

# The Line Shaft

*The Official Newsletter of the*

## NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

May 2013

### Spring Plow Day

See page 2



President: Blace Flatt  
(973) 663-1090

Vice Pres.: Andrew Mackey  
(973) 627-2392

Treasurer: AnneMarie Adams  
(973) 946-1726

Secretary: Jeff Brooks  
(973) 570-2749

Our Web Address: [njaemc.org](http://njaemc.org)

*Founded on October 15th, 1979 by: Arthur Goble, Fred W. Westbrook, John Snook, Roy Bischoff & Lewis Quince*

Our last months meeting was held at the shed and had 36 members in attendance. Anne Marie read the financial report and it was approved. Discussion topics of the evening were *Coming Events* and in particular the new location for plow day...see page two.

Also, peanut pricing was a issue. A vote confirmed the amended price for this year's Fair will be \$2.00 per bag.

Bob Triebel won the evenings 50/50 (in the amount of \$38.00). He generously donated the funds back to the club. What a guy—thank you Bob!

## COMING EVENTS

### Military Transport Association Show

April 27th and 28th...it would appreciated if you could bring a tractor, truck or engine. Call Jeff Brooks if you need any information. 973-570-2749

### Branchville Memorial Day Parade

See Anne Marie or Kevin Adams for information. 973-946-1726

### Denville 100 Year Anniversary Parade

The June 9th Parade will start at train station and end at *Gardner Field*. For information or directions call Howard Squires 973-886-1872.

### Blairstown Tractor Supply Show

June 8th from 9:00AM—3:00PM...Call Blace Flatt for additional information at 973-663-1090.

### REMINDER: 2013 DUES ARE DUE!

*Annual dues are \$25.00 and payable at the monthly meeting or send to:*

**NJAE&MC-Anne Marie Adams...7 Gunn Rd., Branchville, NJ 07826**

*Our next meeting will be 7PM at the shed on May 9th 2013*

# Spring Plow Day & Tractor Show

**May 4th 2013 (Saturday)...rain date, May 11th**

**New Location!**

**Green Valley Farms**  
**997 Route 23N Wantage, NJ 07461**

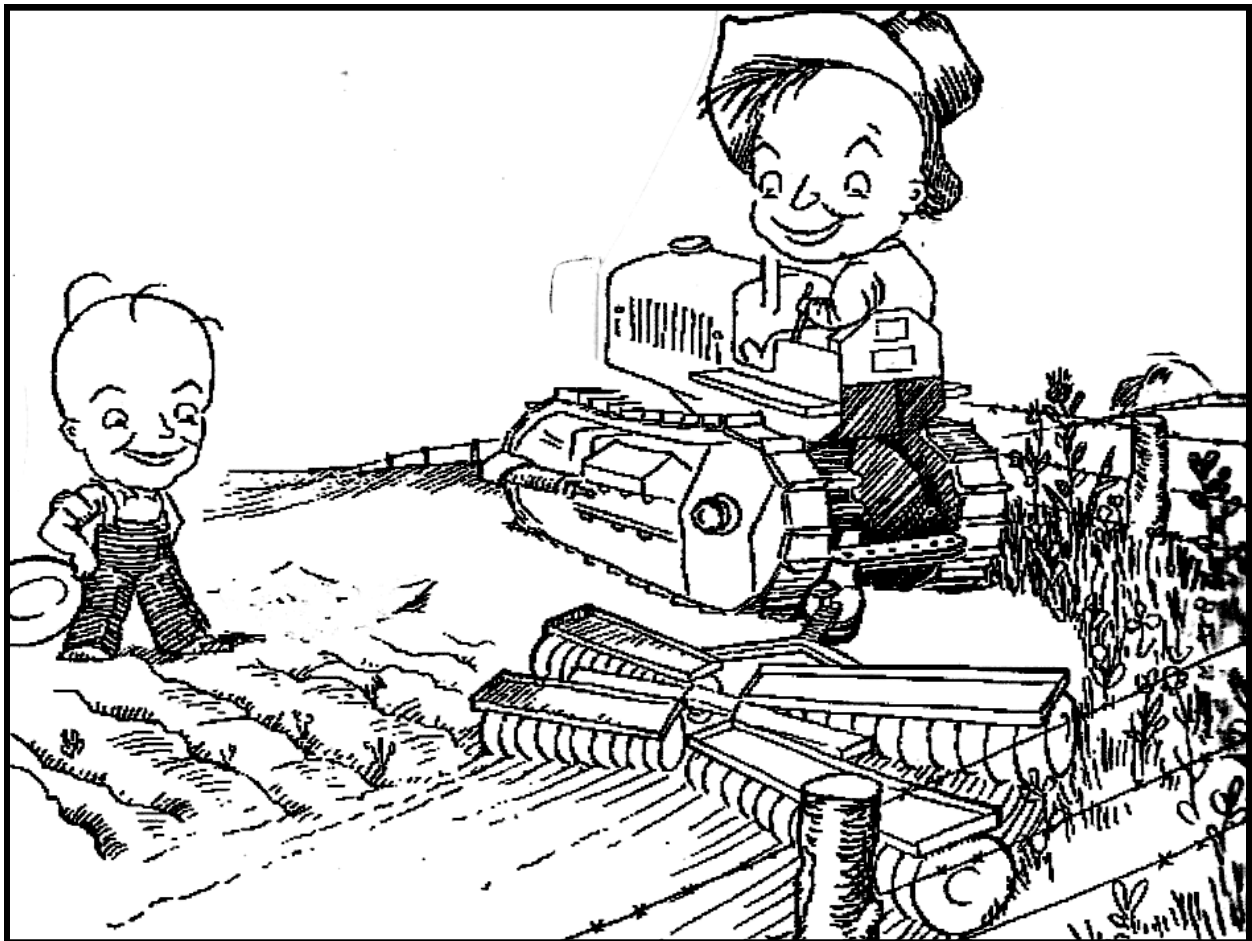
**From the light in Sussex NJ, take Route 23 North 3 miles...farm is on the right: white house, white barn!**

