

Tire Technologies, Tips For Taking On Today's Tough No Till Residue

Scott Sloan

Ag Product Manager

Titan Tire

January 15, 2014

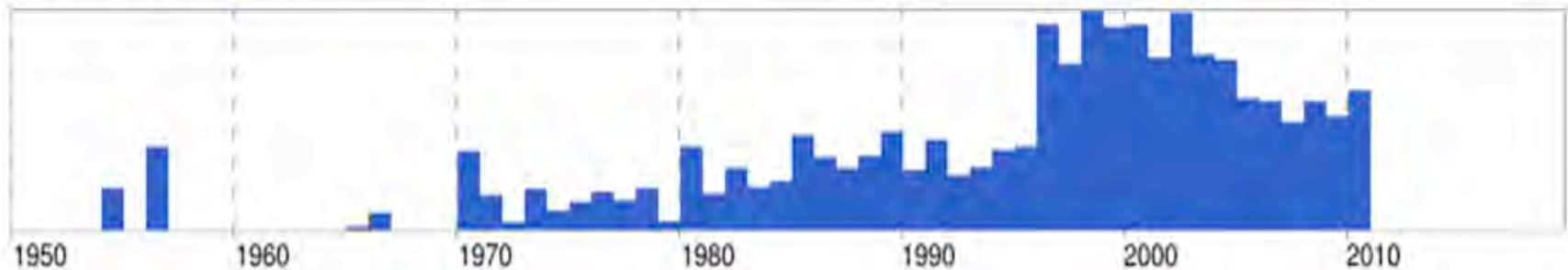


Causes of Stubble Damage

Tougher Hybrids - Seed Technology

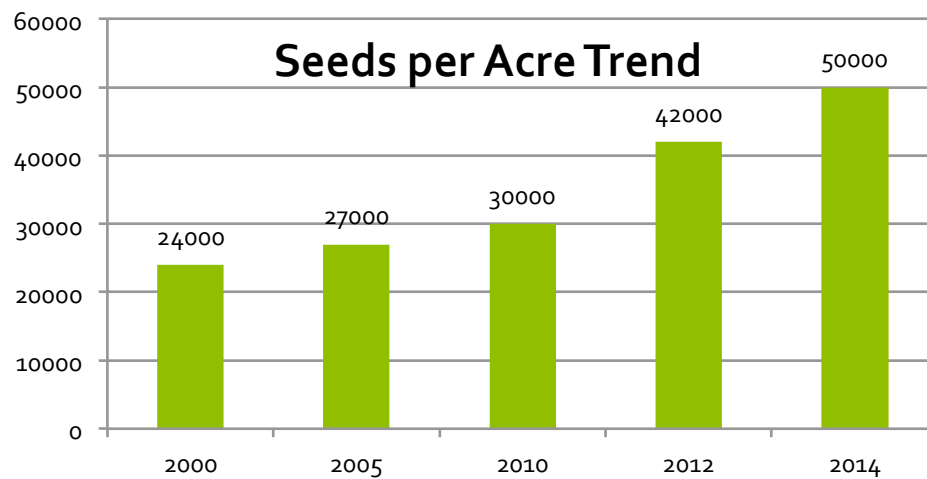
- Number of corn genetic patents since 1950
- Most advances on the farm in the past 10 years have been made in the seed bag

1950-2011 [Search other dates](#)



Causes of Stubble Damage

- Exposure
 - Seeds per acre has all but doubled
 - More opportunity for damage



Causes of Stubble Damage

Weather Conditions

- Dry - Drought



Causes of Stubble Damage

Weather Conditions

- Frozen



Causes of Stubble Damage

- Shorter Cut Stalks
 - No chance for stalk to be pushed over by the tire
 - Damage not only on the deck but on the lug face



