



# M.D.R.A. Report

Volume 5, Number 3



Cover: Dave Young & JR's Patriot on a K1800. Photo by Mitch Guess.

## Editor's Corner :

*email: robertu@erols.com*

*Editor Bob Utley*

### **THE END IS NEAR, THE END IS NEAR!**

Reminds me of an old guy with a long white beard and robe holding a sign. The truth is, to me, the flying season is over. Next month we start another season that runs till August.

With that said, you will see some changes at the fields. In an effort to make the launches easier and fun for all, we keep trying new ideas. Not all of them work, but we keep trying.

We are trying to move the crowd away from the LCO table during launch of the rack. That's why there is long yellow tape and a viewing area on both sides. Otherwise, your conversation is heard over the PA system. Also, it allows the LCO person to see the field and flights.

The RSO table will be shut down when the LCO is launching rockets. That way everyone can watch the launch. In addition you must show your MDRA membership card, Launch Reg. Sticker. If you want to fly H and above you will need to show a current national membership card too. This should help reduce trips back to the RSO table if you didn't bring it up with the rocket.

Parking control, never thought I'd say that for a launch. In an effort to help get as many cars on the correct part of the field and have some order we will have someone directing traffic. This will happen in the morning, by mid day it should be obvious where to park.

We welcome everyone to our launches. Kids are a big part of the launch, who do you think wears out our Estes pads? Parents remember, their your kids, not someone else's to watch. Watch your kids and know where they are at, at all times, Please take responsibility for them while you are at the field.

Ok, I'm almost done. If you have a suggestion good or bad, let me know, because we do this for the members of MDRA. Any input is welcome, ok, some more than others but we will do our best to make the launches what you want. Every weekend is not possible, but our fall/winter

schedule will be twice a month, how much better can it get?

See you at the field.

### **ESL #52**

### **Central Sod Farm, 7/27&28/2002**

One of the great benefits of living in the Mid-Atlantic region is the weather. When it is good it is fantastic and when it is bad it doesn't come any more rotten for us Rocketeers. Originally being from the Boston area I can say that we have mild winters, long mild springs and falls and relatively short winters. Why dose this matter, you say? Because it translates into opportunities to fly rockets. Now the only problem is finding suitable fields to reach for the sky.

Once again this summer our hats go off to the Warpinskis who own the Central Sod Farm for launch 2 of what will turn into a 4 launch season. They have allowed the MDRA to fly on what I would consider the most scenic of all of launch sites. Granted we have been limited to mere M motors on the smallest of the 4 fields that MDRA flies on, but I think we can adapt to those limitations.

Saturday, 7-27-02 was our warm up day and who better to start off the festivities with the first flight of our summer season, none other than Kathy Gilliland, aka: Princess Prechlorate, flying her Estes Impulse on two D-12's for a great flight. Kathy also flew her Star Blue and Graduator on G and F power. Mitch Guess flew five times this day with five different rockets spanning the power range between B and H. Seth Harris flew his Mirage on H and I power. Scott Hayes got in three flights pushing his vehicles on G, H and I's. Bob Lussier was working with F-40 and G-40 motors in his two fights with his Forte' and 4-29-ss.

Varn Masheshvori stayed at the front of the alphabet with his two A and B flights. Neil McGilvray was slumming with White Trash on a J-650 and Slam Dance on an L-1000. Nick Mehta had three Este's flights in the B and C range. Elaine and Russell miller combined for five flights, 4 in the H power spectrum and one with an I motor.

Wayne Parker managed 6 flights spanning the front of the alphabet from C to G, all for nice flights. Jennifer Purrrspean Flew her scratch built Pringle light on E-9 for a nice flight. Rob Roberts had one of the

more note worthy flights of the day. Rob flew his LOC EZI, call Un-EZI (we soon learned why) on an AN motor. Many of us have never seen one of these fly and historically for good reason. One this day it was not the case. The motor was an I-170 with a Kn of 650 if I remember correctly. A beautiful flight and flame was followed by Rob stating something to the effect "Oh darn! I think I forgot to arm my altimeter" As the rocket arced over and began heading for mother earth it became apparent that "yes Rob, you are correct" The rocket impacted the near by pond like an Olympic Diver. The results didn't score 10's across the board though. The rocket was totally destroyed to the point that the altimeter battery was crushed in the impact. Who says water is soft? Rob also flew his LOC IV with much better results. Joe and Michael Ruzzi combined for five flights covering the C to H range.

Fred Schumacher had two nice flights with his Overkill 4" rocket on a Red Neck Red K-450 Load and then his Overkill 6" rocket on a central L-1800, air starting two J-350's. It's a beautiful thing when it works and Fred completed his day with "Cool" flights. Ross Sorci managed a mere nine flights in the B, C and D range. Michael Stiffer had a great flight on his Bomarc powered by an H-124. It is really cool to see the rockets with "wings" fly. Too bad you can't glide land them and enjoy the flight even longer. Charles Stone flew twice with C and D power.

Bob Utley took to the air once with his Gay American on a Snot green motor of his own making and a flight of his own making. The rocket is repairable. Brenda Wallace had two flights on this day. One with her Big Bertha on an E-30 and the other on her Coors Light powered by a D-12. Dave Weber was able to get away from the registration desk long enough to get in three flights and get his Nike Smoke on an F-20 into the air. , his Norad on a g-80 and Warlock on a J-460. All for nice flights. The team of JR and Dave Young with a little help from Bob Utley got the big Patriot into the air with an L-1800 for a spectacular flight.

**Sunday, 7-28-02,** was another picture perfect day and the crowd was there early to get "rock"eting and rolling. Alex Baker had three Estes flights in the C and D range. Alex also showed Dave Bullis the finer points of High Powered flight with

Dave's Super Sonic Salvation powered by an I-284. Lou Berlin made it to the pads six times flying everything between a C and an I-200. Don Brown flew three times slamming his rockets on F, H and I power. Gary Deaver launched twice with I-284 propulsion. Mike Debay did some static fire testing with H motors and flew with the tested propellant with a J-650 in his Slippery When Wet, wet floor warning cone rocket. Yes it does fly and it does fly well. Mark Eurek certified Level One with his Tomahawk on an H-283. Welcome to the club Mark!

