



Tractor Tread

Every Tractor has a Story

This 1946 Model LA belonged to my mother's great uncle. My parents purchased it at the estate sale and it worked in the family gardens for years. A blown head gasket landed it in the shop. After sitting for about a year, my grandfather worked on getting it back together but as a young child it felt like it was in that shop forever.

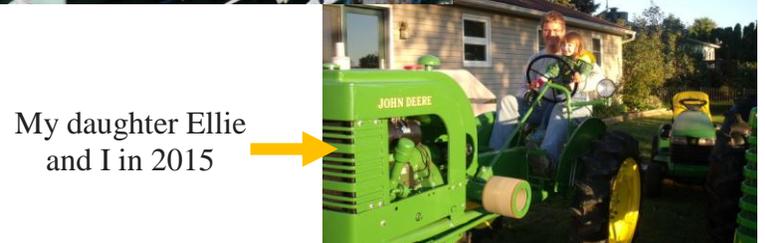
While it was apart, it got a new paint job and by that time I was old enough to drive it myself. I remember how proud I was to take it to the Steam-o-Rama in Windsor, PA and drive it around with all of the other nice looking show tractors. My best friend Zach and I still talk about running around at that show as kids and taking turns either driving or riding in the lawn cart that we pulled behind.

The years went by and the paint job started to fade and some more work was needed so it was pulled back into the shop. This time it did take forever to get it going again. I had started tinkering and then started college and working. Eventually my mother purchased a Mustang and the LA lost its space in the garage.

After sitting in either the garage or woods for 15 years, I loaded it up and brought it to Rough and Tumble. With some generous help from my Waterloo Boys friends, it is once again running. Now my children can grow up with this tractor just like I did.



My dad Carey and I
sometime around
1985



My daughter Ellie
and I in 2015

This is the story of one tractor. Every tractor has its own. For the next year, the Waterloo Boys wants to collect as many stories as possible, even for tractors that aren't green or yellow. Stories can be submitted to tractorstories@gmail.com. Alternatively, they can be mailed to: Jesse Knaub, 254 Old Leacock Rd., Gordonville, PA 17529. Please include pictures if you have them

We will also have a booth setup at the 2017 show to record stories for the 2018 show. Bring your pictures and stories and tell your story.

Mission

Dedicated to the preservation and education of our country's rich farm heritage, particularly the antique John Deere® two-cylinder tractors, implements, accessories, memorabilia, and literature.



President's Message

Greetings,

Winter came late with its cold and snow but while it arrived so close to spring, it didn't last long.

The Waterloo boys would like to plow in the middle of April, hope the weather cooperates.

We have a lot of projects going for tech night which will be held on the second and fourth Monday nights of each month. If you have any questions concerning tech night call Steve Koser.

We have had a few more pieces of equipment donated to the Waterloo boys museum this year. A John Deere drill is in already and a plow will be coming soon.

So get your tractors ready to bring to the John Deere Days at Rough and Tumble, event sponsored by the Waterloo Boys. The committee is putting a good show together so please come out and support them with your time and JD tractors. It will be a fun day.

Enjoy the spring and I'll see you at the shows.

Respectfully Submitted

Harvey Bashore, President

Officers

President:	Harvey Bashore	717-397-8880
Vice President:	Jesse Knaub	717-580-4094
2nd Vice President:	Morgan Foose	717-786-3423
Recording Secretary:	Harriet Clark	610-399-5334
Treasurer:	Ralph Curtiss	610-345-0374
Corresponding Sec.:	George Harris	610-932-4184
Chaplin:	Steve Koser	717-598-3849

Directors

(term expiry)Terms Expire at the end of December

Lester High (2017)	610-469-9360
Mark McNally (2017)	610-291-6656
Irvin Martin (2018)	717-656-4073
Richard Clark (2018)	610-399-5334
Ted Casey (2019)	717-354-9276
Steve Hill (2019)	717-529-6428

Sunshine Committee

For any news about members or their families, please contact:

Ruth Rutt : 717-653-4725
854 Musser Rd., Mt. Joy, PA 17552

Ed Wolfe : 302-737-2628
8 Spring Lake Dr., Newark, DE 19711

Newsletter Information:

The newsletter is published four times a year. Please send classifieds and special events of interest for newsletter publication to editor Katie Knaub at: 254 Old Leacock Road, Gordonville, PA 17529/ 717-471-3828 or email: tractorstories@gmail.com.