Stubble Damage

300 Hours in Nebraska Brand "F"



Stubble Damage

300 Hours in Nebraska Brand "M"



Stubble Damage



Stubble Damage

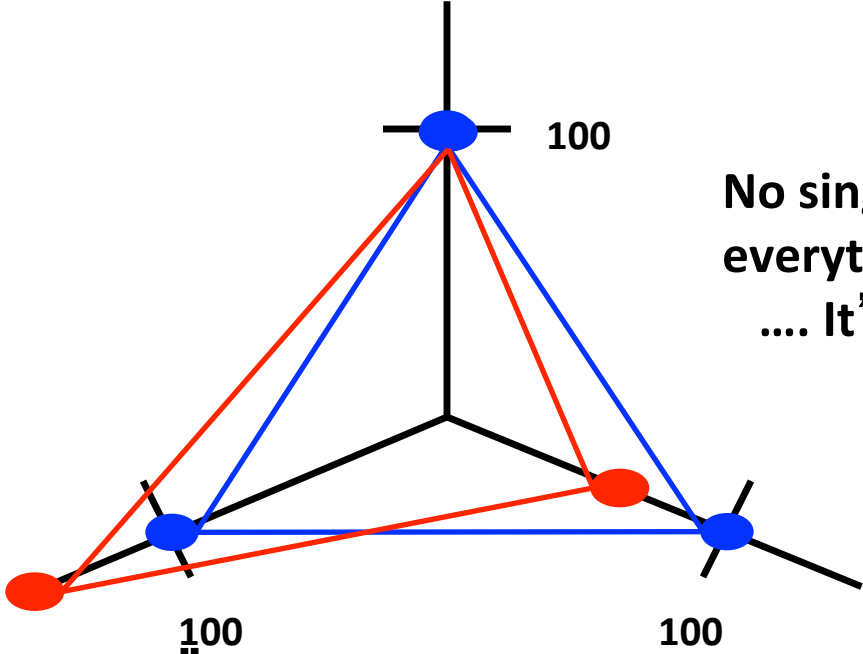
- What are we doing?
 - New Constructions
 - Unconventional materials - Kevlar
 - New tread compounds
 - Additives for improved resistance
 - 1st Quarter 2014
 - Release of new improved compound
 - Begin testing on radical new compound

**TOP
SECRET**



RUBBER COMPOUND MAGIC TRIANGLE

Wear Resistance



No single compound does everything....
.... It's all about compromise.

“Stubble Resistance”

Crack Resistance



The Only Tire Design 100% Stubble Resistant



New Tire Technology –Stubble Guard Imp

Original 10.00-15FI Highway
Service (OE Tire)

- 2,139 acres planted in 2010
- 1,239 acres no-till beans, 900 acres tilled corn
- 6 flat repairs



New Tire Technology –Stubble Guard Imp

New Stubble Guard Tire

(10.00-15SL) with Kevlar

- 2,307 acres planted in 2011
- 1,407 acres no-till beans, 900 acres tilled corn
- No flats



New Tire Technology –Stubble Guard Imp

Innovative Construction

Bullet Proof Vest Theory

- Multi Layer Construction
- Kevlar Belts



New Tire Technology –Stubble Guard Imp

Innovative Construction

Bullet Proof Vest Theory

- Improved Puncture Resistance
- Premium Stubble Resistant Compound
- Only Tire like it on the Market
- Full Range of sizes
 - 10.00-15SL 16pr
 - 9.5L-15SL 16pr
 - 11L-15SL 18pr
 - 12.5L-15SL 20pr



What Can a Grower Do?



Common Sense Approach

- “Insanity : Doing the same thing over and over again and expecting different results” - Albert Einstein
 - Continuing to run tires in the same conditions will result in the same outcome
 - Spending time and money on tire looking for a brand that works is not an economical option..stubble effects all brands of tires
 - Maybe a solution is more obvious and effective than you think.



The Ball Field Parking Mentality



The Ball Field Parking Mentality



Where do people tend **NOT** to park?

Why?



The Ball Field Parking Mentality



Answer:
1st and 3rd base line



The Ball Field Parking Mentality

Reason:

To reduce or eliminate the potential of a ball from damaging their vehicle.



The Ball Field Parking Mentality

The same applies to your tires.

Reduce or eliminate the potential of the stubble from damaging your tires



Sometimes the answer is more obvious than you think.



It's not about the Stubble

Simple Solutions to a Big Problem

<https://vimeo.com/66753575>.



It's Not About the Stubble

- Remove the nail from your forehead.
- Remove the stubble from in front of your tires.
 - Mechanical devices are simple and relatively inexpensive
 - Modifies the conditions you are running in.
 - Gets the stubble to start laying over



Stalk Smasher

<http://www.stalksmasher.com/contact.html>



Ringsted Welding and Fabrication
705 E. 240th Street
Ringsted, Iowa 50578
712.866.1693.