Steve Hackett flew three times; the most spectacular was on his big Lance Beta powered by an L-1800. The flight was perfect, the recovery effort...well let's leave it at that a recovery effort. Eric hall was performing more beta testing on his Ozark Electronics. Eric flew on E, F and J power. Scott Hayes launched twice on this day. Once with F power and once with J power. Tom Hier also flew twice on H and J power. Steve Hutchinson flew twice with his Miranda on a G-80 and his Bigger Mosquito on an E-15. Sean McAndrew launched his Magnum on a K-400. Scott McCluskey got in two flights on H and J power. Neil McGilvray flew Slam Dance again on an L-1700 Blue motor. Nice flight but the nose cone came off at apogee and floated over the tree line to become lost in the soybean field.

Ben Miller had two flights on H and J power. Paul Miller took to the skies six times. Once was for his Level Two attempt. Unfortunately the J-350 motor decided that it was a good time to dial 1-800-KAA-BOOM. Better luck next time. Russell Miller flew three times on H and I power. Dave Olson had triplets as he flew three times on F-20 power in his initiator. Jerry O'Sullivan suffered a tragic loss of a beloved family member on this day as his venerable Sand Hawk rocket suffered the near total destruction at the hand of an L-2000 Cato. The good news is that it made for a really cool flight, if you could call it that. But without taking that next step you can't move forward. Jerry has always been willing to take the step.

Wayne Parker launched five times on e to G motors. Mike Plitt had two cool flights of his Mars Lander on G-80's and one flight on a C-6. Mark Polansky turned some heads with his Nike Hercules on a J-350 for

a great flight and his Silver Bullet on an I-284. Ted Proceus launched three times on F, I sparky and J tiger tail motors. Kevin Quire's ASP screamed off the pad on a J-650.

Lynn Reamy took to the air with her Tabitha on an H-123 for a nice flight. Emily and Jon Rose combined for five flights in the F, H and I range. Mike Roszbach flew twice on G and H motors. Karl and Scott Schuler combined for five flights in the C to f range. Fred Schumacher flew two more times one on F power and his second flight was a K-450 Drag Race with Dave Weber. Who won? Who cares? To see two big rockets roaring off the pad, and actually launch that way purposely, was a sight to behold. Bill Schworer had 1 ½ flights. While Bill's Sudden Rush did leave the pad, the horizontal trajectory was not in keeping with a completed flight. Kevin Scimgeour flew six times E to H power. George Sechrist had two flights and opposite ends of the power spectrum. One was on a C-6, call 9-11 Remembrance and the second was his Top Dog on an L-952. You have got to love this motor. The rocket had a beautiful flight on the trade mark White Lighting smoke trail. The only problem was the main did not deploy fully and the recovery sent George back to the repair shop. Joe Sorrentino had two F flights. Dale and Dick Stafford combined for four flights ranging from D to I power. Todd Stell flew twice on G-33 and G-35 motors. Nikki Taylor got in four flights on C and D power. Norwood Truitt had his sand Hawk and Ol' Sparky in the air on I power.

Rich Cluster had his scratch built Fabulous Flying Fence Post aloft on I-284 power. This was actual a fence post shaped rocket that flew and was recovered perfect. That is the beauty of flying MDRA is that if you can demonstrate that it will safely fly, we will push the button. William and Kerrin Vinney combined for eleven flights in the A top G range. Larry Wals teamed up with Dave Bullis for a flight of his Israeli defense force rocket on an I-284. Dave Weber took to the air three times. The most notable being his K-450 drag race with Fred Schumacher. Next time they drag race they will stay true to form and run across the field in women's clothing. Something neither is a stranger to, Bob Utley assures me. Steve Wilson teamed up with Rich Cluster for a

flight of his sand hawk on an H-153 for a nice flight.

The biggest rocket of the week end was Darren Wright's 17' tall D-Region Tomahawk powered by an M-3500. At the push of the button the M motor pressurized and started moving the rocket off the pad. Unfortunately no one told the motor it could stop pressurizing and it dialed in that now famous number 1-800-KAA-BOOM! Suddenly a cool flight was transformed into a really cool flight. It happens to the best of us and in true rocketeer's spirit Darren will be back at it again. An experience like this is just an opportunity for a solution.

Until next time build them big, build them strong, fly them high and recover them low.

*Neil McGilvray*

## **ESL #53 Central Sod Farm, 8/11/2002**

It was busy at Central Sod Farm on 8/11 and I don't mean the grass was getting cut. Nope, it was a day custom made for rockets of all sizes and types. With no major disasters it was a thankful contrast to the last launch here. And a great turnout it was....

Andy Brian let go his Estes Thunder on a G35. An Estes rocket on a G motor...I guess he really didn't want it back. Clark Carrington was productive with 4 flights on different rockets ranging from E to H power.

Chris Cox flew a scratch built Big Bertha on D12's and a C6. Sorry Chris, I can't tell from the flight card if you flew a clustered or staged flight... Jim Cox had PML kits Excaliber and Callisto flying on an H128 and G80 respectively. Gary Deaver showed his appreciation for the Aerotech I284 motor by flying his PML Tomahawk twice on the same powerplant.

Mike Debey came to fly. His scratch built Freedom on an H180 deployed slightly early but he reports he knows why and will correct it on the next flight. He also let loose with a PML stretched Explorer on an I220 for a nominal flight.

Mark Eureka had flights on his scratch Alpha 2.6 on an E28 and Aerotech

Mirage on a G33. Ivan Galysh went the hybrid route with his PML Black Brandt on a J190 and his LOC EZI-65 on a I705. Ivan also flew an ATV rig, which if you wouldn't mind sharing the details we'd appreciate it. Rob Gilbert launched his scratch built Angelina Rose on an F25.