Silent Auction: Donations Needed

For several years, a group of highly dedicated volunteers have organized a silent auction during the Saturday of John Deere Days. Last year, the funds raised from this auction allowed the Waterloo Boys to purchase an industrial box fan to cool the building during hot summer days. In order to continue this event, we are looking for donations for the 2017 silent auction. Donations can be dropped off on the Friday of the show or on Saturday morning before 9:30. For more information, contact Barb McNally at 610-935-0222.

John Deere Days 2017: Volunteers Needed

We are looking forward to another great show. For 26 years, John Deere Days has been the annual showcase of the mission of the Waterloo Boys of Southeastern Pennsylvania and the show has continued on a growth trend. Several years ago, we outgrew the original location in the south west corner of the Rough and Tumble grounds so we moved to the grove of trees near our building. Last year we "raced" our Waterloo Boy against a steam traction engine to highlight the technological advancement that the gasoline engine offered to farming. This year, we are moving our antique tractor pull to Friday evening. See the full pull schedule on Page 9.

With the continuous growth that our show has experienced, we are always in need of additional volunteers. A successful show would not be possible without the dedication and support of the many people that invest hundreds of hours of sweat and labor. This year, we need even more volunteers to continue our growth. There's something for everyone including:

- Gate Attendants
- Museum Attendants
- Silent Auction Help
- Tractor Pull Help
- Membership Attendants
- Shuttle Drivers
- Cleanup Help
- and much more

A new position that will require additional volunteers this year will be to have volunteers to record tractor stories from members and visitors. For more information about the show, see our website at www.waterlooboys.org or contact Jesse Knaub at jak414@msn.com or 717-580-4094.

Show Schedule

Friday, July 21

9:00	Opening Ceremony
9:45	From Plow to Tractor Lecture
10:00	Dynomometer Demonstration
10:30	History of the Waterloo Boy
11:00	The Grand Green Parade
1:00	Tractor Games
1:30	The Art of Plowing
2:15	Tractor Tune Up
3:00 to 4:00	Antique Tractor Pull Weigh In
4:30	Operators' Meeting
5:00	Antique Tractor Pull
All Day	Shingle Mill Demonstration

Saturday, July 22

9:00	Opening Ceremony
9:30 - 10:00	Pedal Pull Weigh In
9:45	From Plow to Tractor Lecture
10:00 - 2:00	Silent Auction
10:00	Dynomometer Demonstration
10:00	Candy Drop
10:15	Childrens' Pedal Pull
10:00 to 11:00	Weigh In for Model H and L Series Pull
10:30	History of the Waterloo Boy
11:00	The Grand Green Parade
1:30	Backyard Chickens
1:45	Pull Operators' Meeting
2:00	Model H and L series Pull
1:30 to 2:30	Garden Tractor Pull Weigh In
2:45	Garden Tractor Pull Operators' Meeting
3:00	Raffle Drawing
3:15	Garden Tractor Pull
All Day	Shingle Mill Demonstration
All Day	Blacksmith Demonstration
All Day	Little Toot
All Day	Quilt Display



VOLUNTEER OPPORTUNITIES

There are several upcoming events that the 2017 Raffle Tractor will be traveling to. If you are interested in volunteering to help with selling tickets, contact Harriet Clark at 610-399-5334 or Steve Hill at 717-529-64228.

There will be many volunteer opportunities at the 2017 John Deere Days. Contact Jesse Knaub at jak414@msn.com or 717-580-4094.

