

October 1, 2008

Arizona Early Day Gas Engine & Tractor Association



Iron Record

Buckeye Heritage Park Show Plans are in the Final Stages



**1917 80HP Fairbanks-Morse
Diesel Engine**

The Buckeye Heritage Park Show to be open to the public on October 25th and open to members on October 24, 25, & 26th and the plans are in the final stages. All of the team leads are working hard to get everything finalized so that AEDGE&TA can put on a stellar show!

To the left you can get a preview of what our show button is going to look like. This is a picture of the Fairbanks-Morse Diesel Engine that our organization has been working so hard to get back into working order.

Dial 623-435-3955

623-435-3955 is Arizona Early Day Gas Engine and Tractor Associations main information hot line. If you are in doubt of time, location or a particular event just dial this number and listen to the recording! This is the life line of the Club.

President's Corner



"Jerry on his cousins 800 HP JD 6030"

I hope you all have had a Great summer. Debbie and I have had a few long weekends in northern AZ this summer. We spent labor day weekend in Michigan.

My sister Dorothy retired after a long career with Northwest Airlines. She is the first of my siblings to retire, so we had to have a party. While there we visited my cousin who has farmed all his life and I got to drive one of his toys, (see picture). It's a John Deere 6030 pulling tractor, putting out 800 HP and it pulls in the 12,000 lb open class. We took it for a ride and in 8th gear it will spin the 18.4 tires from a standing start on a gravel road. What a Rush!

In other news, we have brought our fall show back — only this year it will be in Buckeye. Show Chair, Rex Condie and the rest of his committee have spent a great deal of their time this summer

putting all of this together. There is much more information elsewhere in this issue.

We have lots of other activities planned as we begin this busy show season.

If you can make it out to any of our events, look me up and say Hi. I welcome new ideas and I value your input.

See you soon,
Jerry Geiger

In 1877, the founder of the settlement that was to become the Town of Buckeye led a party of six men, three women and ten children, from Creston, Iowa, to Buckeye, Arizona. The leader of the party was Thomas Newt Clanton whose purpose for coming west was to foster good health. He lived to be 82 years old.

Silent Auction will be on Saturday

Bob Kilbarger and his crew are gearing up for the Silent Auction that is to be held on Saturday. Remember to bring all of your farm related items. They are looking for engines, tractors, parts, farming stuff, old sewing machines, milk cans, butter churners, etc. Anything that has to do with "Old Iron". Come and check it out!





**Arizona Early Days Gas Engine & Tractor Association®
PRESENTS THREE MAJOR SHOWS**

1ST ANNUAL BUCKEYE ANTIQUE TRACTOR & ENGINE SHOW

LOCATED AT

Buckeye, Arizona

(SW CORNER OF BASELINE & MILLER)

Saturday October 25th, 2008 9 am to 4 pm

Contact Rex Condie, Show Chair for information 602-689-8620

ANTIQUÉ ENGINES , TRACTORS, FARM IMPLEMENTS

Displays & Demonstrations — Free

19TH ANNUAL WINTER ANTIQUE TRACTOR & ENGINE SHOW

LOCATED AT

Sahuaro Ranch Park Historic Area—Glendale

9802 North 59th Avenue (just north of Glendale Community College)

Saturday & Sunday, February 14 & 15, 2009

9 am to 4 pm each day

Contact Debbie Geiger, Show Chair for information 602-723-8651

ANTIQUÉ ENGINES, TRACTORS, FARM IMPLEMENTS

Displays & Demonstrations— ADULTS: \$5:00 KIDS (12 AND UNDER): FREE

TRACTOR PULLS, SILENT AUCTION, GARDEN TRACTOR PULLS

16th ANNUAL SPRING ANTIQUE TRACTOR & ENGINE SHOW

LOCATED AT

Rodeo Park—Apache Junction

Lost Dutchman Boulevard between Idaho & Tomahawk Roads

Saturday & Sunday, March 14 & 15, 2009

9 am to 4 pm each day

Contact Larry Stafford, Show Chair for information 480-895-7316

ANTIQUÉ ENGINES, TRACTORS, FARM IMPLEMENTS

Displays & Demonstrations — ADULTS: \$5:00 KIDS (12 AND UNDER): FREE

Engine Registration for the Buckeye Show

Show Number Assigned: _____

Member Name _____ From _____

Engine Information:

Year _____ Make _____ Model _____

Horsepower: _____

Brief Description for announcers: _____

Annual Fall Business Meeting will be held at the Buckeye Heritage Park Show

Please mark your calendar for October 25th and attend the Annual Fall Business Meeting. This year the Board is doing something a little different to try to get more participation. The Annual Fall Business Meeting is going to be held after the Stew Pot Dinner on Saturday evening.

