



M.D.R.A. Report

Volume 5, Number 1



Cover: 1-800-Kaboom, of Fred Schumacher rocket. Thank you Ben Russell for the photo.

Editor's Corner:

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Editor Bob Utley

I'm baaaaaaacccccckkkkkk!

Yep, working on the launch system for the club took way too much time for me to complete, not that I'm complaining, but I missed that by a mile. It's done, it works, I'm moving on to other things. I do want to thank, Gary Deaver, Dave Weber, Fred Schumacher, Fred Wallace, Neil McGilvray, Jeff Potter, Kathy Gilliland, Ben Russell, I hope I didn't miss anyone, thanks to these folks it got done.

As your all aware of there are very few motors these days, so unless you row your own your out of luck. I understand that's about to change. Aerotech is going to start delivering motors at LDRS and hopes to be back on schedule after LDRS.

I added a Funny page at the end, of the Newsletter. Everyone will be on it at some point. I want to thank Jerry O'Sullivan, Fred Schumacher and Neil McGilvray for their timely help in this issues or is that untimely.

OK I've got to do the year end report that should have come out 5 months ago so if you have any articles you want in the newsletter, please send them to me.

ESL 46:

Price, Maryland 12/9/2001

One would-be editor of a hardly ever published high power rocketry magazine I know of will reject any "launch" article if it even *briefly* discusses the weather. I find this puzzling. Last time I checked, rocket flying is dependent on weather conditions that lie within fairly narrow parameters. Thus, weather would be of great interest to the FLIERS among us, not to mention the spectators.

Wind and cold don't usually come as a surprise to folks attending Price launches in the past 2 years, but for a scant few nice days. Today was no exception.

Temperature was at least 20 degrees lower than the day prior, and winds gusted up to 25mph. It's a major pain just to prep in the wind, let alone risk your lovingly crafted creation on a flight! Be that as it may, a few die-hards braved the elements anyway.

MDRA President Dave "Ahzim" Bullis flew the funniest looking thing he calls "Bucket Mouth" on an antique Silver Streak H330 for a beautiful flight and recovery. That motor would be awesome at dusk – just a brilliant shower of intense silver sparks. I hear Lou still has a few in stock, unless they were sold out after Dave's demo. Dave's second flight was his Instant Access on an EX J250 to about 2500'. The delay didn't work and the rocket came down in a relatively flat spin for minor damages.

Glen Gardner had his scratch built F.U.D. on an I300. Glen, who is "D"?? By the way, those digital pics you shot would be welcomed by Bob Utley.

Lloyd Gold had 3 flights of his Estes Prowler on a B and 2 C's, and his Estes Exoskell on a C6. He did put up 1 hp flight with his Loc IV on an H123. Nice loud motor that was.

Louis Gonzalez had a beautifully finished Scotglas Talon 3, which flew as well as it looked on an H110. Son Ryan kept the A rack busy with flights of his Amramm on C6's. Brave or reckless, take your pick, Ryan then attempted a 3 stage flight with his Comanche going D12-C6-B6. Those things are hard enough to get back on calm days. At any rate, 2nd stage ignition failed and gravity won the race. Not deterred, Ryan then flew 3 more Aerotech kits on F's and an E. I don't remember the last time I had 7 flights in one day. Good job, Ryan.

Keith Holt likes Econojets. He has plenty of company. His Warthog flew twice on F20's and once on an F25. I think it was Ted Proseus that mentioned Econjets, especially the F20's, get their spitty like sound from metals depositing on the nozzle.

The RancOr team of Neil McGilvray and Darren Wright got together again with Neils 4" dia Amazing Grace flying on Darren's L600 sparky motor with Tiger Tail bumper grain. Boy did THAT work nice! At burnout the rocket just disappeared. It was picked up again in a ballistic recovery attitude when at the last possible moment, it tried to deploy it's main. We could hear the rip and thud from a mile away. "Amazing"ly,

much of the rocket survived the impact and is repairable. No word on whether Neil is going to re-evaluate the continued use of a particular brand of altimeter.....