Yetter

<http://www.yetterco.com/>

Stock Roller



Yetter

<http://www.yetterco.com/>

Stock Roller



Yetter Manufacturing
PO Box 358
109 S. McDonough
Colchester, IL 62326 USA
Phone
309.776.4111
Toll Free
800.447.5777
Email
info@yetterco.com



May Wes

<http://www.maywes.com/index.php>



May Wes

<http://www.maywes.com/index.php>



May Wes

<http://www.maywes.com/index.php>



May Wes Manufacturing
120 Eastgate Drive SE
P.O. Box 7
Hutchinson, MN 55350
(800) 788-6483
techsupport@maywes.com

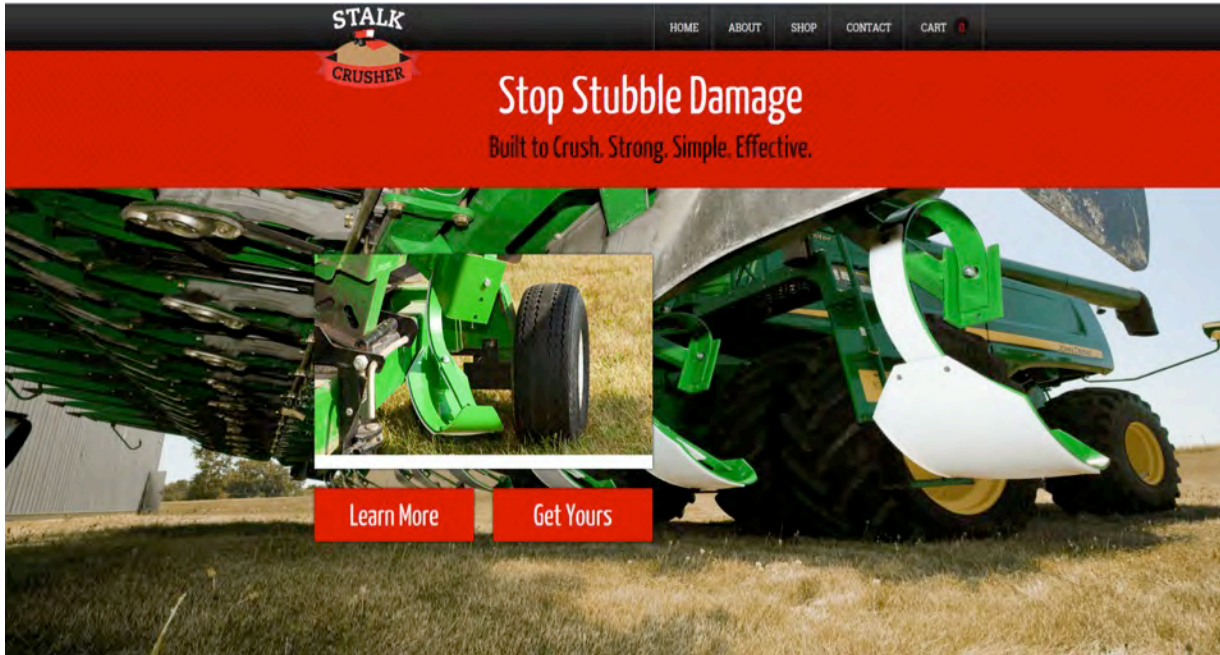
**22nd Annual
National
No-Tillage
Conference**

Springfield, Ill. • Jan. 15-18, 2014
An Honest No-Till Education

The logo features a stylized sun or flower icon with a central 'O' on a yellow background. Below the icon, the text "22nd Annual National No-Tillage Conference" is written in a bold, green font. At the bottom, it says "Springfield, Ill. • Jan. 15-18, 2014" and "An Honest No-Till Education" in a smaller, black font.

Stalk Crusher

<http://stalkcrushers.com/index>



STALK
CRUSHER

HOME ABOUT SHOP CONTACT CART

Stop Stubble Damage
Built to Crush. Strong. Simple. Effective.

Learn More Get Yours

Stalk Crusher
1441 Enterprise Drive
Adrian, MI 49221
PH: (517) 265-5759



22nd Annual
National
No-Tillage
Conference

Springfield, Ill. • Jan. 15-18, 2014
An Honest No-Till Education



Manco Mfg

<http://mancomanufacturing.com/>

Stock Roller



Manco Mfg

<http://mancomanufacturing.com/>

Stock Roller



Manco Manufacturing Inc.
43408 Road 786
Oconto, NE 68860-1255

Phone 308-858-4957



Stalk Benders

<http://www.stalkbender.com>



Eagle Wing, LLC
Haxtun, CO 80731
Phone(970)
774-6294



Stalk Benders

<http://www.stalkbender.com>



No Stubble More Options

- No stubble potential opens up more options without the risk
- The ability to go to wider tires to increase machine footprint
- Improve machine performance with less impact on yields
- Titan has developed Extreme Flotation configurations.