Kathy Gilliland, color coordination expert, flew her Star Blue on a G80 and H123. She then showed the guys how to fly with her Star Seeker on a J570 Redneck Red motor. Kathy, you're awesome as usual!

John Gramick came out ready to fly with a North Coast Rocketry Eliminator on a G35 and NCR Big Brute on an F50. He also flew his LOC Norad on a F50. Nice busy day there John. Augie Gray, one of the MDRA recently minted Level 3 fliers was back to L1 stuff with flights on a PML Patriot on H238 power and Aerotech Wart Hog on the F50 powerplant.

Eddie Hale kept the Estes rack busy with 4 flights in the A to B range while Wayne Heizer flew his Bumble Bee (do you know Rich Custer?) on an H128. Wayne followed up with his PML Amraam on an I211. Nice WL motor and flight.

Richard Hickock again garnered the "Frequent Flyer" award with 9 flights ranging from B to E impluse. Just curious Rich, is there a "G" or higher motor in your future? Not that there's anything wrong with little wimpy motors.....☺))

Tom Hier flew his LOC Mini Magg twice on H105 and I125 motors. Jeff Hooker had the "M" fleet - Matrix, Miranda, Mustang, on F through I power. Rob Kaufman decided to let it rip with his Binder Design Velocilator on a K350. Now we're talkin!

Scott McCluskey had 2 sizes of Loc Forte on the field - the Loc kit version flew great on an Econojet G35. His scratch upscale 5.38" model, built as a test vehicle for 2 stage deployment with a Blacksky ARRD (Advanced Rocket Recovery Device) launched on an AT J415 to 2300' or so and had a perfect main deployment at 800' via the Missile Works RRC2. Nice work there Scott.

Elaine Miller had a PML kit loaded with an H150 class super blue propellant. I trust the recovery was good! Rick Oasen let go 2 flights on F and G power, while Dave Olsen had 5 flights. Three of those were

Comanche attempts at staging, the remaining two were AT Initiator flights. I believe Dave's last Comanche 3 stager ended with a core sample. Sorry Dave and believe me I know how you feel☺

The rocket gods were smiling on me this day. The first flight of the launch was my Honest John on an H180 with, gasp, motor ejection. The short delay was perfect. I was a recipient of major generosity by Bob Utley and Fred Schumacher when they offered me their newly cast 54/2550 Redneck Red load. It scooted High Five to 6500' in a hurry. The sky diving smoke canister marked its descent for easy tracking and it landed just a few hundred yards from the pads.

I had several 29mm SU motors and had repaired my Take 5 booster, so I loaded it up for its first flight in 2 years. Boost on 2 H120's was fast and straight, airstarts of the 2 H124's was on time, and the final G80 fast white lightning fired just after the H124's. Great flight to just under 3,000' with nominal recovery. I loaded up High 5 once more for another good flight to 3900' on a Darren Wright 1440 green load. As you probably know, more details, along with pictures and videos are available on [WWW.VAHPR.COM](http://WWW.VAHPR.COM) (or will be when I move to a new server soon).

Wayne Parker also had 4 flights on the day with AT, scratch, and PML kits on D though G power. Good job Wayne. The Pratt clan came to fly! Doug was busy demonstrating the new Propulsion Polymers hybrids while kids Brian and Valerie worked the Estes pads.

Ted Proseus flew his "Upper Air Disturbance" (cool name don't ya think?) on an F motor and his Cherokee on a really nice "K" class aqua motor. He also launched his PML Endeavor in an I class smokey load. Jonathan Raines stepped up to high power with a flight of his Loc Expeditor on an I161. I could be wrong, but judging by his expression as he returned to the flight line I can only assume that the flight and recovery were less than stellar. Don't give up Jon...Nar guys really can fly HPR.....

John Ritz drove down from way up in NY to fly his Loc Forte twice on J motors and his scratch built Greenie on a G35. Nice flying John and be sure to forward your still shots to Bob Utley☺ Tom Rozman had a PML Small EEndeavor go on a H121, while TRA EX guru Ben Russell flew his 4" PML

Endeavor on a J600 of his own design. Nice boost, no main. I'm sure you've determined the culprit!

Fred Schumacher was the big dog today. His 6 inch diameter Overkill 6 had a righteous 60000ns red motor which made for a beautiful flight and exciting recovery. You'll have to ask the onlookers about that last.... Prior to the big one Fred flew his 4" Overkill for a perfect flight and clean landing. Nice work Dr Recovery☺

Wow, the Scrimgeours were far and away the most prolific fliers... between Allie and Kevin, a total of FOURTEEN flights were logged. I don't know for sure but that's got to be some record☺. Motors ranged from "C" to "H". Great job guys!

We're still waiting (and so is George) for George Sechrist to get his Level 3 on the N2000....In the meantime, George keeps his skills current with flights of his Loc Bruiser on a J360 and Loc Minnie Magg on an H112. Gary Singer flew a True Modeler Sentry on an E30 then followed up with high power on his scratch built My First Panic on a J415.

John Soltusik was out to do Level 1 in style with about the biggest motor possible in his scratch built creation. The I284 is loud and in your face. We love it and look forward to your Level 2 and 3 flights.

Ross Sourci tried to wear out the Estes rack with 7 flights on B through D impulse while Joe Sorrentino went C through G on Estes, Loc and Vaughn Brothers kits. Dick Stafford had 5 flights, one of which was an upscale Big Bertha flying on a cluster of an I211 and 2 G80's. Nice.

Bob Utley dusted off Primo for another ride, this time on another Redneck Red K450. A great motor, and so far it's been 100% reliable. Now if you can make it pink, Kathy'll really like it☺

Fred Wallace was one of the bigger dogs with his Scratch Bad Boy on a great L800 white flame and smoke motor of his own creation. Very cool.

Dave Weber logged flights 139 and 140 on the venerable Tuber. That's amazing – 1 rocket and 140 flights??? Talk about records... Dave also flew his Loc Hi Tek on an I112.