Darren had another motor to burn and this time made Bob Utley the benefactor. Estimated at an L1000 or so, this 2600ns motor had a long, interestingly colored flame and ripped Primo to an altitude of 7987'. Unfortunately, the new AltAcc installed to gather data failed to do so, but Bob's twin GWIZ units worked perfectly and Primo was recovered about a mile downwind.

Jerry O'Sullivan flew his Quantum Leap sustainer on an AT I-361 redline. A good choice on this windy day as the AT reds are fairly aggressive. Weathercocking was minimal, apogee deployment at 2900' via the AltAcc was fine, as was the main at 500', although Kathy Gilliland didn't appear to approve of my choice of main chute colors.

Ted Proseus reports "I managed to fly UNR on my second experimental G70-12 (more like a 15 s delay) that worked well. I scrapped the flight of Orange Crush on an EX I250 since I couldn't the altimeter to arm properly". Better safe than sorry.

Rob Roberts flew his Loc Aura on an F62 and his EZI on an I211. He also had an F39 for his Estes Big Daddy. Fred Walls let go his PML X-Caliber on a G64.

Dave Weber managed 3 flights this day. As he puts it.."Aerotech Mustang on a US Rockets G45...apogee=47 feet +/- after a bit of pad burnoff...total distance traveled, (let's see, circumference of a circle = 2 x pi x radius) 3 loops and 30 feet downrange puts total dist traveled=167 ft. Rocket recovered in a totally flyable condition.

2. Same rocket on an Aerotech F50....lost sight of it going to help with range breakdown. George Sechrist had an eye on it but couldn't find it after a valiant effort. Thank you George, you're a real trooper (oops, an ex-trooper, hoorah!!!) and serious thanks for the help on the Skyraider. Between these 2, Dave hauled out the big dog "Skyraider". Loaded with an L850 courtesy of Fred Schumacher, Skyraider was just plain lazy getting up to it's 1800' apogee. It makes for a great effect though, as one gets the full impact of the burn. Apogee separation was fine, but the main tangled. Dave says damage was minimal.

I guess the day's highlight wasn't a rocket at all, but the fireworks show by Joe May right after dark. Brilliant stuff, especially when you're up close and personal. As a "finale", Joe had a 10" monster shell. I don't think he planned on it detonating on the ground however, but I'll say this – that was one helluva finale! WOW. Thank you Joe and please do it again!!!

Jerry O'Sullivan

The Year in Review: 2001

2001 saw an increase of 20% more flights and 50% increase of L & M flights over last year. Hard to believe when 911 is factored in.

Here are some of the numbers from last year. 721900ns was burn, that comes out to a U motor (641,000-1280,000). Most used motor was an H at 171 flights followed by a G motor, 163 flights. Again more scratch built rockets were flown at 386, Estes at 181, followed by LOC at 119.

Who had the most flights, if you ever hung around the LCO table you would know this guy Richard Hickok at 58 flights, followed by Clark Carrington with 35 flights. Maybe we should charge them more for this award, just joking guys.

Which flyer burned the most AP and black power? Well just so everyone understands it has to be in a rocket and fly, ground/static test as important as they are is not what I count, otherwise I might have won for all the bad motors I made last year. The winner for AP flew an O motor and M motor with lots of K and a couple of J's. Neil McGilvray is the flyer. A very close second is Jerry O'Sullivan with 3 M flights and lots of L's & K flights The BP winner should be obvious Richard Hickok hands down. Congratulations to all the winner your awards are in the mail.

Just think in another 6 months this year will be over so if you want to see your name on the above list you still have time. In 2002 there will be a new award the best CATO, we have a few flights in mind.

