



# Buffalo Brand

SHARP BROS. SEED CO.



WILDFLOWERS • NATIVE GRASSES • FORAGES • ALFALFA • COVER CROPS • TURF • WHEAT • WILDFLOWERS • NATIVE GRASSES





# VAUGHN SOTHMAN

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Senior Product Advisor, CCA

# Coffee Shop Talk - Cover Crops

“They steal all my moisture...  
I don't have enough moisture to  
grow my current crop.”

More common  
- comment -  
“West vs. East”



# EAST vs. WEST NORTH vs. SOUTH



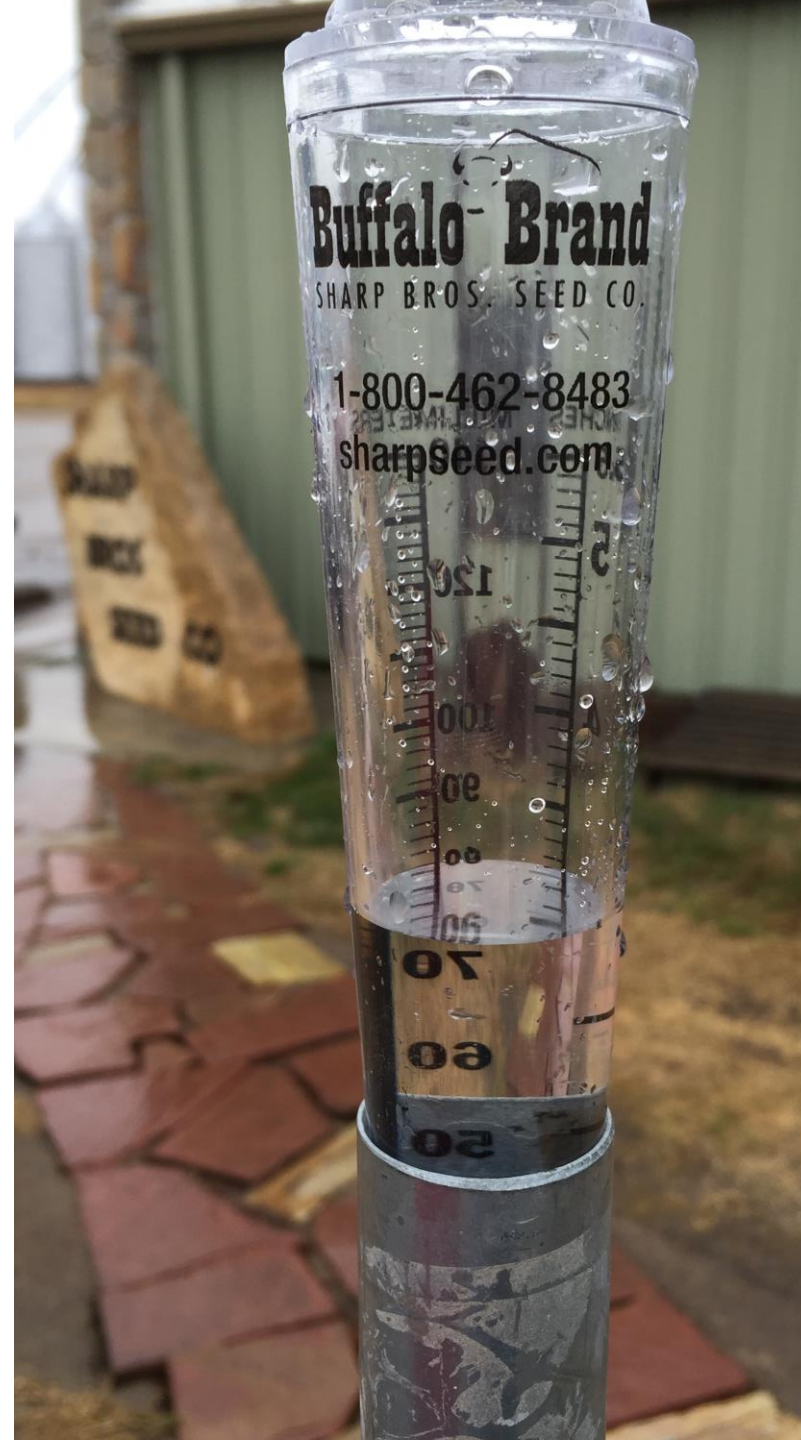
# ELEVATION DIFFERENCES



# RAINFALL

Do we have enough rainfall?