So please come out and hear what our Board has planned for the upcoming season. It should be a good year.

Jerry Geiger, as our current President will be running the Business Meeting. Bill Kuznia, as our current Treasurer will be presenting the upcoming Budget for the Club.

Tractor Registration for the Buckeye Show

Show Number Assigned: _____

Member Name _____ From _____

Tractor Information:

Year _____ Make _____ Model _____

Wheels: _____

Brief Description for announcers: _____

Stew Pot Dinner will be at Buckeye Too!

Remember to get your vegetables to Carol early on Saturday so that she can begin to prepare the Stew. Come dinner time — bring a side dish or desert to share and enjoy our Stew Pot Dinner.

This is a time to swap stories about what you have been doing for the past summer and what you plan on doing this upcoming Show Season.

Remember this is a very popular Event. You do not want to miss. Keep a look out for that big Dutch oven and what might be cooking in it.

RV Registration for the Buckeye Show

Member Name _____ From _____

Contact Phone Number: _____

RV Information:

Year _____ Make _____ Model _____

Length of RV: _____

When will you be arriving: _____

A Few Bragging rights that belong to Arizona!

According to Marshal Trimble Arizona is truly a land of anomalies. Arizona has more sunshine than Florida and frequently has both the hottest and coldest temperatures of the same day.

Mt. Lemmon, near Tucson, is the nation's southernmost ski resort.

The state's average rainfall ranges from 3 inches in the desert near Yuma to 30 inches in the high country.

We have dehydrated rivers; trees made of stone; cactus that blooms only at night; a bird that can run faster than it can fly; the only poisonous species of lizard in the nation; a river named Colorado that spends most of its time in Arizona; a retirement community named Youngtown; a Maricopa county and the town of Maricopa in Pinal County. Fort Apache is in Navajo County and the city of Navajo is in Apache County.

Arizona, world-famous for its wide-open spaces is, in reality, an urban state. Some 80% live in towns or cities, the vast majority of those in Tucson or the greater-Phoenix area. Still, because of the vast size, there are only about 25 people per square mile in the state.

Less than 18% of the land in Arizona is privately owned. Nearly 27% is Indian land; 12.18% is state owned and 43.52% is federally owned.

Buckeye Volunteers Needed for the Following

Shane Kuznia is our Volunteer Team Lead responsible for getting you wonderful members to Volunteer to assist with our Buckeye Show. Give Shane a call **(623) 935-3039** and tell him where you would like to volunteer. It is a lot of fun and you get to meet a lot of special people. Everyone has a special story to share and the enthusiasm for "Old Iron" is contagious!

Following is a partial list of the various positions that we need volunteers for.

AEDGE&TA STORE = MEMBERS ARE RESPONSIBLE FOR SETTING UP DISPLAY, TRACKING INVENTORY AND THE SALE OF CLUB ITEMS

ANNOUNCING TEAM = MEMBERS ARE RESPONSIBLE FOR ANNOUNCING THE TRACTOR PULL, TRACTOR PARADE, ENGINE DESCRIPTIONS; AND GENERAL INFORMATION.

COMPUTER TEAM = MEMBERS ARE RESPONSIBLE FOR ENTERING REGISTRATION INFORMATION FOR THE TRACTOR PULL; ENGINE DESCRIPTIONS; AND ALL ANNOUNCING INFORMATION FOR THE ANNOUNCERS.

ENGINE DISPLAY TEAM = MEMBERS ARE RESPONSIBLE FOR SETTING UP ENGINE DISPLAY AREA.

GARDEN TRACTOR PULL TEAM = MEMBERS ARE RESPONSIBLE FOR THE SAFETY OF THE GARDEN TRACTOR PULL. THERE ARE FLAG MEN; HOOKERS AND PULL BACK TRACTORS.