Bob Utley



example 1 of a cato ©E. Miller 2002



example 2 of a cato ©E. Miller 2002

ESL 47:

Price, Maryland 1/20/02

Here it is January and its snowing on a Saturday someone must have planned a Level 3 attempt? After a few well spent hours fixing up the sea container we all headed back home or for some the hotel.

Well it s Sunday morning and the range is clear, the sky is clear, and there's white stuff all over the ground. Hey if it s not in the sky lets fly!

Not a big turnout but a great day for flying rockets after all. Mike Ash flew his scratch Victoria on an A-8 for a nice flight and his daughter Victoria flew her Estes Victoria on a B-6 also a great flight. Mike when do we get to see that big project of yours and how many A-8 s does it take to lift it? Ivan Barnsley let us all know he came to fly launching 7 rockets from the A thru I

impulse range. Ivan s list starts with his scratch built Leftovers and Ideals on a C-6/b-6 combo for a nice flight then his Momma and the Kids with a combo of A-8/A10 s. He then moved up to D power with his scratch Flapper on a D-12. And of course what would a launch be without his scratch Whistler shrieking up on a G-54 then again on an H-128. Showing us he still had some motors to burn Ivan launched his Auction Block Special on an H-242 and his Loud as it Looks on an I-284, Great show Ivan! Not to be out done Jeanie Barnsley launched her Estes Goblin on a C-6 and her scratch Hat Trick on a G-75 both for nice flights. Aaron Blizzard demonstrated his snow flying abilities by flying his Rocket R&D Sergeant 3 times, twice on G-80 s and once on a G-80/H-124 for a great flight. Glen Gardner flew his scratch F.U.D. on an I-360.

Rob Kaufman & Dave Weber teamed up to fly a Binder Stealth on an I-370 that was nice. James Kelly launched his Estes Thunder on a C-6. Kevin Kelly showed off his cluster prowess with his Loc Viper on 4 E-9's they all lit what do ya know! Kevin also flew his Aerotech Arcas on a G-80 for a long walk oops I mean nice flight. Steve Mashburn let Ivan know he was here to fly also with 8 flights his BSD Horizon on an I-240, Launch Pad Exocett MM40 twice on D-12 s his Estes Big Bertha on a B-6, Estes Saturn V on an E-30 and again on an E-15 his Estes Mercury Redstone on a C-6 and his Loc Mini Magg on an I-205. Neil McGilvray once again showed us how it s done with his scratch Socially Un-Acceptable with a K-714 to boost it and the strangest thing happened, the chute came out and everything worked fine! Oh well I m sure he will try it again. Not to be out done the team of Jerry O Sullivan & Darren Wright launched Jerry s scratch Reprobate on an L-2000 then Jerry s scratch Sand hawk on an M-3000 really great flights!

Kevin Mitchell must have taken a blow to the head as he teamed up with Neil McGilvray to launch his scratch V2 on a M-1750. It was an awesome boost recovery was a little shaky but everything seemed to survive despite Neil s best efforts. Ted Proseus had three flights to add to the day his scratch UNR on an F-40 his scratch Javelin on an I-90 and his scratch Cherokee on a J-800.

Yours truly finally got rid of the butterflies and got a chance to go after my level 3 flight with my 6 inch scratch Overkill on an M-1315 and yes I made sure everyone had the chance to touch it! And once again despite Neil's best efforts all went well I GOT IT! Thanks once again to all who helped! Bob Utley (who I must say brow beat me into writing this report and if you all will please send him an e-mail telling him how bad it was I will be off the hook) took his scratch Primo to the flight line with a K-400 and much to everyone's surprise figured out where to put the igniter and had a nice flight. Darren Wright launched his PML Mini-BBX on an H-100 for a hot flight. Ray Wright sent his True Modeler Nike Smoke into the skies 3 times twice on a D-12 and once on an E-30 Ray also sent his Mini BBX skyward twice once on an H-55 and again on an H-80.