Dennis Welch had 4 flights, one of which was a Hawk Mountain Raptor on an F62. Nice kits they are – built for speed! Darren Wright was trying to move the earths

orbit with static fires of a new green formulation on a J100 and M1000. That M had a serious trail of mach diamonds – too bad I ran out of film.

Larry Zupnyk flew his scratch EZL-Super on an L1175 – nice, aggressive motor and a great flight.

Thank goodness for the generosity of the Warpinsky clan. Without them and folks like Tommy Higgs we'd be outta luck. It's easy to take for granted a premium launch site like the sod farm or Tommy's place, but we do so at our own peril. Next time you're out at a launch and have a chance, introduce yourself and say thanks to Jack and family and Tommy. We fly at their pleasure.

*Jerry O'Sullivan*

## Making Igniters



Making your own igniters is not that hard. You will need 22 gauge solid core wire, or smaller if you like, Nichrome wire, soldering iron and some time. Performance Hobbies, Firefox and other places sale pyrogen mix then dip the igniter in.

Here are the steps I use.

1. Cut the wire 3' or 6' long or longer depending on what motor you plan to use it in. Strip both leads of one end of the solid core wire for connection to the launch clips, twist them together now.
2. At the other end of the wire cut on lead 1 ½ inch shorter than the other.
3. Strip both leads of the uneven end.



4. Take the nichrome wire, wrap it first around the stripped copper of the shorter lead, Solder it to the shorter lead now.

5. Wrap about 5-6 turns around the INSULATED part of the longer lead and then wrap the rest around the uninsulated part of the longer lead, and solder it.

6. Cut the extra wire at this time, after you have soldered it to the longer lead. This makes it easier to handle the nichrome wire.

6. After making about a dozen or so wires I mix up the pyrogen as per the instructions. I dip the igniter in the mixture so it come up pass the nichrome wire to the insulation, then remove it. Keeping the igniter in the same position so any excess pyrogen drips back into the mixture then hang to dry.

7. Most pyrogen dries in about 2 hours. Once dry, I fold the igniter and put tape around it. Putting a soda straw on the end to protect it.

*Bob Utley*

## PERFORMANCE HOBBY

<http://www.performancehobbies.com>

Need parts for your rocket, tell Kenny and he'll bring them to the launches.

Almost anything you could need they should have. Phone (202) 723-8257, fax (202) 723-0010.

## NEXT ISSUES:

- How to use chutes from Neil.
- Launch report of Sept & Oct.
- Events for Nov & Dec.
- Another last page funny.

Keep The Pointy End  
up and the Fier y  
End down.  
D. Bull is

<http://www.mdrocketry.org/>

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A Friend of one of MDRA's members works at the Cape and sent this picture for us

## Log July 27, 2002 ESL #52

Flyer		Manufacturer	Model	Motors	Result
Gilliand	Kathy	Estes	Impulse	D12,D12"	
Gilliand	Kathy	Aerotech	Star Blue	G40	
Guess	Mitch	LOC	Graduator	F32	
Guess	Mitch	LOC	V2	H128	
Guess	Mitch	Estes	Amraam	C6	
Guess	Mitch	Estes	Megace	B6	
Guess	Mitch	LOC	IV	G64	
Harris	Seth	Aerotech	Phurchpean	G80	
Harris	Seth	Aerotech	Mirage	H180	
Hayes	Scott	Scratch	38mm Dart	H73	
Hayes	Scott	Scratch	Solaris	I218	
Hayes	Scott	Scratch	Red Mailer	G80	
Lussier	Robert	LOC	Forte	F40	
Lussier	Robert	LOC	4-29-ss	G40	
Maheshvori	Varvn	Estes	Turbo Copler	A8	
Maheshvori	Varvn	Estes	Atema	B6	
McGilvray	Neil	Scratch	Slam Dance	K1000	
McGilvray	Neil	Scratch	White Trash	J650	
Mehta	Nick	?	?	?	?
Mehta	Nick	Quest	Omloid	C6	
Mehta	Nick	Estes	Mach 12	B6	
Miller	Elaine	PML	Naked Blade	H125	ml
Miller	Elaine	PML	Naked Blade	H125	Snot Green
Miller	Russel	Scratch	Yellow Jacket	H125	
Miller	Russell	Scratch	Blackly	I38	
Miller	Russell	Scratch	Whimpy	H128	
Parker	Wayne	Estes	Astrocan	C6	
Parker	Wayne	Estes	Astrocan	C6	
Parker	Wayne	Aerotech	Barracuda	G80	
Parker	Wayne	Estes	Astrocan	C6	
Parker	Wayne	Estes	Astrocam	C6	
Phurrspean	Jennifer	Scratch	Pringles Light	E9	
Roberts	Rob	LOC	Un-EZI	I170	AN motor
Roberts	Rob	LOC	LOC IV	H133	
Russell	Ben	Scratch	Black Brant V	J300	
Ruzzi	Joe	Scratch	Citation Patriot	H153	
Ruzzi	Michael	Scratch	Yellow Rocket	F23	
Ruzzi	Michael	Scratch	Lighting	E9	
Ruzzi	Michael	Scratch	Astro	D12	
Ruzzi	Michael	Scratch	TARTAR	C6	
Schumacher	Fred	Scratch	"Overkill 6"""	"L1800, J350 (2)"	
Schumacher	Fred	Scratch	"Overkill 4"""	K450	Red Neck Red
Sorci	Ross	Estes	Ninja	D12	
Sorci	Ross	Quest	Nike K	B6	
Sorci	Ross	Estes	Black Brandt	D12	
Sorci	Ross	Estes	Ninja	D12	
Sorci	Ross	Quest	Nike K	C6	
Sorci	Ross	?	?	C6	
Sorci	Ross	Scratch	Falcon	C6	
Sorci	Ross	Quest	Nike K	C6	
Sorci	Ross	Estes	Mach 12	C6	
Stiffer	Michael	Estes	Bomar	H124	
Stone	Charles	Estes	Little Star Burst	A6	
Stone	Charles	Estes	Super Shot	C6	
Stone	Charles	Estes	Storm Caster	D12	
Utley	Bob	Scratch	Gay American	H120	Snot Green
Wallace	Brenda	Estes	Big Bertha	E30	
Wallace	Brenda	Estes	Coors Light	D12	outstanding name
Weber	David	Scratch	Nike Smoke	F20	
Weber	David	LOC	Warlock	J460	
Weber	David	LOC	Norad	G80	
Young	JR/Dave	PML	Patriot	L1800	ml