GROUND SET UP TEAM = MEMBERS ARE RESPONSIBLE FOR MARKING OFF THE GROUNDS AND SETTING UP WHERE EVERYTHING GOES. (Usually starts on Wednesday)

MEMBERSHIP REGISTRATION & INFORMATION BOOTH = MEMBERS ARE RESPONSIBLE FOR REGISTERING NEW MEMBERS, GATHERING INFORMATION FROM MEMBERS AND GIVING OUT INFORMATION ABOUT THE SHOW TO THE PUBLIC.

PHOTO TEAM = MEMBERS ARE RESPONSIBLE FOR TAKING PICTURES OF THE SHOW, MEMBERS WORKING, ENGINE DISPLAYS, TRACTOR DISPLAY, ALL ASPECTS OF THE SHOW.

RAFFLE TEAM = MEMBERS ARE RESPONSIBLE FOR GETTING DONATIONS FOR ITEMS TO BE RAFFLED, SETTING UP THE RAFFLE BOOTH AND SELLING RAFFLE TICKETS.

ROTATION TEAM = MEMBERS ARE RESPONSIBLE FOR FILLING IN AREAS WHERE STAFF HAS NOT SHOWN UP OR WHERE MORE ASSISTANCE IS REQUIRED.

SILENT AUCTION = MEMBERS ARE RESPONSIBLE FOR SETTING UP THE SILENT AUCTION AREA, MONITORING THE BID PROCESS; TAKING OF FUNDS AND DISTRIBUTION OF ITEMS TO WINNERS.

SODA & WATER SALES = MEMBERS ARE RESPONSIBLE FOR THE SALE OF SODA AND WATER.

STEW POT TEAM = MEMBERS ARE RESPONSIBLE FOR THE STEW POT DINNER TO BE HELD ON SATURDAY EVENING, CHOPPING OF VEGETABLES, SETTING UP POTLUCK ITEMS AND SERVING DINNER.

TEAR DOWN TEAM (Sunday & Monday) = CLEAN UP OF BUCKEYE HERITAGE PARK. ALL CLUB ITEMS MUST BE REMOVED FROM PARK. AND RETURNED TO WHERE THERE ARE STORED.

More Buckeye Volunteers Needed for the Following

TRACK SET UP TEAM = MEMBERS ARE RESPONSIBLE FOR GETTING THE PULL TRACK READY; BLEACHERS SET UP, TRACK ROPED OFF, AND TRACK PREPARED.

TRACTOR SLED TEAM = MEMBERS ARE RESPONSIBLE FOR THE SAFETY OF THE TRACTOR PULL, THERE ARE FLAG MEN; HOOKERS; SLED OPERATORS; AND PULL BACK TRACTORS.

TRACTOR WEIGHT SCALES = MEMBERS ARE RESPONSIBLE FOR WEIGHING TRACTORS AND FILLING OUT THE WEIGHT SLIPS FOR SAID TRACTORS.

Buckeye Volunteer Team Leads

Show Chair; Photo Op; Thrashing Machine; Grounds Tear Down = Rex Condie

AEDGE&TA Store = Rose Kuznia

A Team Announcing = Lowell Schauer

Computers; Pancake Breakfast = Debbie Geiger

Engine Display; Big Engine= Gary Gruel

Garden Tractor Pull = Bill Frew

Grounds Set Up = Sam Parastino

RV Camp = Bill Biggerstaff

Scale = John Harger

Silent Auction= Bob Kilbarger

Sled= Ray Gatz

Soda Wagon Sales = John Klingshei

Stew Pot Dinner = Carol Klingshei

Tractor Boss = David DeLong

Track= Bryan Geiger

Treasurer = Bill Kuznia

Volunteers = Shane Kuznia

Registration; Show Photo; Pull Configuration = Leslie McConnell

Jackpot Pull; Powder Puff Pull; Parade = Sam McConnell

If you have any questions these are the ones that have the information about their particular Teams.

Friday Night is the Jack Pot Pull

According to Sam McConnell there has been a lot of interest in the Jack Pot Pull that is to be held Friday night under the lights. Members are very excited about the funds going back to a scholarship fund. Entry fee is \$10.00. After the Jack Pot Pull there will be an open pull with a hook fee of \$2.00. Funds to go to the scholarship fund also. There will be no percentages given during the open pull.