All in all it turned out to be another great ESL for the books even if Saturday was lost to the snow. Once again a Hale & Hearty Thanks to Tommy Higgs for the use of his property and his culinary prowess at the Road Kill Café.

Counting down to the next launch

Fred Schumacher

ESL #48:

Price Maryland 2/9-10/02

With the winter upon the cold weather flying faithful at Higgs farm, this weekend had all the looks of another great launch. The temperatures were in the lower 40's, much like the average and IQ of most of our flyers. But fly we must, or at least try.

Mike Ash had one flight with his Victoria on an I-161. God save the Queen. Ivan Barnsley got off a mere 8 flights on Saturday Ivan flew everything in the lower and mid power range on this day from D-12's to G-80's. Rob Basinet had three flights utilizing G-80, H-165 and K-450 power. Pete Bennett had his FU-2 back in service. One would have to think that this is the second of Pete's FU series of rockets. Pete had a spectacular flight on this finely finished rocket on a K-700.

Clark Carrington had 4 flights using F, G and H power. Then there was Dustin "I bet if I put a really big motor in a really small rocket it will be cool" Crabtree. Wrong, it will be really cool. Dustin launched his all Hawk Mountain component 4" diameter rocket with a M-3700. The expected extreme altitude and the expected extreme speed were unfortunately compromised by the unexpected extreme high-speed dis-assembly as the vehicle approached mach. The envelope that MDRA has been tearing ever so slowly became more tattered with this attempt. Dustin will be back with a new and improved version of his rocket and will "Do It Again!"

Jeff Davenport flew his Orange thing on an I-285. Zack DeBey took the spotlight from dad, Mike and flew 2 rockets in the C range. John Fenwick also joined in with 2 C flights. Ivan Galysh flew his EZI Hybrid on an I-130. Glen Gardner wanted to see his rocket disappear with a K-1100 in his minimum diameter Hawk Mountain scratch built rocket. Glen temporarily got his wish, but did retrieve the rocket. Kathy Gilliland warmed up on a couple of D flights before scattering the business end of her Sun Seeker rocket all over the field on a nasty blue K-800. Kathy being our Color Coordination Inspector should know that when you mix a yellow rocket with a blue motor the resulting color is green. Louis Gonzales stepped up to the pads 7 times flying everything between E's to I's. Greg Gruntler looked skyward three times on G, H and I power.

Steve Hackett flew four rockets on E, G and I power. Eric Hall was doing more Ozark Aerospace testing with his 4" Amraam on a J-300. Remember the name Ozark Aerospace and you can say you saw it being developed at MDRA launches. Scott Hayes had AP to burn as he flew eight rockets on Saturday. Scott was flying between E and J range power. Richard Hickok was slowing down and only got off six rockets in the C to E range. Keith Holt moved up a notch and certified Level 2. Congratulations Keith! The certification was on his stretched Tethys with a rare J-350. Kevin Kelly and son James flew four rockets in the D to I range. Mike Kitto got two birds off the pads with I-power on the working end of his rocket.

Sean McAndrew flew his venerable LOC Magnum on a K-500 motor for a nice

flight. Neil McGilvray flew the second in a series of Ozark Aerospace test flights in the stretched version of Ranc"O"r with an O-9000ish 115mm motor. This flight, like all the Ozark flights are done as a joint project with Darren Wright and Eric Hall, who are Ozark Aerospace. The weight at lift off was 140 pounds, give or take, and the rocket achieved an altitude of 9,300 feet. These tests are being performed mainly because they are O motors, but also because this motor will be one of two along with a P-10,000ish motor slated for the power plant in the Liberty Project scheduled for fall of 2002. Stay tuned.

Tobin Miklas flew his V-2 on an I-284. Jerry O'Sullivan participated in the BETA Testing of another Ozark creation, the M-2300. This was flown in the sustainer stage of Jerry's two stage Terrier Sand Hawk. Can you guess what the rocket was? As usual, excuse my yawn, Jerry's flight and recovery was perfect. If he could only see into the future, hehe! Ted Proceus was continuing with his testing on three flights in the H and K range. Rod Roberts flew his Vulcanite rocket on an H-180 and H-220 for a couple of nice flights. Joe and son Michael combined for five flights in the C to G range. Karl Schuler was burning up the black powder with his six flights in the C and D range.