## Log July 28, 2002 ESL #52

Flyer		Manufacturer	Model	Motors	Result
Baker	Alex	Estes	UFO	C6	
Baker	Alex	Estes	Navy	C6	
Baker/Bullis	Alex/Dave	Scratch	Super Sonic Salv	I284	
Berlin	Lou	Scratch	Plum Crazy	H180	
Berlin	Lou	Scratch	Christine	H124	
Berlin	Lou	Estes	Astrocum	C6	
Berlin	Lou	Estes	Astrocum	C6	
Berlin	Lou	Estes	Astrocum	C6	
Berlin	Lou	Scratch	Saqitta	I200	
Brown	Don	Thoy	Phoenix	H123	
Brown	Don	NCR	Patriot	I161	
Brown	Don	Aerotech	Wuzza Warthog	F20	
Deaver	Gary	Scratch	no name	I284	
Deaver	Gary	Scratch	Pioneer	I284	
DeBay	Mike	Scratch	static fire	H125	ld
DeBay	Mike	PML	Explorer	H125	ld
DeBay	Mike	Scratch	Slippery When Wet	J650	LD
Eurek	Mark	PML	Tomohawk	H238	*Cert 1* Got it
Gray	Augie	Aerotech	W arthog	F50	
Hackett	Steven	Scratch	La Force	G80	
Hackett	Steven	Scratch	Lance Beta	L1800	ML
Hackett	Steven	Scratch	PAC 3	F50	
Hall	Erik	PML	Ozark X	J500	
Hall	Erik	Aerotech	Ozark 1	F50	
Hall	Erik	Aerotech	Ozark I	E23	
Hayes	Scott	LOC	Magnum	J460	
Hayes	Scott	Scratch	Red Balsa Fin Thing	F20	
Hier	Tom	LOC	Minnie Magg	H135	
Hier	Tom	PML	Amraam	J280	
Hutchinson	Steve	PML	Miranda	G80	
Hutchinson	Steve	Scratch	Bigger Mosquito	E15	
McAndrew	Sean	LOC	Magnum	K400	
McCluskey	Scott	Scratch	Upsale Forte	J350	
McCluskey	Scott	Scratch	no name	H238	
McGilvray	Neil	Scratch	Slam Dance	L1700	blue
Miller	Ben	Scratch	WIA	J750	
Miller	Ben	PML	Callisto	H200	
Miller	Julia	Estes	Alpha	A8	
Miller	Paul	Scratch	Cotriss Performer	F26	
Miller	Paul	MSH	V2	H128	
Miller	Paul	LOC	Bruiser	J350	*Cert 2* Cato
Miller	Paul	Aerotech	Barracuda	F54	
Miller	Paul	Estes	Broadsword	E9	
Miller	Paul	Estes	V2	D12	
Miller	Russ	Scratch	Misselanius	I38	
Miller	Russ	Scratch	Short/Fat & Bald	H180	
Miller	Russell	Scratch	Blackie 2	I285	
Olson	Dave	Aerotech	Initiator	F20	
Olson	Dave	Aerotech	Initiator	F20	
Olson	Dave	Aerotech	Initiator	F20	
O'Sullivan	Jerry	Scratch	Sandhawk	L2000	sorry Jerry.....
Parker	Wayne	LOC	Stars & Strips	F50	
Parker	Wayne	LOC	Onyx	G80	
Parker	Wayne	PML	C4A	F50	
Parker	Wayne	PML	Calisto	G80	
Parker	Wayne	Scratch	Buzz	E9	
Plitt	Mike	Estes	Navy Rocket	C6	
Plitt	Mike	Scratch	Mars Lander	G80	
Plitt	Mike	Scratch	Mars Lander	G80	
Polansky	Mark	Scratch	Nike Hercules	J350	
Polansky	Mark	Scratch	Silver Bullet	I284	
Proseus	Ted	Scratch	Javelin I	sparky	
Proseus	Ted	Scratch	Let's Call it a Nike	J500	Tiger Tail
Proseus	Ted	Scratch	Pyramid	F32	
Quire	Kevin	Scratch	Asp	J650	
Reamy	Lynn	LOC	Tabita	H123	
Rose	Emily	Estes	Amraam	C5	
Rose	Jon	Scratch	Hypo Active	H210	