How much moisture is in my soil profile?



# What Benefits Do Cover Crops Have on My Farm?

Soil Health

Hard Pan Breakup

Nitrogen Fixation

Water Infiltration

Increase Organic

Matter Content

Erosion Control

Crop Diversity

AND.....





**GRAZE/HAY**  
**BETWEEN CASH GRAIN CROPS**



# Components of Cover Crop Mixes

**Grasses**

**Legumes**

**Brassicas**



# Cereal Grasses

- Forage Sorghum
- Sorghum Sudangrass
- Barley
- Oats
- Hybrid Pearl Millet
- Wheat
- Triticale
- Annual Ryegrass

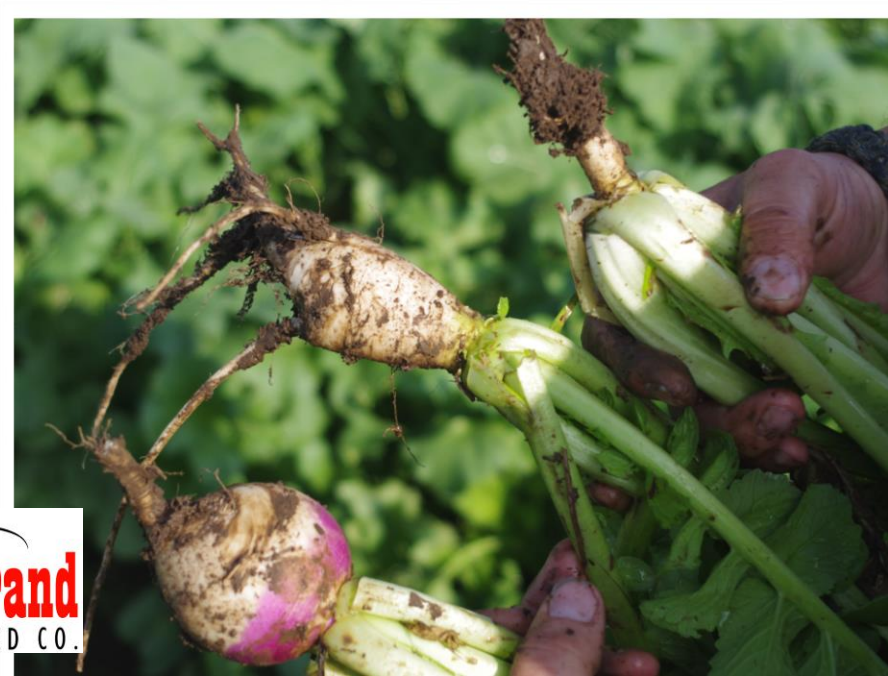
# Legumes

- Forage Peas
- Cowpeas
- Vetch
- Clovers
- High Protein Forage
- Rapid Nutrient Release
- Fixes Nitrogen In Soil



# Brassicas

- Cool Season Annuals
- Suppress Weeds
- Breakup Soil Compaction
- Palatable
- Nutrient Recycling
- Radishes- Tillage, Grazing, Daikon
- Cabbage
- Mustards
- Hybrid Forage Brassicas



# COOL SEASON

Forage Peas  
Radishes  
Turnips  
Vetch  
Clovers  
Oats  
Small Grains

# WARM SEASON

Cowpeas  
Forage Sorghum  
Sorghum Sudangrass  
Hybrid Brassicas  
*(non-bolting species)*



# Selecting Cover Crop Mixes

**Time to ask 20 questions about YOUR needs!**

- When to plant?
- Cover Only?
- Grazing?
- Soil Health?
- Haying?
- Do you want mix to freeze out or over winter?