Upcoming Meetings and Events

Date	Time	Event	Location
June 5	7:30 pm	Membership Meeting	Rough and Tumble
June 6 - 10	See R&T website	IH Spring Show and Pull	Rough and Tumble
June 12	6:00 pm*	Tech Night	Rough and Tumble
June 19	7:30 pm	Board Meeting	Rough and Tumble
June 26	6:00 pm*	Tech Night	Rough and Tumble
July 3	7:30 pm	Membership Meeting	Rough and Tumble
July 10	6:00 pm*	Tech Night	Rough and Tumble
July 17	6:00 pm	Show Setup	Rough and Tumble
July 17	7:30 pm	Board Meeting	Rough and Tumble
July 21 - 22	8:00 am	John Deere Days	Rough and Tumble
July 23	1:00 pm	Summer Picnic	Rough and Tumble
July 24	6:00 pm	Show Teardown	Rough and Tumble
August 7	7:30 pm	Membership Meeting	Rough and Tumble
August 14	6:00 pm*	Tech Night	Rough and Tumble
August 16 - 19	See R&T website	69th Annual Threshermen's Reunion	Rough and Tumble
August 21	7:30 pm	Board Meeting	Rough and Tumble
August 28	6:00 pm*	Tech Night	Rough and Tumble

***Confirm Tech Night meeting dates and times with Steve Koser at 717-598-3849**



How many locations does Deere and Company currently have and in how many countries?
(look for the answer on page 8)

In Memoriam: Lewis Frantz (1936 - 2017)

Our good friend Louie Frantz passed away on January 16, 2017 at age 80. With membership number 11 Louie joined with other John Deere fans in 1990 to form the Waterloo Boys of Southeast Pennsylvania. Louie could always be seen at all John Deere and Rough & Tumble shows in his cart with his faithful companion Rufus. Until her death he was also accompanied by his wife Joy, in whose honor we sponsor a blood collection drive at our annual show.

Each year at both the Waterloo Boy's show and the R&T Reunion Louie displayed much of his extensive collection. This included his 1927 Model D Corn Borer Special, 1934 GP, 1939 Model H, 1950 Model A, 1951 Model B, 1935 Model D, and the 1957 Model 820. He also had the three John Deere Model E engine models many John Deere plows as well as a 1925 Huber Super Four and a 1921 15-29 Frick on the R&T grounds. A skilled machinist and artist blacksmith Louie spent many hours in his shop at home restoring machines.

In addition to Waterloo Boy membership Louie served Rough & Tumble as President (2002-2004) and as a Director for many years. He is survived by his children, Linda, Darlene, Luann, Jeff their spouses, six grandchildren, two great-grandchildren, a sister and brother-in-law, and Rufus.



Mannheim Werke: Home of the 6-Series

by: Jesse Knaub

In January of this year I had the opportunity to visit Germany for a business trip. While there I had the fortune of taking a short trip south from Frankfurt to Mannheim, the home of John Deere Europe and the largest John Deere factory outside of the United States. Upon arrival, I was greeted by Michael Schlieper and given a private tour of the Mannheim Works (Mannheim Werke). Along with the factory itself, the Mannheim campus houses the John Deere Forum, which is an impressive visitors' center that showcases many of the products produced in Mannheim, as well as a small museum hosting a collection of Lanz and John Deere tractors and equipment. This was a truly exciting experience and I cannot go far enough to express my gratitude to Mr. Schlieper and the rest of staff at the John Deere Forum.

John Deere entered the European market in 1956 after acquiring Heinrich Lanz AG. The Lanz Company was founded in 1859 and innovated many early advances in agricultural technology in Europe, including a single cylinder stationary power unit (which was later produced into a tractor) known as the "Bulldog". During World War II, the factory was badly damaged and in the following years, lost ground in technology due to rebuilding efforts. John Deere was able to purchase the Lanz Company from the German government and thus established a presence in Europe. This was one of the first investments that Deere and Co. made outside of the United States and was an action that started the company on the journey to being the global powerhouse that it is today.