Extreme Flotation



Extreme Flotation



EXPERIENCE THE GOODYEAR® ADVANTAGE



E TREME FLOTATION

▲ FRONT: GOODYEAR SUPER TERRA GRIP XT LSW
REAR: GOODYEAR DT930



▲ STANDARD FACTORY TIRES

FRONT: GOODYEAR SUPER TRACTION RADIAL 420/85R34
CONTACT AREA: 732"
FRONT AXLE WEIGHT: 12,700 LB
AIR PRESSURE: 12 PSI

REAR: GOODYEAR SUPER TRACTION RADIAL 480/80R50
CONTACT AREA: 1444"
REAR AXLE WEIGHT: 15,530 LB
AIR PRESSURE: 8 PSI

TOTAL CONTACT AREA: 2176"



E TREME FLOTATION

FRONT: GOODYEAR SUPER TERRA GRIP XT LSW 1000/40R22
CONTACT AREA: 1156"
FRONT AXLE WEIGHT: 12,700 LB
AIR PRESSURE: 10 PSI

REAR: GOODYEAR DT930 1100/45R46
CONTACT AREA: 1560"
REAR AXLE WEIGHT: 15,530 LB
AIR PRESSURE: 6 PSI

TOTAL CONTACT AREA: 2716" (19.9% better than conventional)

GOODYEAR DT930 (rear)	
Size	1100/45R46
TU/TT	TL
PR/LSR Rating	177A/B
Industry Code	HF-3
Part Number	G8M716GY
Rated Load (lb)	16,100
Rated Inflation (psi)	23
Rated Speed (mph)	30
Recommended Rim (in)	38
Overall Diameter (in)	85.0
Overall Width (in)	43.3
Static Loaded Radius (in)	38.9
Rolling Circumference (in)	251
Flat Plate Contact Area (sq in)	780
Tire Weight (lb)	1000
Tread Depth (32nd)	77



GOODYEAR SUPER TERRA GRIP XT (front)	
Size	1000/40R22
TU/TT	TL
PR/LSR Rating	172A/B
Industry Code	HF-3
Part Number	G8G3F3
Rated Load (lb)	12900
Rated Inflation (psi)	41
Rated Speed (mph)	30
Recommended Rim (in)	36.0
Overall Diameter (in)	66.3
Overall Width (in)	39.4
Static Loaded Radius (in)	30.8
Rolling Circumference (in)	198
Flat Plate Contact Area (sq in)	578
Tire Weight (lb)	949
Tread Depth (32nd)	79

Contact your Titan/Goodyear Farm Tire dealer today for details ► www.titan-intl.com • 1.800.USA-BEAR

TOUGH. DURABLE. BUILT TO LAST.™

XF340 10.13A
American Engineered. American Manufactured. American Owned.
© 2013 Titan International, Inc. "TITAN" Rating: L. All Rights Reserved.
Goodyear is a registered trademark of The Goodyear Tire & Rubber Company.
Materials and specifications are subject to change without notice.





22nd Annual National No-Tillage Conference

Springfield, Ill. • Jan. 15-18, 2014

An Honest No-Till Education



Extreme Flotation

- Conventional Set Up

- 480/80R50 dual rear
 - 1444 sq/in of contact
- 420/85R34 dual front
 - 732 sq/in of contact

Total Machine Contact area

2176 sq/in vs. 2716 sq/in **19.9% more**

- Extreme Flotation Set Up

- 1100/45R46 single rear
 - 1560 sq/in of contact
 - **8% more**
- 1000/40R32 single front
 - Same tire on Terragator's
 - 1156 sq/in of contact
 - **37% more**



Extreme Flotation = Less Compaction

Less Compaction = Higher Yields

- 20% More contact area than conventional set-ups
- Improved Ride
- Improved Turning Radius
- Overall width is 4” narrower
- Less Compaction
- Better Yields
- <http://www.youtube.com/watch?v=bLp1TyVvWY0&feature=youtu.be>



Common Sense Approach

- Take an active approach to protecting your investment by minimizing the potential for stubble damage
 - Genetics and methods are changing every year, tires are on equipment for decades
 - With devices available today you can dramatically reduce the impact of stubble on your tires.
 - Reduced Stubble impact will allow for new flotation set-ups which will reduce compaction and improve yields.

–Don't Wait



Thank You