Please continue to contact Sam McConnell at 623-878-7895. If no one is home please leave a message and Sam will get back to you.

Registration will open at 4:00 p.m. Friday and close at 5:30 p.m.. Pull to start @ 6:00 pm. No Preregistration.

Jack Pot Pull Rules

Restoring the past and driving that history down the track is what tractor pulling is about. The tractor pull will be successful as long as we place fellowship, friendship, and enjoyment above competition. These rules are intended to provide tractor pulls that are safe, fair and enjoyable. That being said the Jack Pot Pull is for Charity — All entry fee money will be donated to AEDGE&TA's Scholarship Fund. There will be NO prize money to participants. You are pulling for Bragging Rights only.

TRACTORS

A tractor must be a model year 1960 or earlier to participate in the Jack Pot tractor pull. No modified tractors will be allowed to participate. Engine bore, stroke and r.p.m. must meet original or factory specifications. the .

INSPECTION – Tractors will be inspected during check-in and registration by the Pull Committee or the Track Judges. Any tractor judged to be unsafe or in violation of the rules will not be allowed to pull unless the problems are corrected.

DRAW BAR – The draw bar must be original or match factory specifications. The draw bar must accept a three-quarters (3/4") hitch pin and may be adjusted to not more that twenty (20") inches above the ground. The draw bar height will be checked by the hook-up man. The draw bar height must remain stationary.

WEIGHTS – No weights except wheel weights and frame mounted weights that were factory original at the time that tractor was built may be used. These weights are to be mounted the same way the manufacturer intended the desired weight. **NO TRACTOR SHALL EXCEED 12,000 LBS.**

STEEL WHEELS – Wheel rims and lugs must be to factory specifications. One set of factory specification extension rims will be allowed.

TIRES & RIMS – Steel wheels cut down and converted to rubber shall have wheel width and tire size, one (1) size larger or one (1) size smaller than factory specifications. Dual wheels and radial tires are not allowed.

CLASSES – Tractor classes will be determined by weight in the following classes:

Weight Range

A	0 to 2,499 lbs.
B	2,500 to 3,499
C	3,500 to 4,499
D	5,500 to 6,499
F	6,500 to 7,499
G	7,500 to 12,000 lbs max. Weight

Jack Pot Pull Rulls Continued

STEEL — Steel will follow the same Weight Ranges as previously.

DRIVERS

MEMBERSHIP & AGE – Participants must be current club members. Drivers 17 and under must have parental consent and supervision and must meet the driver standards and pass a certification test.

REGISTRATION & WEIGH-IN -- Participants must be registered and weighed in at least thirty (30) minutes prior to the pull. Weight be equal to (tractor + driver + all weights) must be provided by the driver.

DRIVERS MEETING – The track judges will conduct a safety and procedures meeting just before the pull starts. **All drivers must attend.**

SAFE OPERATION – Tractors must be operated in a safe manner at all times. **SPEED MUST NOT EXCEED FOUR (4) MILES PER HOUR ON OR OFF THE TRACK**

PULL PROCEDURES

JUDGES – The pull will be conducted by three (3) judges appointed by the Show Committee (sled operator, hook-up man and flag man). The judges' decision on rules or safety violations will prevail for the duration of the event.

APPEAL – Drivers removed from the pull for rules or safety violations may appeal the decision of judges at the next scheduled board meeting.

PULL ORDER – The order of the pull will be determined by the order of registration. You will pull in the order discussed in the drivers meeting. If you miss your place, you will pull last.

SCORING – Pulls will be scored on a percentage basis. The calculation for percentage will be the sled weight divided by the tractor weight. Scores will be posted as soon as possible after the pull. Drivers are asked not to bother the Score Keeper or Track Judge with unnecessary questions.

PULLING COMPETITION –

Drivers must start the pull with a tight chain and at the starting signal from the Flagman.

Tractors may not change gears once the pull has started. This includes the use of T/A's and any other kind of shuttle shifting.

Speed must be controlled by a hand throttle only. Strings, wires or foot feeds will not be allowed.

Drivers must remain on the seat and maintain full control of the tractor during the pull.

Tractors must stay within the track boundaries.

If a tractor stops or stalls in the first ten (10) feet, the pull may be restarted from that point and weight, one time only.