The factory itself is incredibly efficient and employs Six Sigma, which is a set of management techniques that are intended to improve efficiency and reduce errors and product defects. Every tractor that is built is assembled and every tractor has been spoken for. With six different transmissions (that can all be produced on the same line), various power plants, as well as a host of other accessories, there are 6 million individual combinations of 6-series that can be produced at Mannheim Werke. Technicians invest a minimum of 180 hours per year into training and are so proficient at their jobs, that most can perform multiple functions between days. Depending upon demand, there will be one or two shifts running for transmission and tractor assembly. The typical work day runs from 6:00 am until 2:00 pm with breaks scheduled throughout the day. The single shift can produce a maximum of about 150 tractors per day with the typical demand for the day being about 130 tractors. On the day that I visited, the factory needed to produce 120 tractors and 59 were complete by 10:00; meaning that a tractor was rolling off the assembly line roughly every four minutes.

Many of the parts that are produced for the assembly are produced in Mannheim. The factory houses the largest Robflex (flexible robot) machining line in the world. This collection of robotic machine can produce gears on demand with the push of a button and doesn't require any change in tooling between gear types. Automated milling for transmission housings is also performed on site with blanks coming from foundries across Europe and some coming from the foundry in Waterloo. Engines are shipped in from Orleans, France and cabs are produced nearby in Bruchsal, Germany. These parts arrive just in time with cabs, for instance, not spending more than four hours in Mannheim prior to being installed on a tractor.

Assembly is an amazing process to watch. The assembly line is the shape of a large letter "U". The process starts with a large steel pallet being loaded on a track. The pallets do not stop as they move along the first side of the "U" with the frame, engine, and transmission being installed. The only time the tractor stops along assembly is at the bottom of the "U" where the cab is installed. This is the most delicate part of the assembly process because once the cab is set on the tractor it cannot be picked up again because the overhead crane has left to retrieve the next cab. If a mistake is made, the tractor must continue down the assembly line and be rejected during the quality control tests. Only then can it be sent back for rework. The cab installers are considered the Formula One team of the factory because they have no more than six minutes to install each cab before the next tractor is ready to be moved into the area. After the cab is installed, the tractor continues down the remaining side of the "U" to have the finishing touches put on and be tested. Each tractor is filled with fluids, run and tested. The fluids are then removed, filtered, and replaced so that they are in the best possible condition. When the tractors reach the end of the line, a single person drives each one off line, tests the parking break, then parks them for a final quality check and shipping. Local deliveries are made by truck but tractors that need to go any distance are loaded onto barges and floated down the Rhine River for shipment.

Testing is very important at Mannheim Werke. During R&D many tests are performed to ensure that each tractor meets the exacting quality standards required by John Deere. Tractors are tested in every way imaginable. They are run in freezers, and in saunas. They are run on obstacle courses similar to cars, and are destroyed to test durability. After assembly, at least 10% of finished units undergo stringent testing where the tractor is hooked up to computers and dyno tested under various conditions. The testing computers send the data to John Deere factories all over the world so that engineers can see results in real time in order to make decisions on potential upgrades that

might be needed. We all know that engineering has seen major advances since the days of the Waterloo Boy, but now at Mannheim Werke, the 440 engineers can virtually build, operate, and test tractors in the “cave”, a 3D imaging room that reduces the need for physical prototyping.

John Deere Mannheim Werke is helping plan for the future of labor in Germany. The company has been considered one of the best employers in the country since the days of Heinrich Lanz and today is listed as the #20 employer in Germany out of 1000 evaluated. The Mannheim Werke workforce is loyal with the average age of the factory being 45 to 48 years of age. Turnover is an astounding 2%. That being said, John Deere is working to educate the next generation of mechanics with an onsite training center. At this training center, students who do not wish to pursue a university degree can come to work at the training center (similar to a Vocational Technical school in the United States). During this time, the students are learning how to use the state of the art equipment in their chosen field as well as being paid for their time at the training center. At the end of the program, there is very stiff competition for jobs at John Deere since there are only a handful of positions available; however, the students can proceed to work and many other companies using the skills that they learned in Mannheim.

