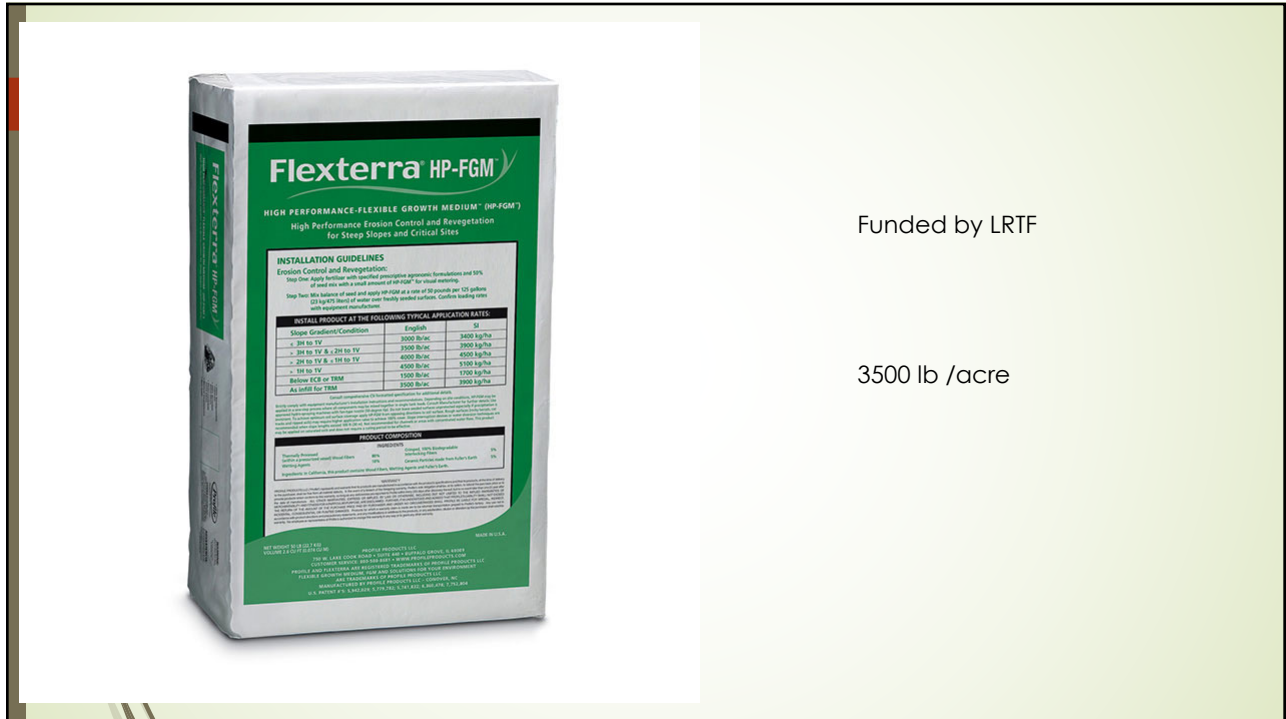
3500 lb/acre
57% peat moss
40% Flax Fiber/Straw
2% trace minerals, sugars, starches and proteins
1% mycorrhizae and bacteria