The front of the tractor may not raise over twelve (12) inches during the pull. A magnet and chain attached to the tractor near the front axle will determine the rise distance.

All tractors will be flagged if any parts fall off during the pull.

Tractors must **STOP** at the red flag signal from the Flagman.

All pulls will be from the pan with the Sled in 4th gear and starting from lowest weight (weight box in last holes)

Any tractor pulling the sled to its max weight will be given the honor of a FULL PULL but will not receive a percentage. Thus will not be eligible for Show Bragging Rights.

Walking Tours for the Engines

We are going to try something different at this show. The Engines, which are our featured item, will be at the entrance to the show under a large tent. We are going to set it up so that we can have at least two different tours through the engines.

Because of this — it is really important that you return your engine registration forms in as soon as possible. We need to receive them by October 20th. This is the last time that we will be checking the mail before the show. Please let us know a little bit about your special engine that you want to share.

This is the time for the engines to shine. All of you that have those special engines — polish them up and bring them out to the show so that we can demonstrate all of the care and history that the engines have!

1917 Fairbanks-Morse Diesel Engine will be on display

AEDGE&TA's 1917 Fairbanks-Morse Diesel Engine will be on display at the October Show in Buckeye. This is still a work in progress and various Club members have put many, many hours in the restoration.

Those that are volunteering their time to demonstrate the operation of this very special engine need a round of applause.

AEDGE&TA's Thrashing Machine will shine at the Buckeye Show too!

AEDGE&TA will be displaying the operation of the Thrashing Machine as well.

They will be demonstrating just what it takes to get the Thrashing Machine up and running. It is just not inserting the key and watching it run. We want the public to see just what it takes to run a Thrashing Machine.



Format Changes for the Tractor Pull on Saturday

The format will be changed for the tractor pull on Saturday. It is very important that you attend the driver's meeting Saturday morning.

Our goal is for the audience to see all types of tractors in a 3 hour span.

Buckeye Tractor Pull Rules

Restoring the past and driving that history down the track is what tractor pulling is about. The tractor pull will be successful as long as we place fellowship, friendship, and enjoyment above competition. These rules are intended to provide tractor pulls that are safe, fair and enjoyable.

TRACTORS

ANTIQUE – A tractor must be a model year 1939 or earlier to participate in the antique tractor pull. No modified tractors will be allowed to participate. Engine bore, stroke and r.p.m. must meet original or factory specifications. Exceptions are up to the Tractor Committee.

CLASSIC – A tractor must be a model year 1940 through 1960 to participate in the classic tractor pull. No modified tractors will be allowed to participate. Engine bore, stroke and r.p.m. must meet original or factory specifications. Exceptions are up to the Tractor Committee.

EXHIBITION – Tractors a little newer than 1960, of permissible weight, can pull for exhibition only. Exhibition pulls will be permitted when time allows.

INSPECTION – Tractors will be inspected during check-in and registration by the Pull Committee or the Track Judges. Any tractor judged to be unsafe or in violation of the rules will not be allowed to pull unless the problems are corrected.

DRAW BAR – The draw bar must be original or match factory specifications. The draw bar must accept a three-quarters (3/4") hitch pin and may be adjusted to not more that twenty (20") inches above the ground. The draw bar height will be checked by the hook-up man. The draw bar height must remain stationary.

WEIGHTS – No weights except wheel weights and frame mounted weights that were factory original at the time that tractor was built may be used. These weights are to be mounted the same way the manufacturer intended the desired weight. **NO TRACTOR SHALL EXCEED 12,000 LBS.**

Tractor Pull Rules continued

STEEL WHEELS – Wheel rims and lugs must be to factory specifications. One set of factory specification extension rims will be allowed.

TIRES & RIMS – Steel wheels cut down and converted to rubber shall have wheel width and tire size, one (1) size larger or one (1) size smaller than factory specifications. Dual wheels and radial tires are not allowed.

Tractor classes will be determined by weight in the following classes:

Antique	Classic Weight Range		
AA	AC	0 to	2,499 lbs.
BA	BC	2,500 to	3,499
CA	CC	3,500 to	4,499
DA	DC	4,500 to	5,499
EA	EC	5,500 to	6,499
FA	FC	6,500 to	7,499
GA	GC	7,500 to	12,000 lbs max. Weight

STEEL – Steel will follow the same Weight Ranges as listed above.