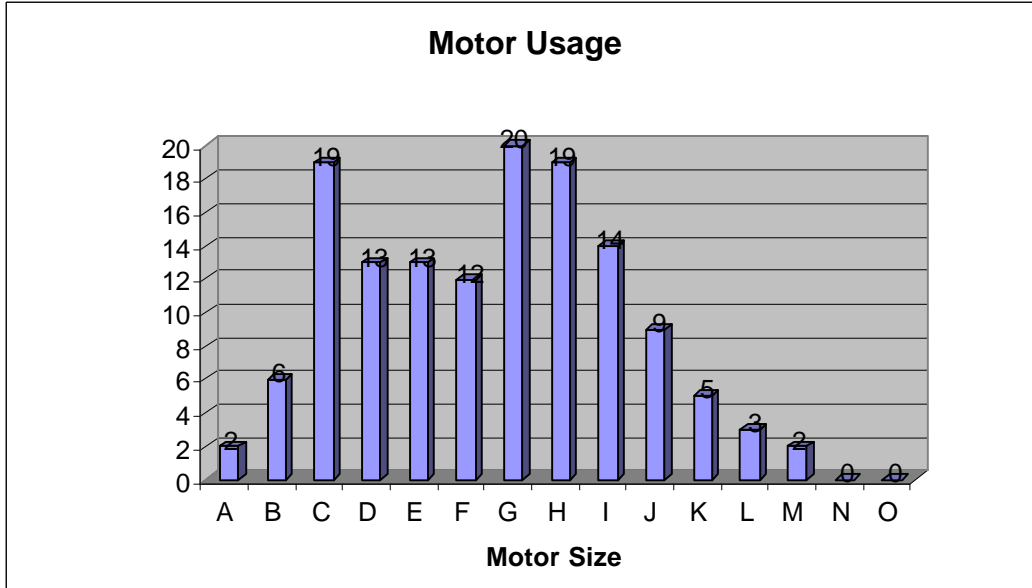
Flyer		Manufacturer	Model	Motors	Result
Rose	Jon	Scratch	Up-Roar	I161	
Rose	Jon	Scratch	Skyneedle	F40	
Rose	Jon	Scratch	Sky Needle	F52	
Rossbach	Mike	Scratch	Nike Smoke	G64	
Rossbah	Mike	PML	Ariel	H123	
Schuler	Karl	NCR	Black Brant XII	D12	
Schuler	Karl	NCR	Rascal-2S	"C6,C6"	
Schuler	Karl	NCR	Grenade	C6	
Schuler	Karl	Aerotech	Strong Arm	F23	
Schuler	Scott	Scratch	Finster Blast	D12	
Schumacher	Fred	Scratch	Overkill J r	F20	
Schumacher	Fred	Scratch	"Overkill 4""	K450	ML Drag Race
Schworer	Bill	PML	Sudden Rush	I284	
Schworer	Bill	PML	Amraam	G33	
Scrimgeour	Kevin	PML	Navy Blue	H180	
Scrimgeour	Kevin	Aerotech	Red Rover	F20	
Scrimgeour	Kevin	V.B.	Big Red	E17	
Scrimgeovr	Kevin	Scratch	Purple Haze	G35	
Scrimgeovr	Kevin	V.B.	Purple Haze	G80	
Scrimger	Kevin	Scratch	Skye-A-Deli	F100	
Sechrist	George	Scratch	Top Dog	L952	
Sechrist/Bracken	George/ Andy	Scratch	9/11 Rememberanc	C6	
Sorrentino	Joe	True Modeler	Nike Smoke	F24	
Sorrentino	Joe	Aerotech	Arreau	F40	
Stafford	Dale	Scratch	7.5X9 Saucer	D12	
Stafford	Dale	NCR	Big Brute	G80	
Stafford	Dick	Rocketman	Crusader	I211	
Stafford	Dick	Scratch	Standard Cray ARM	H123	
Stell	Todd	Aerotech	Arcas	G35	
Stell	Todd	Aerotech	Strong Arm	G33	
Stell	Todd	Estes	Big Daddy	D12	
Taylor	Nikki	Estes	Little John	C6	
Taylor	Nikki	Estes	V2	D12	
Taylor	Nikki	Estes	Big Bertha	C6	
Taylor	Nikki	Estes	Standard Arm	C6	
Truitt	Norwood	Scratch	Sandhawk	I134	
Truitt	Norwood	Scratch	Ol' Sparky	I140	
uster	Rich	Scratch	Fabulous Flying Fencepost	I284	
Viney	Bill	Scratch	Crayola	G64	
Viney	Karrin	Rouge Aero	Rainbow	B6	
Viney	Kerrin	Rouge Aero	Goldie Lox	B6	
Viney	Kerrin	Scratch	Twin	A3	
Viney	Kerrin	Estes	Big Dog	C6	
Viney	William	Estes	Honest John	D12	
Viney	William	Scratch	Toilet Plunger	E27	
Viney	William	Scratch	Crayola	G33	
Viney	William	Estes	Big Bertha	"C6,C6,C6,C6, D12"	
Viney	William	Estes	Honest John	F12	
Viney	William	Aerotech	Mirage	G64	
Wals	Larry	Scratch	Israile Defen Force	I284	
Weber	David	LOC	Minnie Magg	I112	
Weber	David	LOC	Warlock	K450	ML Drag Race
Wilson	Dustin	LOC	Legacy	F50	
Wilson	Steve	LOC	Viper III	E30	
Wilson	Steven	Cluster R	Sandhawk	H153	
Wright/O'Sullivan	Darren/Jerry	Scratch	D-Region Tomahawk	M3500 ml	

A	4	10
B	6	30
C	28	280
D	16	320
E	10	400
F	28	2240
G	23	3680
H	28	8960
I	20	12800
J	14	17920
K	5	12800
L	6	30720
M	1	10240
N	0	0
O	0	0

189 TOTAL MOTORS 100400 NEWTON/SECONDS

Atlantic	0
Aerotech	19
Apogee	0
Binder	0
BSD	0
Centuri	0
Cluster R	1
Custom Rockets	0
Dynacom	0
Edmonds	0
Estes	39
Giant Leap	0
Hawk Mountain	0
High Flight Tech	0
Hobby Lab	0
Impulse Aero	0
JD Cluster	0
LOC	20
Launch Pad	0
MSH	1
NCR	5
Neubauer	0
PML	15
Pratt Hobbies	0
Public Enemy	0
Quest	4
Rocketman	1
Rocket R&D	0
Rocket Teck	0
Rogue Aero	0
Rocket Vision	0
TCB	0
Thoy	1
True Modeler	1
Scratch	74
Smokin Rockets	0
V.B.	2
Unknown	2
US Rockets	0
Weber Eng.	0

185 TOTAL ROCKETS



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Paul Millers V2.



