



Cyclone Power Pullers

Iowa State University's 1/4 Scale Tractor Pulling Team

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2011 Update

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A Team Members (L-R): Ben Downing, Advisor Dr. Matt Darr, Andy Strobel and Travis Ohms work with Larry at competition in Peoria

Well it's the new year, and the Cyclone Power Pullers hope everybody is ready for 2011 to run its course. Over the past months the Cyclone Power Pullers A-Team has been hard at work designing our newest tractor. With the new rules this year, the 2011 tractor will no doubt have a different appearance than the last few tractors. New rules have presented new opportunities for innovation, and plenty of challenges as well. Along with A-Team's endeavors, our X-team has been making progress in their renovations of the 2010 tractor "Cydwinder". With competition getting closer and closer, the design is nearly completed and parts are coming in our doors. In addition to our new design, the Cyclone Power Pullers have made appearances at the Des Moines Product Show at the end of October and the early December National Quarter Scale Championship in Kansas City . We hope to see anybody who is free at the National Competition at Peoria, Illinois's Expo Gardens this year from June 2nd—5th.

“Some major rule changes have pushed designing the 2011 into a whole different ballpark. And we couldn’t be more excited” - Kent Thoreson



2011 Competition Rule Changes

For the 2011 Quarter Scale Tractor Competition, the rules have been greatly revamped. Since 2006 teams have been allowed to run an infinite number of engines (within what weight will allow of course) however, in 2011 teams will be limited to 1 or 2. They may either run 2 of the classic Briggs & Stratton 16hp V-Twin Engines, or a new Briggs and Stratton 31hp big block. In addition to the new engine requirements, different drive wheel limits have been imposed. Teams are still allowed to run a two wheel drive configuration, but the 4 wheel drive option has been replaced with a front wheel assist opportunity.

Along with these two main changes, a new hitch height requirement has been set at 13 inches. Weight classes have been changed from 1050 and 1550 lbs to 1000 and 1500 lbs to coincide with the updated weight requirement of 800 lbs.

These rule changes will certainly give competition a new look this year and hopefully will create room for some interesting new design concepts. The first year of the new rules will certainly prove to be a learning year, and we believe we have created a product that will be able to strongly compete for the 2011 title.



2010 X Team Members (L-R) Joe Randolph, Peter Horne & Kent Thoreson tear down the 2009 “Wild Cyde” at competition in Peoria

“Where do you put the mower deck on this thing?” - Balvin



“How fast do you think you could mow your lawn with this?” - Visitors at farm shows

2011 A-Team & X Team Design Preview

The 2011 rule changes have given us a variety of configurations to choose from. Two critical decisions were to implement the 31hp Briggs Big Block engine rather than the two 16hp engines, and to use the front wheel assist configuration rather than two wheel drive. The 2011 tractor is designed around being a reliable, maintenance free tractor. User friendly features include easily accessible driveline components, comfortable operator station, a custom exhaust system, and innovative electronic controls. We hope that with the new ideas being implemented into the 2011 tractor, we can not only excel in the pulls, but also in specific design judging areas.

Over the past few months the 2011 X-Team has been hard at work redesigning “CydeWinder”, the 2010 tractor. Simplification is the main goal of the team, while still maintaining the features that made “CydeWinder” stand out. The team is working to reduce the complexity of the electrical system to reduce the chances of issues arising. This will be done by moving from 4 ECU’s to just two and by implementing a mechanical linkage throttle to replace the quad solenoid system. With the weight of the tractor (850lbs max) coming into play with any design changes, the X Team is also looking to lighten any components possible. It is going to be a challenging semester for the X team, with a lot of work ahead.

Sponsorship

It’s never too late to become a sponsor of the Cyclone Power Pullers. Without loyal sponsors we would not be able to produce a tractor and compete at such a high level year and year out. Donations of cash, parts, or supplies are always welcome. The design team is currently in the process of purchasing parts for the 2011 tractor and we need your donations as soon as possible. Donations can be sent via our mailing address found in the sponsor recognition section. Also feel free to contact us by email at pnhorne@iastate.edu

Upcoming Shows

The Cyclone Power Pullers are please to be once again be exhibiting at two upcoming farm shows. The **Triumph of Ag Expo** at the Qwest Center in Omaha Nebraska March 9th & 10th and the AMC Conference at the Five Sullivan Brothers Convention Center in Waterloo Iowa on May 2nd—4th. Please stop by and take visit with team members about current happenings with the Cyclone Power Pullers

“Although our usual tractor pull was rained out, we took the chance to play in the mud “



Farm Progress Show



2011 A Team Member Eric Frederickson gets the 1999 tractor stuck at the track.

The Farm Progress Show was back in Boone, IA this year, which gave the Cyclone Power Pullers a few days to play in the mud. Although our usual tractor pull was rained out, we took the chance to drive around in the mud and allow fair-goers to see our tractors in action. We were also happy to welcome the Illinois and South Dakota tractor teams down for the show. Look for us next year in Decatur, Illinois!

9th Annual Sponsorship Pull



Tractor Team Supporter Morgan Frederickson pulls the 2005 tractor

The annual sponsorship appreciation pull is something our team looks forward to every year. This year the 9th annual sponsorship pull took place on October 9th and we couldn't have asked for a better day. The event was a great success with all of the great tractors that were competing and all of the sponsors that came out. We also enjoyed having several of the tractors with the MAPA pullers come out and pull with us.

Sponsor Recognition

Current Full Pull Club Sponsors



QUALITY MANUFACTURING CORPORATION

Current Cyclone Club Sponsors



2009-2010 Gold Club Sponsors

DR. & MRS. RAMESH KANWAR

MR. & MRS. JOHN FREDRICKSON

Current Silver Club Sponsors



Support the Cyclone Power Pullers!

Our team is actively seeking new sponsors for the 2010—2011 school year. If it were not for those who support our team, we would not be able to continue participating in the annual ASABE 1/4 Scale Tractor Student Design Competition. Because of this, we recognize our supporters using the following criteria:

Full Pull Club Sponsor: Donations valued at greater than or equal to \$5000 will be recognized on the team display board in addition to those recognitions given to Cyclone Club Supporters.

Cyclone Club Sponsor: Donations valued at less than \$5000 but greater than \$1000 will be recognized on the team trailer in addition to those recognitions given to Gold Club Supporters.

Gold Club Sponsor: Donations valued at less than \$1000 but greater than or equal to \$500 will be recognized on the team t-shirt in addition to those recognitions given to Silver Club Supporters.

Silver Club Sponsor: Donations valued at less than \$500 but greater than or equal to \$100 will be recognized on the team website, in the team newsletters, and on the 2011 tractor.

Bronze Club Sponsor: Donations valued at less than \$100 will be recognized on our team website.

For more information:

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