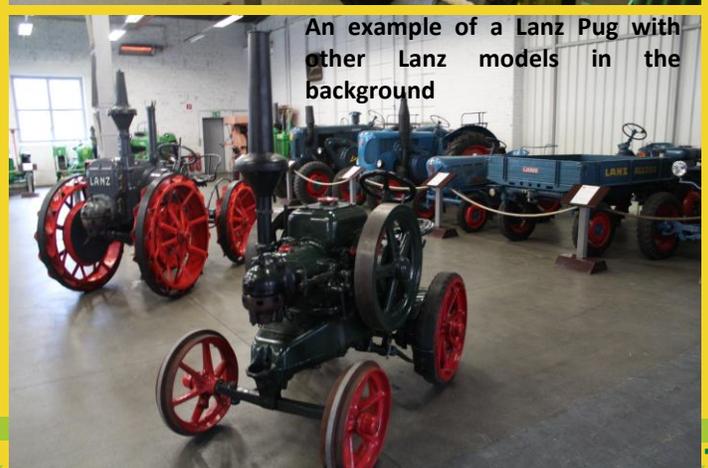
After touring the Mannheim Werke, I was given some time to look through the small onsite museum showcasing the history of Lanz as well as the transition to John Deere. The museum housed a number of single cylinder Lanz Bulldogs as well as a “Pug”. These tractors did not have a reverse gear; instead, the engine was slowed to nearly a stop and the rotation of the entire engine was reversed to make the tractor go backward. Several other tractors that had been imported to Germany from the United States were also on display and the chronological line ended with tractors that had been produced at the factor since its acquisition by John Deere. The tour ended where it began in the John Deere Forum. This showroom has some of the current 6-series tractors that have been produced in Mannheim as well as some historical artifacts in addition to what is displayed in the museum, including the Waterloo Boy shown on the cover of this newsletter. This was a truly incredible tour and once again, I would like to thank Michael Schlieper and the rest of the staff at the John Deere Forum for their hospitality and knowledge. A complete album of my pictures can be found on the Waterloo Boys Facebook page as well as on our website at www.waterlooboys.com.



Inside the John Deere Forum



A Lanz Bulldog built shortly after John Deere purchased the company. To the left, a tractor bearing the John Deere-Lanz name



An example of a Lanz Pug with other Lanz models in the background

Tractor Trivia Answer:

Over 102 locations in 30 countries and 49 locations in the United States alone



NEW: Waterloo Boys Donation Program

The IRS has granted the Waterloo Boys a status of 501c3, or non-profit or a not for profit organization. Because we have this IRS status we may accept donations of equipment or items that have a monetary value, and provide the donor a receipt which is acceptable to the IRS as a tax deductible donation.

Donations accepted could range from tractors, implements, toys, literature, tools or any other item deemed collectable by the Club. Donations may be considered regardless of manufacture.

There will be two general types of donations, restricted and non-restricted. Restricted donations may require the donated item remain as property of the Club, or some other restriction determined by the donor. Non-restricted donations may be used or disposed of at the will of the Club. An effort should be made to encourage non-restricted donations.

The Waterloo Boys reserves the right to refuse any donation, for any reason, which may or may not be disclosed to the potential donor.

A donation receipt will be provided for all donated items. The donor will determine the value for their tax purposes.

If the item donated cannot be delivered to the Waterloo Boys, a Club member will retrieve the item and be paid for costs incurred for their services. Time will not be reimbursed.

