



## MUFF AG SERVICES MARCH NEWSLETTER

**DELIVERY SEASON IS UPON US:** We have been busy delivering seed and crop protection products during these warmer temperatures. You will be receiving a call from Andy to setup delivery dates and times that best fits into your schedule. If you have a heated space and can take delivery, please let us know.



**CHANNEL SEED** ~ This month the focus is on: Channel **197-68 STX RIB corn**. This hybrid is available in SmartStax or as **197-66 VT2 Pro RIB**. This is one of the most proven hybrids in our portfolio having a history as a versatile product with a solid agronomic package. Being well adapted to all soil types is why this hybrid is one of the most popular hybrids under 100-day maturity. It is known for strong roots, stalks, and yield. Tremendous defense and drought tolerance makes this one of the best early hybrids in our lineup.

SmartStax SD COMPLEX	VTDoublePRO SD COMPLEX	GDUs to Mid-Pollination	GDUs to Black Layer	Seedling Vigor	Greensnap	Root Strength	Stalk Strength	Drought Tolerance	Harvest Appearance	Drydown	Stay Green	Test Weight	Plant Height	Ear Height	Growth Regulators Sensitivity	Pigment Inhibitors Sensitivity	Sulfonylureas Sensitivity	Anthrachnose Leaf Blight	Anthrachnose Stalk Rot	Eye Spot	Goss's Wilt	Gray Leaf Spot	NCLB	Common Rust
197-68STX	197-66VT2	1270	2425	2	2	3	3	2	3	2	3	3	MT	MH	A	A	A	3	4	2	3	3	4	3

As always, we have sweet corn seed ready to sell. We have a selection of Non-GMO, Glyphosate Tolerant, and Round-Up Ready Sweet Corn available for purchase. Please let us know soon!

Channel 2301RR2 soybeans offer top yields with a robust defensive package. This hybrid is best placed on high PH soils with good drainage and fertility. I have personally seen yields of this hybrid over 90 bushel on high PH soils. It's superior defensive and disease package sets it apart from the rest of the industry.

**CROP PROTECTION PRODUCTS** ~ This year there are more options for soybean herbicides with recent trait approvals than there have been in my lifetime. With weeds like Palmer Amaranth being in the North Iowa area, we need to keep in mind a couple of simple things before we spray our soybeans this year. A good soybean herbicide program has at least 4 modes of action being used throughout the season with at least 3 sites of entry to the plant. The more modes of action you use, from different chemical families, the better the chances for weed control and the lower the ability for herbicide resistance. Adding these additional modes places even more importance on proper mixing and application of products.

If you are applying your own products, we **STRONGLY** recommend reading each product label before mixing and application. Understanding mixing, safety, PPE requirements, storage and handling is vital. Any labels can be easily found on the product container or via Googling the product name and select the correct label.

**MIXING ORDER** ~ A little food for thought: A small dose of table salt seasons our food. A large dose of table salt (only two tablespoons) is fatal. No one puts warning labels on their salt shakers nor do they put skull and crossbones on the salt shaker, but table salt is much more dangerous than many of the pesticides on the market today. It is the dose, not the poison! Please take time to know and understand the products you are using throughout the season.

For Muff Ag Services customers, a mixing instruction list will be provided when chemicals are delivered. If you are not a Muff Ag Services customer, please be sure to check with your chemical supplier for proper mixing instructions. For a generic order for proper mixing order please see our website: [www.MuffAgServices.com](http://www.MuffAgServices.com)

**PRODUCT, PUMP & METER USAGE & RETURN POLICY** ~ We enjoy being able to offer this return policy and to be able to keep offering it we need to keep it within these specifications: Items must have been purchased from Muff Ag Services. All items must be returned by Sept. 15 of the current year. All seals on totes must not be broke. All jugs and bags must not be opened. All returns are subject to the Muff Ag owner's discretion. Owners and Applicators are responsible for correct mixing and storing the chemicals in the correct temperature and environment. Read the label or refer to our Quick Reference Guide in the Chemical book. If a tote is damaged the customer is charged a \$250 fee to replace the tote and the customer is responsible for the product that is lost. Pumps and meters broken or not returned by Sept. 15 are charged \$500.

**CLIMATE FIELDVIEW**~ We will be again selling Climate subscriptions and hardware if you haven't signed up we are always ready to set up your account and your hardware and move them from your combines to your planters. We can take previous years' data such as yield, planting, and soil tests and upload them to your account to give you a better scope of your operation.

**WEBSITE AND SOCIAL MEDIA UPDATES** ~ We just updated our website at [muffagservices.com](http://muffagservices.com) and at the bottom of our Homepage throughout the season you will see constant updates from us about issues that have arose throughout the country side as we scout fields, plant, and spray this season. Also, follow us on Twitter (@muffagservices), Instagram (muffagservices), and Facebook to see our updates!

Please don't hesitate to call and let us know how we can serve you.

  
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MIXING ORDER	TYPES OF PRODUCTS	EXAMPLES OF PRODUCT(S)	COMMENTS
1 <sup>c</sup>	Initial water	Water 1/2 full tank	Start agitation, continue throughout.
2 <sup>a</sup> (see notes)	AMS or water conditioners that do not contain drift reduction agents	Dry or liquid AMS, Speedway	Agitate, make sure dry AMS is fully dissolved before adding any pesticides.
3	Wettable powders (WP), dry flowables (DF), wettable dry granules (WDG)	Authority First, Axtrex 90 WDG, Status	Cold water generally requires more time to dissolve. Pre-slurry before adding for difficult mixtures.
4	Liquid flowables (F/L), suspensions (SE), soluble concentrates (SC)	Axtrex 40, Harness Extra (atx premixes), Callisto, Sharpen, Halex GT, Headline AMP, Headline SC	Allow product to dilute before proceeding to next step. Pre-slurry before adding for difficult mixtures.
5	Emulsifiable concentrates (EC)	FlexStar, Cobra, Harness, Cobalt, Lorban 4E (or generic equiv), Headline EC	For difficult mixtures, EC products may be diluted at a 1:2 ratio of EC: water prior to adding to tank.
6	Add more water	1/4 full tank	
7	Water soluble products (SL)	Roundup, Clarity, Extreme, Flexstar GT	Add products one at a time.
8	Foliar fertilizer products	SRN 20, Sovereign, Smart Trio	
9	Surfactants (NIS, CFC, HSOC, MSO) and deposition aids	ChemSurf, Succeed, Between, Premium, Downdraft, AirForce	Surfactants are generally added last <sup>b</sup> (see notes)
10 <sup>a</sup> (see notes)	Add drift reduction agents including liquid blends that include drift reduction agents.	Affect GC, AMSol Plus, DoubleDown, Ultra Lite, FastTrack, Sprint, Formula 1, AMSurf Xtra, Payoff Plus, AMS2000, AMS 20/10	Allow 3 minutes for hydration.
11	Finish adding water		

<sup>a</sup>North Dakota State University studies indicate no adverse effects from adding AMS or water conditioner concentrates later in the tank mixing order.  
<sup>b</sup>Some pesticides recommend being added last to the tank, e.g. (Warrior II with Zeon Technology).  
 Adding anti-foam (Foam Breaker) early in the mixing order will keep foam from interfering with the mixing procedure.  
 Always read and follow manufacturers product label.