# Cover Crop Mix Philosophy

- Simple cost effective mixes that work
- Less exotic mixes than some other companies, yet include grass, legume and brassica components that maximize benefits
- 4-6 species in a mix
- Willing to add more species if proven beneficial for your farm
- Brassica's are key components in most mixes
- Hybrid Brassicas are vastly superior in biomass production and have other excellent traits



# HYBRID BRASSICAS

**SUPERIOR  
BIOMASS  
PRODUCTION**





# HYBRID BRASSICAS

Leaf Size Is 2-3 Times Larger

Will Not Bolt as Early When Spring Planted

Multiple Regrowth Cycles



# TORO RADISH REGROWTH



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# DAIKON RADISH



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# GRAZA GRAZING RADISH



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# HUNTER FORAGE TURNIP



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# HUNTER FORAGE TURNIP



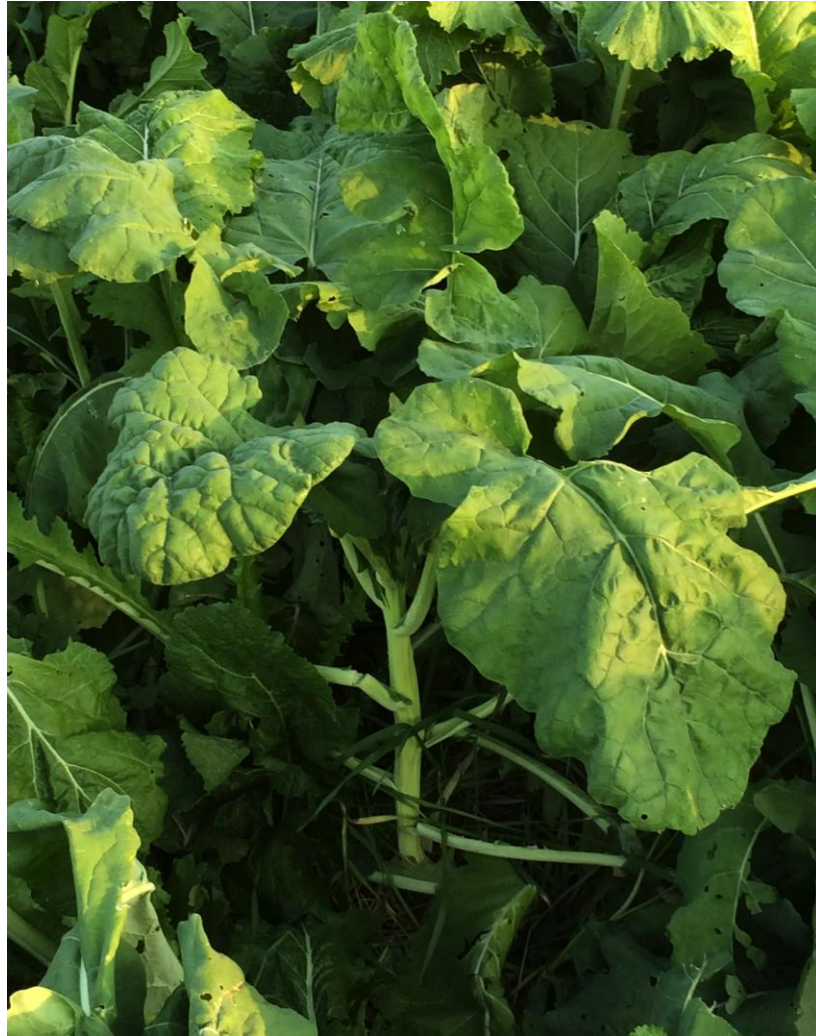
  
**Buffalo Brand**  
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# WINFRED FORAGE RAPE



  
**Buffalo Brand**  
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# WINFRED FORAGE RAPE



  
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## WHICH IS BETTER?