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Dave Webbers Mini Magg

## Log August 11, 2002 ESL #53

Flyer		Manufacturer	Model	Motors	Result
Brian	Andy	Estes	Thunder	G35	
Carrington	Clark	Aerotech	Maverick	E15	
Carrington	Clark	Scratch	Tra La La Boom	F39	
Carrington	Clark	PML	Mini BBX	H268	
Carrington	Clark	Aerotech	G-Force	G80	
Cox	Chris	Scratch	Big Bertha	"D12,D12"	
Cox	Jim	PML	Exclibur	H128	
Cox	Jim	PML	Callisto	G80	
Deaver	Gary	PML	Tomahawk	I284	
Deaver	Gary	PML	Tomahawk	I284	
DeBay	Mike	Scratch	Freedom	H180	
DeBay	Mike	PML	Stretched Explorer	I220	
Eurek	Mark	Scratch	Alpha 2.6	E28	
Eurek	Mark	Aerotech	Mirage	G33	
Galysh	Ivan	PML	Black Brandt	J190	
Galysh	Ivan	LOC	EZI-65	I705	
Gilbert	Rob	Scratch	Angelina Rose	F25	
Gilliand	Kathy	Scratch	Star Blue	G80	
Gilliand	Kathy	Scratch	Star Blue	H123	
Gilliand	Kathy	Scratch	Star Seeker	J570	Red Neck Red
Gramick	John	NCR	Elimingto r	G35	
Gramick	John	NCR	Big Brute	F50	
Gramick	John	LOC	Norad	F50	
Gray	Augie	LOC	Mini Mag	H180	
Gray	Augie	Aerotech	Wart Hog	F50	
Gray	Augie	PML	Patriot	H238	
Haile	Eddie	Estes	Edmond	A4	
Hale	Eddie	Estes	Little Ed	A6	
Hale	Eddie	Estes	Wonderfull	B6	
Hale	Eddie	Estes	No-Name B4		
Heizer	Wayne	PML	Amraam	I211	
Heizer	Wayne	High Flight	Bumble Bee	H128	
Hickok	Richard	Scratch	Screw	C5	
Hickok	Richard	Scratch	Bell X-1	E15	
Hickok	Richard	Scratch	Hyperion	D12	
Hickok	Richard	Scratch	Fred's Froc	B4	
Hickok	Richard	Scratch	Bunker Buster	E15	
Hickok	Richard	Edmonds	Dee-Cee Thunder	D12	
Hickok	Richard	Estes	Phoenix	E15	
Hickok	Richard	Scratch	Alarm	D12	
Hickok	Richard	Scratch	Harpoon	E15	
Hier	Tom	LOC	Mini Magg	H105	
Hier	Tom	LOC	Mini Magg	I145	
Hooker	Jeff	PML	Miranda	H128	
Hooker	Jeff	Aerotech	Mustang	F20	
Hooker	Jeff	PML	Matrix	I357	
John	and Stu	Aerotech	Arreaux	E30	
Kaufman	Rob	Binder	Velocilator	K350	
McCluskey	Scott	LOC	Forte	G35	
McCluskey	Scott	Scratch	Forte	J415	
Miller	Elaine	PML	Nake Blade	H150	super blue
Oasen	Rick	LOC	Lilac Time	F50	
Oason	Rick	?	?	G80	
Oason	Rick	Scratch	Hellfire	D12	
Olson	Dave	Estes	Commanche	C6	
Olson	Dave	Estes	Comanche	"D12,C6,C6"	
Olson	Dave	Aerotech	Initiator	G35	
Olson	Dave	Estes	Comanche	"C6,C6"	
Olson	David	Aerotech	Initiator	F20	
Olson	Nikki	Estes	Fat Boy	C6	
O'Sullivan	Jerry	Scratch	High 5	L1000	Red Neck Red
O'Sullivan	Jerry	Scratch	Take 5	"H200,H200,H124,H124,G80"	
O'Sullivan	Jerry	Scratch	High 5	K400	Green
O'Sullivan	Jerry	Public Enemy	Honest John	H180	First Flight of Day
Parker	Wayne	Aerotech	Mustang	F50	
Parker	Wayne	PML	Tiny Terry	G80	
Parker	Wayne	Scratch	Buzz	D12	
Parker	Wayne	Aerotech	Barracuda	G80	

Flyer		Manufacturer	Model	Motors	Result
Parker	Wayne	Scratch	?	E9	
Pratt	Brian	Estes	AIM-97A	B6	
Pratt	Brian	?	M136A2	B6	
Pratt	Doug	PML	Tomahawk	I80	
Pratt	Doug	?	?	I136	
Pratt	Valerie	?	?	C6	
Pratt	Valerie	?	?	C6	
Pratt	Valerie	?	?	C6	
Proseus	Ted	Scratch	Cherokee	K???	Aqua
Proseus	Ted	PML	Endeour	I???	white smoke load
Proseus	Ted	Scratch	Upper Air Disturbance	F???	Blue
Raine	Jonathan	LOC	Expediter	I161	
Ritz	John	LOC	Fortee	J400	
Ritz	John	LOC	Fortee	J300	red/blue
Ritz	John	Scratch	Greenie	G65	
Rozman	Tom	PML	Small Endeavour	H121	
Russell	Ben	PML	Endeovr	ground test	
Russell	Ben	PML	Endeour	J600	
Schumacher	Fred	Yo-Yo	"Overkill 4""	K400	ml
Schumacher	Fred	Yo-Yo	"Overkill 6""	M1200	Red Neck Red
Scrimgeour	Allie	Estes	Big Bertha	E25	
Scrimgeour	Allie	Estes	Biggest Big Bertha	D12	
Scrimgeour	Allie	Estes	U-Turn	C6	
Scrimgeour	Allie	Scratch	U.S.A.	C6	
Scrimgeour	Allie	Estes	Big Bertha	D24	
Scrimgeour	Allie	Estes	U-Turn	C6	
Scrimgeour	Allie	Scratch	U.S.A.	C6	
Scrimgeour	Allie	Scratch	U.S.A.	C6	
Scrimgeour	Allie	Estes	Biggest Big Bertha	E5	
Scrimgeour	Kevin	Scratch	Purple Haze	G104	
Scrimgeour	Kevin	Scratch	Purple Haze	G40	
Scrimgeour	Kevin	PML	Navy Blue	H180	
Scrimgeour	Kevin	Aerotech	Big Red	F20	
Scrimgeour	Kevin	V.B.	Big Red	E15	
Sechrist	George	LOC	Bruiser	J360	
Sechrist	George	LOC	Minnie Magg	H112	
Singer	Gary	True Modeler	Sentry	E30	
Singer	Gary	Scratch	My First Panic	J415	
Soltysik	John	Scratch	?	I284	*Cert 1*
Sorci	Ross	Estes	Ninja	D12	
Sorci	Ross	Quest	Nike K	B6	
Sorci	Ross	Estes	Mach 12	C6	
Sorci	Ross	Estes	Black Brandt	C11	
Sorci	Ross	Estes	Black Brandt	D12	
Sorci	Ross	Estes	HeliCat	C6	
Sorci	Ross	?	Falcon	C6	
Sorrentino	Joe	LOC	Rocket J. Squirel	G64	
Sorrentino	Joe	Estes	1977	C6	
Sorrentino	Joe	V.B.	Fat Something	D24	
Stafford	Dick	Scratch	Upscale Big Bertha	"I211, G80,G80"	
Stafford	Dick	NCR	Archer	G80	
Stafford	Dick	PML	Small Endeavour	H123	
Stafford	Dick	Scratch	Negative Conouflage	E9	
Stafford	Dick	NCR	Big Brute	G35	
Utley	Bob	Scratch	Primo	K450	Red Neck Red
Wallace	Fred	Scratch	Bad Boy	L800	
Weber	David	Weber Eng.	Tuber	G75	flight 139
Weber	David	LOC	Hi-Tek	I112	
Weber	David	Weber Eng.	Tuber	H100	flight 140
Welch	Dennis	Hawk Mountain	Raptor	F62	
Welch	Dennis	Estes	V2	D12	
Welch	Dennis	PML	Goose	H128	
Welch	Dennis	Scratch	Mega K-1	H242	
Wright	Darren	-	-	J100	Green Gound Test
Wright	Darren	-	-	M1200	Green Gound Test
Zupnyk	Larry	Scratch	EZ-L-Super	L1175	