**Barbecue style lunch will be provided by our generous host!**

**Plow Participants arrive at 9:00 AM for drivers meeting!**

**Bring you own coffee and donuts...breakfast will not be provided...**

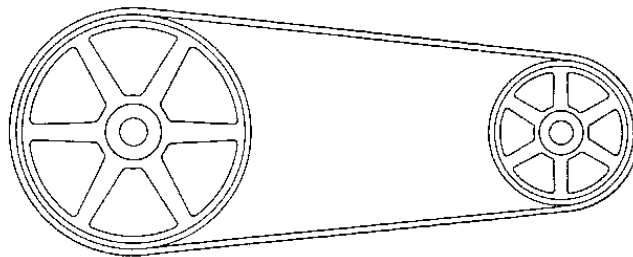
*All tractors must have fire extinguishers to participate...*



## Speeds or dimensions of Pulleys, sheaves, sprockets and Gears!



The fact that the operating circumference of a pulley, sheave, sprocket or gear is always 3.1416 (Pi) or  $3 \frac{1}{7}$  times the "pitch" diameter makes it easy to figure speeds or dimensions by considering only the pitch diameter of both driver and driven pulleys and/or the RPM's of each. The pitch diameter of a flat belt pulley is its outside diameter and a sheave uses its root diameter, while the pitch diameter of a V-belt pulley, sprocket or gear is a measurement of its pitch circle or...the point that the V-belt, chain bushing or tooth actually touches and transmits power. This point is generally determined as an engineering dimension and can change with component wear. For these drives, a simple "working" pitch diameter can be determined by using an imaginary line half way between the root diameter and the outer diameter of the V-pulley, sprocket or gear as your pitch diameter measurement. An easy measurement practice on a V-drive pulley, sprocket or a gear would be to place one leg of a caliper on the outside diameter and the other on the root of the V, tooth pocket or gear.



In the chart below (from the **AMERICAN MACHINISTS' HANDBOOK...July 1935**) we will use the word pulley, but the same rules can be used for sheaves, sprockets, or gearing...

Having:	To Find:	Rule:
Pitch diameter of the driving pulley. Pitch diameter of the driven pulley. Speed of the driving pulley in RPM's.	Speed of the driven pulley in RPM's.	Multiply the diameter of the driving pulley by its speed and divide by the diameter of the driven pulley.
Pitch diameter of the driving pulley. Speed of the driving pulley in RPM's. Speed of the driven pulley in RPM's.	Pitch diameter of the driven pulley.	Multiply the diameter of the driving pulley by its speed and divide by the speed of the driven pulley.
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Pitch diameter of the driven pulley. Speed of the driven pulley in RPM's Speed of the driving pulley in RPM's	Pitch diameter of the driving pulley.	Multiply the diameter of the driven pulley by its speed and divide by the speed of the driving pulley.

The above rules apply equally well to a train of belt, sheave, sprocket or gear drives...if all the driving and all the driven diameters and speeds are grouped together.

# MARKETPLACE

**Wanted:** 14.9 x24 used tires...Contact Ken Reuter 973-670-1646

**For Sale:** International Cub Cadet 102. \$400.00...Contact Paul 201-835-5924

**Wanted:** Backhoes, loaders, compact tractors, mini-exc., skid steer loaders and farm tractors, any condition...Contact Robert Norman 845-858-8242

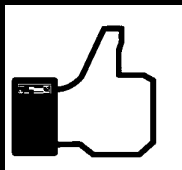
**For Sale:** Steam Bent Ash hardwood walking plow handles...Contact Bruce Mitchell 973-702-1012

**For Sale:** Antique Ford and John Deere tractors...Contact Don Donofrio 973-627-3706

**For Sale:** 1976 Ford Super Cab Pickup, Trailer Special, 460ci, auto trans Asking \$3500.00 or partial trade for antique tractor Contact Jim Dunlop 973-219-9694

**For Sale:** Allis Chalmers garden tractor, 912 hydro/914 shuttle, Simplicity 3416 Shuttle, many extra parts and attachments which go along with tractors. Make me an offer I can't refuse...Mark Giovanetti 973-986-5051

Check out our FACEBOOK PAGE!



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