DRIVERS

MEMBERSHIP & AGE – Participants must be current club members. Drivers 17 and under must have parental consent and supervision and must meet the driver standards and pass a certification test.

REGISTRATION & WEIGH-IN -- **Participants** are encouraged to be registered by 7pm on Friday evening. A weight ticket (tractor + driver + all weights) must be provided by the driver.

DRIVERS MEETING – The track judges will conduct a safety and procedures meeting just before the pull starts. All drivers must attend.

SAFE OPERATION – Tractors must be operated in a safe manner at all times. **SPEED MUST NOT EXCEED FOUR (4) MILES PER HOUR ON OR OFF THE TRACK**

PULL PROCEDURES

JUDGES – The pull will be conducted by three (3) judges appointed by the Governing Board and Pull Committee (sled operator, hook-up man and flag man). The judges' decision on rules or safety violations will prevail for the duration of the event.

APPEAL – Drivers removed from the pull for rules or safety violations may appeal the decision of judges at the next scheduled board meeting.

PULL ORDER AND NUMBERS – The order of the pull will be determined by the Show Committee. A number indicating the order of pull will be assigned to each tractor at registration. You will pull in the order discussed in the drivers meeting. If you miss your place in the numbering sequence, your pull time will be determined by the tractor boss. It is up to the tractor chair, tractor boss, or sled operator when it is the best time for you to pull.

Pull rules continued

SCORING – Pulls will be scored on a percentage basis. The calculation for percentage will be the sled weight divided by the tractor weight. Scores will be posted as soon as possible after each pull. Drivers are asked not to bother the Score Keeper or Track Judge with unnecessary questions.

PULLING COMPETITION –

Drivers must start the pull with a tight chain and at the starting signal from the Flagman.

Tractors may not change gears once the pull has started. This includes the use of T/A's and any other kind of shuttle shifting.

Speed must be controlled by a hand throttle only. Strings, wires or foot feeds will not be allowed.

Drivers must remain on the seat and maintain full control of the tractor during the pull.

Tractors must stay within the track boundaries.

If a tractor stops or stalls in the first ten (10) feet, the pull may be restarted, one time only.

The front of the tractor may not raise over twelve (12) inches during the pull. A magnet and chain attached to the tractor near the front axle will determine the rise distance.

All tractors will be flagged if any parts fall off during the pull.

Tractors must **STOP** at the red flag signal from the Flagman.

The first pull in a class may require sled or weight adjustments.

Garden Tractors will be featured



Garden Tractors will be featured at the Buckeye Show as well. Bill Frew is the team lead for this portion of the show. If you are interested in Garden Tractors please let Bill know.

The rules are simple and the main object is to have fun! This is for both the young members and those older members that just like to drive their garden tractors. The rules are simple — please observe them.

Garden Tractor Pull Rules

Competition is open to all rubber tired stock or "off the lawn" two wheel drive garden tractors.

All tractors must be stock. Replacement engines must be similar to original.

Drawbar not to exceed 12" in height.

Minimum $\frac{3}{4}$ " hole in drawbar.

Weight to include driver.

Tractors must be kept in control, to flagman's discretion, at all times.

Drivers must remain seated during the pull.

One hand must remain on the steering wheel at all times.

Both feet must remain on running board at all times.

No jerking sled, chain must be tight at start of pull.

Speed Limit 4mph

The Powder Puff Pull will be held under the lights Saturday night!

The Powder Puff Pull will be held under the lights Saturday night after the Annual Business Meeting. This is a must see event! Everyone in attendance is looking forward to pulling under the lights.

Ladies if you don't feel comfortable pulling out in front of a huge audience this is the time for you to polish your pulling skills. Maybe you have never pulled before and want to see what the fuss is about.

Time permitting this might be a time for Dad's to give their sons or daughters their first time behind the tractor wheel to see how they like pulling. Explore the options!



Pancake Breakfast on Sunday Morning

Debbie Geiger will be running the Pancake Breakfast once again. This is a very special time for all of you that like to get up early. The food is wonderful and the conversation is lively!

Open Pull on Sunday

There will be a open pull on Sunday. You will be pulling for percentages.