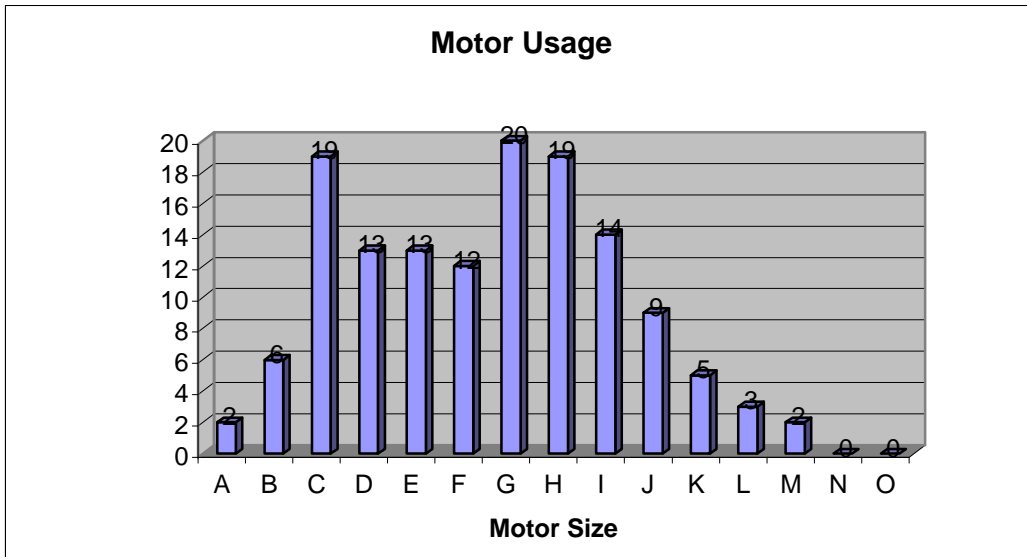


A	2	5
B	6	30
C	19	190
D	13	260
E	13	520
F	12	960
G	20	3200
H	19	6080
I	14	8960
J	9	11520
K	5	12800
L	3	15360
M	2	20480
N	0	0
O	0	0

137 TOTAL MOTORS 80365 NEWTON/SECONDS

Atlantic	0
Aerotech	11
Apogee	0
Binder	1
BSD	0
Centuri	0
Cluster R	0
Custom Rockets	0
Dynacom	0
Edmonds	1
Estes	24
Giant Leap	0
Hawk Mountain	1
High Flight Tech	1
Hobby Lab	0
Impulse Aero	0
JD Cluster	0
LOC	14
Launch Pad	0
MSH	0
NCR	4
Neubauer	0
PML	21
Pratt Hobbies	0
Public Enemy	1
Quest	1
Rocketman	0
Rocket R&D	0
Rocket Teck	0
Rogue Aero	0
Rocket Vision	0
TCB	0
Thoy	0
True Modeler	1
Scratch	39
Smokin Rockets	0
V.B.	2
Unknown	9
US Rockets	0
Weber Eng.	2
Yo-Yo Dyne	2

133 TOTAL ROCKETS



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Fred Schumachers OverKill 6



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Scott McCluskey Forte

# October 2002

## Rocket Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																											
<table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <caption>September</caption> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						1	2	3	4	5	
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13	14 <small>Columbus Day (Observed)</small>	15	16	17 <small>MDRA Meeting</small>	18	19 <small>MDRA Launch</small>																																											
20 <small>MDRA Launch</small>	21	22	23	24	25	26 <small>Whitakers Launch</small>																																											
27 <small>Daylight Savings-- set back 1 hour</small> <small>Whitakers Launch</small>	28	29	30	31 <small>Halloween</small>	<table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <caption>November</caption> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </tbody> </table>		S	M	T	W	T	F	S						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
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# November 2002

## Rocket Calendar

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24	25	26	27	28 <small>Thanksgiving</small>	29	30																																																																																				

Last Page Funny



Remember our Hero last, standing in front of the rocket? Well look at what he's doing now, "I'll press the button".....

***No one is exempt from this page, we are starting at the top and working our way to the bottom of the barrel.***