70 lbs/acre Earthbound Scientific
Tackifier was also added

7



8



Funded by LRTF

3500 lb /acre

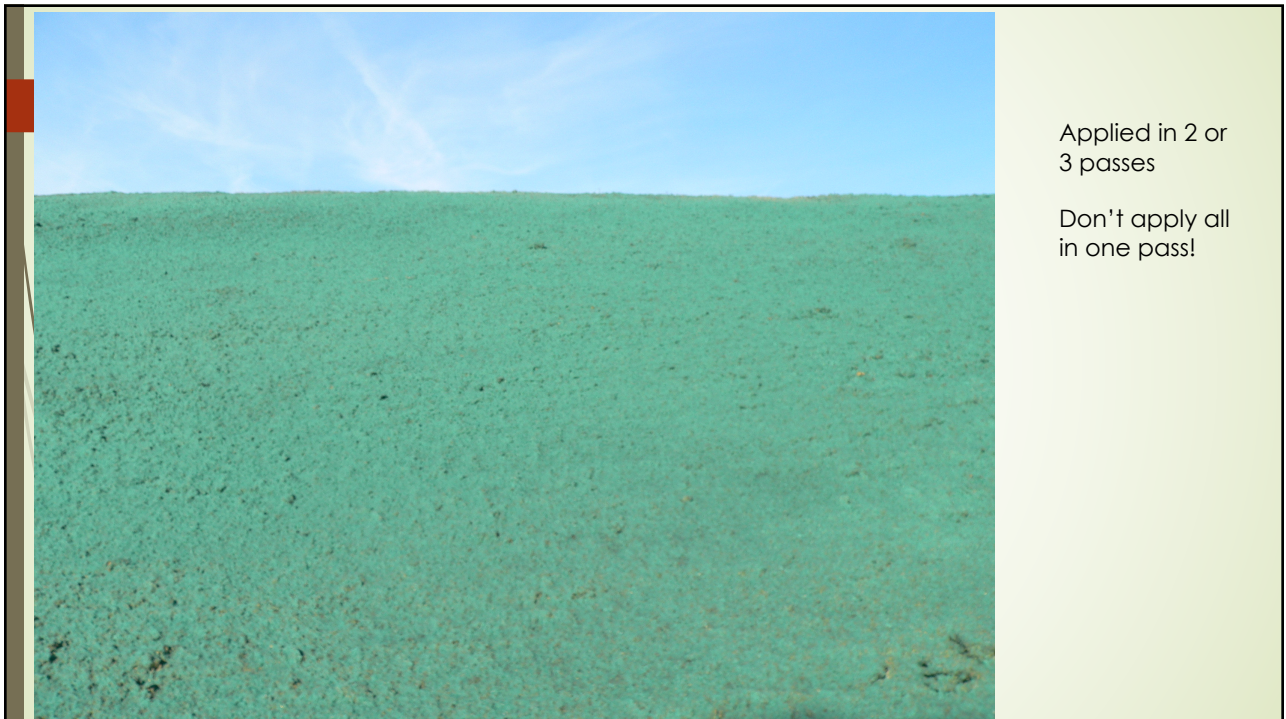
9



10



11



Applied in 2 or
3 passes

Don't apply all
in one pass!

12



Oct 13, 2011
(1 month later)

13



Annual Rye Germination:

30%-71%

Winter Wheat
Germination:

60%-96%

14



March, 7 2012
(6 months later)

15



Purple=
Phosphorous
deficiency

Come to find
out it says in the
soil survey...

"The subsoil
has a low or
very low supply
of phosphorous
and low supply
of potassium."

16

Plant Marvel Seed Starter Special

One of the finest fertilizers we have ever used for hydro seeding. This 16-45-7 water soluble fertilizer will produce great results for your jobs.



One 25 lb bag over 0.6 acres

17



April 9, 2013
(7 months later)
1 month after
fertilizer

18



19

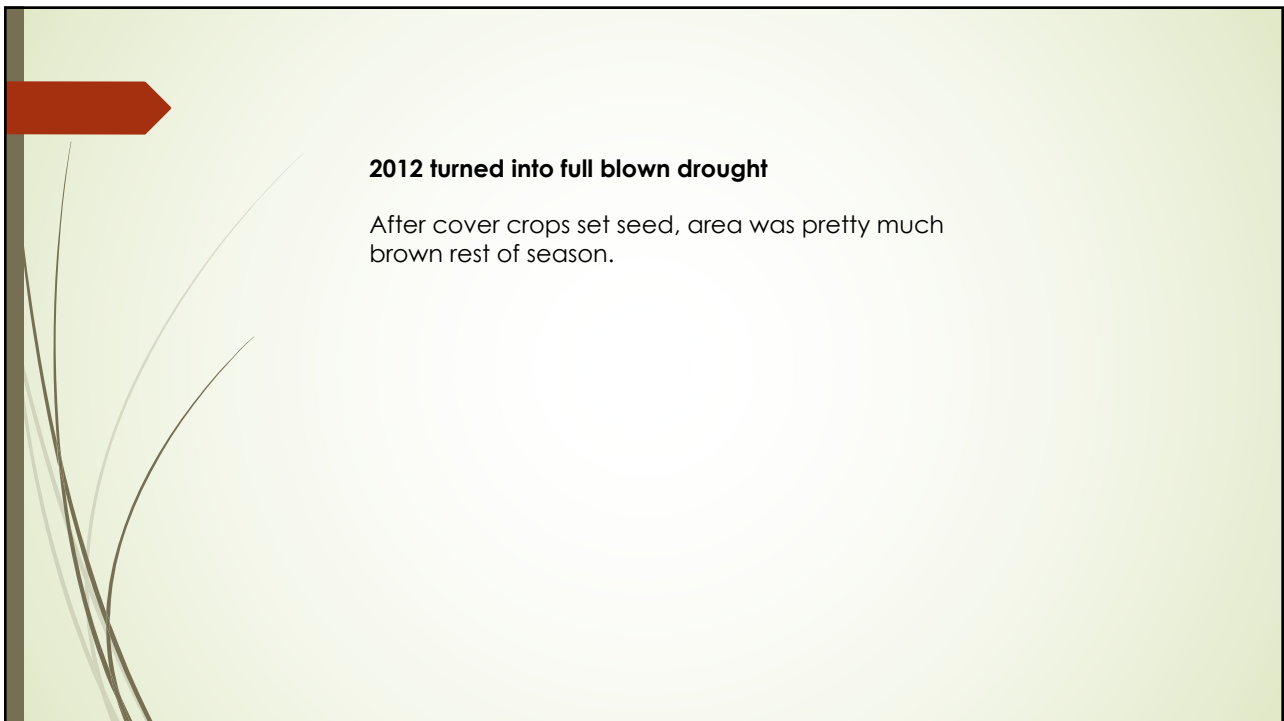


20



60 lb (1.2 bags) spread over 0.6 ac

21



22



May 30, 2013
(1.5 year later)
Nearly Solid
Volunteer nurse
crops

23



Aug 30, 2013
(2 years later)

24



Legumes going to seed

25



Aug 11, 2014
(~3 Years later)

26



27



28



29

A decorative slide with a light green background. On the left side, there is a red arrow pointing right and some thin, dark lines representing grass. The text is centered on the slide.

If clay subsoil will hold moisture...

Do we need to add all of the peat moss and organic fibers?

30



Extra coat of mulch +

3 bags 6-45-7 fertilizer
(75lb/ac)

1 gal Quantam Light

12 pounds Finn E-Tack

Seeded August 29, 2019
Photo September 11, 2019

31



Near vertical slopes

32



33

Moral of the story.....

- Some clay subsoils can be stabilized with hydroseeding
- 3 needed ingredients
 - Microbial Life
 - Nutrients (i.e. Fertilizer)
 - Enough mulch and tack to hold things in place

34