This portion of the show is not going to be advertised to the public — this does not mean that we will turn anyone down that wants to watch us pull. This time is for those pullers that say they do not get enough time to pull.

Hit and Miss Engine Construction

A hit-and-miss engine is a type of [Flywheel engine](#). A flywheel engine references an engine that has a large [flywheel](#) or set of flywheels connected to the [crankshaft](#). The purpose of the flywheels is to maintain engine speed during engine cycles that do not produce power. The flywheels absorb power on the combustion stroke and provide power on the other three strokes of the piston. When these engines were designed technology was not nearly as advanced as today and all parts were made very large. A typical 6 horsepower (4.5 kW) engine weighs approximately 1000 pounds. The engine material was mainly [cast iron](#) and all significant engine parts were cast from it. Small functional pieces were made of [steel](#) and [machined](#) to perform their function.

The fuel system of a hit-and-miss engine consists of a fuel tank, fuel line, check valve and fuel mixer. The fuel tank most typically held gasoline. The fuel line connected the fuel tank to the mixer. Inserted into the fuel line was a check valve which kept the fuel from running back to the tank between combustion strokes. The mixer created the correct fuel/air mixture by means of a [needle valve](#) attached to a weighted or spring loaded piston usually in conjunction with an oil-damped dashpot.

Mixer operation was simple, it contained only one moving part, that being the needle valve. While there were exceptions, a mixer did not store fuel in a bowl of any kind. Fuel was simply fed to the mixer, where due to the effect of [Bernoulli's principle](#), it was self metered in the venture created below the weighted piston by the action of the attached needle valve, the method used to this day in the [SU carburetor](#).



Hit and Miss continued

Spark to ignite the fuel mixture was created by either a spark plug or a device called an igniter. When a spark plug was used, the spark was generated by either a magneto or a buzz coil. A buzz coil used battery power to generate a series of high voltage pulses which were fed to the spark plug. For igniter ignition, either a battery and coil was used or a "low tension" magneto was used. With battery and coil ignition, a battery was wired in series with a wire coil and the igniter contacts. When the contacts of the igniter were closed (the contacts reside inside the combustion chamber), electricity flowed through the circuit. When the contacts were opened by the timing mechanism, a spark was generated across the contacts which ignited the mixture. When a low tension magneto (really a low voltage high current generator) was used, the output of the magneto was fed directly to the igniter points and the spark was generated as with a battery and coil.

Lubrication on these early engines was almost always manual (excepting for very large engines). Main crankshaft bearings and the connecting rod bearing on the crankshaft generally had a grease cup which was a small container (cup) filled with grease and a cover which screwed down on the cup.

February Show 2009!

I can't believe that Fall is already here. Our show season is upon us so be sure and dust off all of your "Old Iron" and start getting ready for the upcoming shows. Debbie Geiger is once again Show Chair for the Show in February.

Please step forward and help Debbie make our February Show a huge success. In 2009 we will be celebrating our 30th anniversary. So lets get ready to share our passion for "Old Iron" for those, young and old, that are willing to listen. This is a great opportunity to introduce our Heritage to those who are not familiar with it.

March Show 2009!

Here it is the middle of September and we are just starting to recuperate from the Arizona Summer heat. It is hard to believe that our March Show is catching up to us quickly. Time flies and we need to start thinking and planning for our show.

This Show will be featuring equipment built up to and including the 30's, since we are celebrating the Club's 30th year in existence. We will also be kicking off the fundraising for the Arizona Antique Engine & Tractor Museum.

Larry Stafford

A permanent home is within our grasp!!!!!!

For those of you who do not know or those that do and need an update, here it is.

One of the Club's goals over the past 20 some years, has been to have a permanent home, where we can have display areas and show grounds.

In 2005 Apache Junction Parks Department started a Master plan for the "Apache Junction Rodeo Grounds". We were invited to join in on the planning of the area as we were, and are, one of the main event users of that area. After over a year of planning a "Master plan was adopted for what is to be called the "Rodeo Park Event Center". Included in this is a 1500 space spectator parking area plus another 200 space participant parking / overnight camping area; 25,000 square foot exposition hall building; an amphitheater; a large event grounds area for vendors, fireworks, bon-fire, etc. as well as a Maintenance building; and public restrooms.