*Which will you buy?*

### Daikon Radish & Purple Top Turnip

- Quick to bolt in the spring/ may bolt in the fall
- No regrowth if grazed
- Leaves are ½ the size of Hybrid Brassicas
- Cheaper seed
- May have lower quality of seed

### Hybrid Brassicas

- Will not bolt when planted in the spring or fall
- Capable of 2-3 cycles of regrowth when grazed
- More biomass
- Consistent Quality seed

# Spring Mix Components

- Forage Peas
- Oats
- Hybrid Brassicas
- Grazing Radish (if grazing)



# Spring Cropper Mix

40 Lbs. Oats

20 Lbs. Forage Peas

2 Lbs. Radish

1 Lb. Forage Turnip

1Lb. Forage Rape



2015 Northwest, Kansas  
Irrigated



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**COVER CROP - SPRING CROPPER**

**Rawlins County, Kansas**

# SPRING CROPPER MIX



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Calumet, Oklahoma

# Summer Mix Components

- Forage Sorghum or Sorghum Sudangrass (*if grazing*)
- Cowpeas
- Radishes
- Hybrid Brassicas



2015 Colby, Kansas  
Irrigated

# Wheat Cropper Mix

*Plant after wheat harvest*

25 Lbs. Cowpeas

5 Lbs. Grazex III

2 Lbs. Radish

1 Lb. Forage Turnip

1 Lb. Forage Rape



# Wheat Cropper Mix



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2015 Colby, Kansas  
Irrigated



# Fall/Winter Mix Components

- Barley
- Wheat
- Cereal Rye
- Triticale
- Annual Ryegrass
- Forage Rape
- Radish
- Forage Turnip
- Sunflower



# FALL MIX



2015 Great Bend, Kansas  
Dryland

  
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# Fall Cropper Mix Dryland

Partially Grazed



2014 Salina, Kansas  
Dryland

# Fall Cropper Mix Dryland

*How does facultative growth habit effect triticale and barley in your grazing mixes?*



2014 Brewster, Kansas

# Fall/Winter Mix Components

## Killed By Freezing Temperatures

- Oats
- Forage Sorghum
- Sorghum Sudangrass
- Forage Peas
- Hybrid Brassicas
- Brassicas



2015 Goodland, Kansas  
Minimal Irrigation



## Sharp Bros. Nema Till Mix

We are leading the industry by utilizing seed coatings in the Nema Till Mix. The seed coating is designed to enhance stand establishment and improve canopy penetration when seeded aurally. The Nema Till Mix was formulated to promote bio tillage and suppress nematodes thru bio-fumigation.

# Sharp Bros. NemaTill Mix

- Aggressive biological tillage
- Natural biological nematode suppression
- Exceptional nutrient recycling to the soil surface
- Can be aerially applied over crops
  - Corn at black layer stage
  - Soybeans at leaf yellowing
  - Sunflowers 1 month before harvest
  - Wheat stubble
- Irrigation or precipitation shortly after seeding will greatly enhance germination



# Sharp Bros. NemaTill Mix



5 Lbs.  
**Toro Tillage Radish**

3 Lbs.  
**Pacific Gold Brown Mustard**  
*- Coated*

2 Lbs.  
**Corinne Ethiopian Cabbage**  
*- Coated*



# Sharp Bros. NemaTill Mix



- 14 days after seeding in northwest Kansas- Dryland

# Sharp Bros. NemaTill Mix



- 18 days after seeding in northwest Kansas- Dryland

# Sharp Bros. NemaTill Mix



*Could be  
knee high  
in 30  
days!*

- 33 days after seeding in northwest Kansas- Dryland

# COVER CROP RECAP

- Plant in a timely fashion (early August)
- May have to aerial apply into standing crops
- Hybrid Brassicas have larger leaves, more biomass and regrowth opportunities.
- If you have livestock and plan to graze in the fall, there is a big opportunity for soil health and grazing returns.

# NemaTill MIX INTO DRYLAND WHEAT STUBBLE - AERIAL



Northwest, Kansas

# FALL CROPPER MIX



  
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# FALL CROPPER MIX INTO HAIL DAMAGED CORN - AERIAL



# FALL CROPPER MIX - DRYLAND





# FALL CROPPER MIX - DRYLAND



# SUPPLEMENTING WITH DRY FORAGE



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# SYNERGY IN MIXES



# MIXTURES > MONOCULTURES





What can we mix for you?



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# SPECIALTY MIXES



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# SPECIALTY MIXES



*“Cover the world with cover crops.*

*Plant Early, plant often, use a high seeding rate and make  
sure it's seed from Sharp Bros. Seed Co.!”*



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