A document for donations will be needed that both the donor and an officer of the club shall sign; each party will receive a copy of this document. The document will identify the item(s) with serial number if appropriate, general condition of the item, the donor's wishes for the item i.e. restricted or non-restricted, and date. One copy of this document will be retained by the Club.

All donations shall be approved by the Board of Directors, unless this Board delegates one or more Board members to manage the donation process.

Contact an officer or member of the board of directors for more information.

Pull Schedule Reminder



There is a new pull schedule for John Deere Days 2017.
For the full show schedule, turn to Page 3

**Antique Tractor Pull: Friday at
5:00 pm**

Pedal Pull: Saturday at 10:15 am

Pull For Model H and L Series: Saturday at 2:00 pm

Garden Tractor Pull: Saturday at 3:15 pm



Meeting Minutes: February 2017

The February Meeting of the Waterloo Boys was held on Feb 6th 2017 on the grounds of R&T. The meeting was called to order by Pres. Harvey Bashore. Harvey asked if any members needed to be remembered in our thoughts and prayers. Ed Paschall is in Chester County Hospital. He has had either a stroke or heart attack. He fell and hit his head and broke his implant for hearing. Bob Solway will have surgery in March on his back. Barb Hill is recovering from her shoulder surgery, Ralph Curtiss is also recovering from surgery on his neck, Jim Montaque is having surgery tomorrow. And also to the Frantz family following the passing of Louie. Steve Koser read scripture and let the meeting in prayer.

The secretary's report was given and approved with a motion by Charlie W. and seconded by Dean Gross.
The treasurer's report was read and also approved with a motion by Steve Hill and seconded by George Harris.
Sunshine Comm: A card and \$100 donation will be sent to The York Cancer Center Patient Help Fund in Louie's name.

The newsletter is out . The board met early tonight to stuff envelopes with raffle tickets, the newsletter and the notice of the spring banquet.

Membership: Jim reported membership of 292 of that life 153. New members this past month; James S Martin, John Laskowski, Charles Stoltzfus and Doug Williams.

Building Comm; Dave is working on cleaning the shop.

Tech night: Feb 13 working on the 3010. Tech nights are 2nd and 4th Mondays. Please check with Steve Koser if in doubt .

Pedal Tractor pulls; 111 pulls at the farm show.

Trailers: Haulmark trailer needs a new battery. Ted Casey will take care of this.

Hit & Miss: The scout who was to work on a hit & miss engine has decided to work on something else for his Eagle Scout badge.

C Ivan will be leaving Fla. For the next leg of his trip on Feb 19th.

Meeting adjourned.

Minutes continue on pages 10 and 11

Spring Banquet

On March 18 the Waterloo Boys and Girls gathered for a evening of good food and fellowship at Fairmont Homes. The kitchen staff outdid themselves again and provided a wonderful dinner. After dinner, a very long distance phone call was made to C. Ivan Stoltzfus who was somewhere in Texas with Johnabilt. The evening wrapped up with an auction of various items donated by members that generated \$912 for the club.



Minutes: March 2017

The March Meeting of the Waterloo Boys was held on the grounds of R & T on March 6th 2017. Pres. Harvey Bashore called the meeting to order. He asked for members who needed to be remembered. Bob Fulton was in the hospital. He is now home recovering. Ed Paschall is also home. Jim Montague hurt is back after his surgery. Galen Benner had a stroke. Darryl Zimmerman just finished another radiation treatment. Harriet Clark is having shoulder surgery Thursday and Joe Neuman is having a knee replaced on Friday. Chaplain Steve Koser read a passage of scripture and led the meeting in prayer this was followed by the salute to the flag.

The club received thank you letters from Jim Montague and The York Cancer Center Patient Help Fund and Sandra Paschall Bruce.

Secretary's report was read and approved with a motion from Ralph Crossan seconded by Charlie W.

Treasurer's report was read and approved with a motion from Steve Hill and seconded by Dean Gross.

Corres' no report

Sunshine Comm; no report

Newsletter; next one will go out in the middle of May.