A section of ~30 acres has been set aside for a "Tractor Museum, which is to be a fenced area surrounding historical buildings in a village setting, an area for tractor parking and engine displays, a pull track and an entry / ticket plaza. It is envisioned to have 160 parking spaces at the main entrance, For large shows spectators will use the 1500 space parking lot.

Everything inside this fenced 30 acres is left up to us to develop.

We have formed a new organization called the "Arizona Antique Engine & Tractor Museum" with the 501(c)(3) tax status. With the help of 5 key people and a lawyer who specializes in the process, this procedure took only 5 months to complete. The "Arizona Antique Engine & Tractor Museum" can now accept donations, that are tax deductible. We need to start generating funds needed to do our part, this will also push the project along faster.

September 2, 2008, Jeff Bell presented to the city counsel of Apache Junction the following: "Council direction to staff and authorization to work in cooperation with the Arizona Antique Engine and Tractor Museum towards establishing the museum and related facilities in accordance with the rodeo park master plan". The request was voted on and passed with several very favorable comments. This authorizes us to negotiate a lease with the Parks Department.

The Museum Board members are:

Larry Stafford – President

Hermie Hermonson – Vice President

Glenn Fredrikson – Secretary

Calendar of Events

OCTOBER 18—20 — Power from the Past — Helidorado Days' Engine & Tractor Show; Tombstone, AZ

OCTOBER 19th — Power from the Past—Helidorado Days' Parade; Tombstone, AZ

October 20th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7p.m. — Glendale, AZ

October 24th — AEDGE&TA Jack Pot Pull for Charity — Buckeye Heritage Park — 4:30 p.m. — Buckeye, AZ.

October 25th — AEDGE&TA Buckeye Heritage Park Engine and Tractor Show — 9am to 5 pm — Buckeye, AZ

October 25th — AEDGE&TA Annual Business Meeting at the Stew Pot Dinner — 6:00 pm — Buckeye, AZ

October 26th — AEDGE&TA Pull for Percentages Free Pull — 9am to 1pm — Buckeye, AZ

November 17th — **AEDGE&TA Board Meeting** — 7 pm — Glendale Public Library — Glendale, AZ

November 28 & 29th — Power from The Past — Pearce Days' Engine & Tractor Show; Pearce, AZ

December 1st — Iron Record sent to the printers.

December 6th — AEDGE&TA Christmas Party — American Lutheran Church, 1830 W. Glenrosa

December 15th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7 p.m. — Glendale, AZ

December 31st — AEDGE&TA Fun Pull — Arizona National Livestock Show — AZ State Fairgrounds

January 15th — Iron Record is sent to the printers.

January 20th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7 p.m. — Glendale, AZ

February 14th & 15th — AEDGE&TA Winter Tractor & Engine Show — Sahuaro Ranch Park Historical Area — Glendale, AZ

February 17th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7 p.m. — Glendale, AZ

February 27th — AEDGE&TA Iron Record is sent to the printers

March 14th & 15th — AEDGE&TA Superstition Spring Tractor & Engine Show — Tomahawk Rd. — Apache Junction, AZ

March 16th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7 p.m. — Glendale, AZ

April 13th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7 p.m. — Glendale, AZ

April 15th — AEDGE&TA Iron Record is sent to printers

May 2nd — AEDGE&TA Annual Business Meeting — Sahuaro Ranch Park Historical Area — 59th & Brown — Glendale, AZ — Annual Election of Board Members

May 10th — Mile High Tractor Club — Chino Valley Pull

May 18th — **AEDGE&TA Board Meeting** — Glendale Public Library — 7p.m.— Glendale, AZ

Arizona Early Day Gas Engine & Tractor Association

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We play with Old Iron



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The Arizona Early Day Gas Engine & Tractor Association® was founded in 1979. It is a no profit incorporated organization which started with 14 Charter Members.

AEDGE&TA® has members from all over Arizona as well as memberships from across the U.S. and even global members.

We are starting a new show this year — it will be in October in Buckeye the weekend of the 25th. The Winter Show is the second weekend in February in Glendale and our Spring Show is the second weekend in March in Apache Junction as well as several smaller guest shows during the year.

Members share a common interest in restoring engines, tractors and other related equipment from the turn of the century. This type of collecting and restoration has become increasingly popular in all parts of the world.