Raffle tractor; nothing in March

Future raffle tractor; still working on it

Annual show; next meeting March 16th sponsorship letters will go out next month.

Membership; We have 289 members. A new member Martin C Long of Ephrata was voted on and accepted.

Pedal Tractor: Mark is taking the trailer home to put the new stencils on it.

Trip across America; C Ivan is in Texas.

Artifacts; David Burk needs volunteers to greet people in to the artifacts room during our show. He is working on a new display about wheat.

Club B; the petcocks will be worked on at the next tech night.

Steve Koser has the dip sticks that were ordered. Those who ordered them the cost is \$40.88 payable to Steve.

The Banquet is March 18th. Auction items are needed. The flowers will be supplied by Spike and Jean Thompson.

Plow day will be April 8th with a rain date of the 15th or 29th A pig will be roasted and soft drinks will be furnished also. Call Morgan Foose to confirm if it is a go.

Steve Hill is donating a John Deere Van Brunt grain drill to the club. It is in the museum now.

Meeting adjourned



Classifieds

Classified listings are free for all members. Please send classified listings to Katie Knaub at: 254 Old Leacock Rd., Gordonville, PA 17529 or email to jak414@msn.com.

For Sale

1946 Model GM: Total restoration inside and out.
\$9,500

1946 Model D: Total restoration inside and out.
\$12,500

Receipts are available documenting all restoration work that was done

Contact: Bob Vahey

Home: 610-274-8326

Cell: 484-356-5222

For Sale

John Deere X8 Snowmobile

Asking \$150 or best offer

Contact: David Halladay
717-529-2157

Meeting Minutes: April 2017

The April meeting of the Waterloo Boys was held on the grounds of R&T on April 3 2017. President Harvey Bashore called the meeting to order. He asked of any members that needed to be remembered in our thoughts and prayers. Anthony Zimmerman is suffering with migraine headaches. Chaplain Steve Koser read a passage from the Bible and led the members in prayer. This was followed by the salute to the flag.

The secretary's report was read and approved with a motion by Charlie W and seconded by Irvin M.

The treasurer's report was then read and approved by a motion by Steve H. and seconded by Charlie W. The proceeds from the banquet were \$237 with the auction netting \$912. The raffle tractor is over cost by \$5600.

Corres. Comm: George Harris sent a Thank You letter to Cruvin Horning for doing the auctioneering at the banquet.

Newsletter: will be ready to send to the printer by April 15

Membership: The new membership cards are green and will have the date stamped on the back when the membership will need to be renewed.

Annual show schedule will be printed in the next week and the sponsorship letters have gone out.

Tech night: Dale Moyer has a B he would like the club to work on. He cannot get it started, needs carb work, and he would like to have it painted also. And he has offered a nice donation to the club for our time. Jesse Knaub has offered to pick up the tractor and deliver it to the shop.

C Ivan Stoltzfus is crossing the Rockies now

Plow Days: Will be April 8th. If there is any chance they will not plow please call Morgan Foose at 717-786-3423

Charlie Wickhart asked if anyone would be interested in taking a bus trip to the Gathering of the Green next year. Please contact Charlie if you would be interested.

The meeting was adjourned with a motion by Charlie W and seconded by Steve H.



Your Attention Please: Raffle Tickets were mailed out with the last issue of the newsletter for purchase by members. Ticket stubs with numbers 12517 through 12528 were returned with payment. These stubs do not contain the contact information for the purchaser and there was no return address on the envelope. If you have these tickets, please send them to Ralph Curtiss so that you can be included in the drawing in July.

Membership Reminder

Enclosed within this newsletter is a form for membership renewal. The date that your membership will expire is printed on your address label along with your member number. Please direct questions to Jim Montague. Jim's contact information can be found on the enclosed form.



VISIT US ON THE WEB / WWW.WATERLOOBOYS.ORG



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c/o Katie Knaub
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