Fred Schumacher flew his "Over What?" on a K-420 for a respectable flight. Don Shope flew his Lil'-Nuke on a G-80. Tom Thompson busted off a couple of J motors in his Smiley and Butt Naked. I guess the Butt Naked caused the Smiley. Bob Utley had his test rocket, Primo, primed and ready for battle. Everything with Bob is a battle. Primo flew perfectly on an L-1500, no thanks to Bob. Fred Walls put up his Arrow on a F-22. Dave Weber was slumming with his Graduator on a G-40. Last but not least, Larry Zupnyk flew his Purple Phantom on an I-200.

Sunday the 10th was a less attended day due to some higher winds and fouler weather. However we came to launch rockets and launch we must. Rob Bazinet launched his Little John on a J-280. James Cox had two flights on D and G power. Bill and son Colin Davidson stayed on the black powder side of the street and launched two rockets in the C and D range. Kathy Gilliland recovered from her Sun Seeker loss the day

before and launched two rockets in the F and G range in her Star Blue.

Erik Hall cranked it up a notch with his 4" Amraam powered by a J-800. Scott Hayes grunted off the pad with his "Overweight Magnum" on a K-550. Some flights are better left on the ground, as they will find their way there eventually. Adam Higgs launched his Strong Arm on a G-39 for a nice flight. Kevin Kelly and son James got in four more flights in the A to I range to round out their weekend.

Neil McGilvray flew Socially Un-Acceptable on a L-1500 for a nice high flight and perfect recovery, if I do say so myself. Jerry O' Sullivan was back at it with the Ozark Boys. It kind of sounds like the beginning of cruel joke. "There was this Irishman and these two Hillbillies..... so they are at the bar.....and the hippo says to the emu.....and the Irishman says no, that's your shoe!!!!!! Anyhow Jerry launched his Reprobate rocket with a L-2200 for a neck cracking flight. Very Nice. Joe Sorrentino had three flights in the F and G range.

Despite a slow Sunday we still managed almost 41,000 Newton Seconds on 155 flights. As usual a debt of gratitude goes out to Tommy Higgs for letting launch on his field. A great time was had by all that attended. Remember to send you pictures and videos to Bob Utley for posting to the web site and for the compilation videos. It has been a while since we have received any video, so if you got it don't Bogart it - pass it right over to Bob.

Until next time, fly high and recover low.

Neil McGilvray

ESL #49:

Price, Maryland 3/9-10/02

Hopes where about the only thing that was held high on this weekend as the weather totally let us down. Be that as it may, the faithful of the MDRA where still able to burn some AP and loft some rockets skyward on this windy and low cloudy weekend.

Dave Bathras took some time out from fighting fires and lit one under his NCR Archer on a J-570. Pete Bennett launched his Scratch Purple Unit, I hope that was rocket he put a motor in, on a K-700. Bob Coleman took to the skies on C-6 power. Ivan Galysch was at it again with his EZI on a Hybrid I-140. These rockets require a lot of prep but the end result is worth it. Kathy Gilliland stayed close to the ground with her Python on a D-12. Now I know this was a rocket she put on the flight card and not a description of Bob. Louis Gonzales got in four flights with E and G power.

Mitch Guess launched his Graduator on a F-62 and his Endeavor on a K-800 for a very nice flight. This was Mitch's Level 2 certification flight, congratulations Mitch! Now go see Kenny and spend even more money on bigger motors, level 3 is not far behind. Eric Hall, the electronics half of Ozark Aerospace, flew two rockets on J-500 and K-700 power. Rob Kaufman decided a cold and windy day was the right time to attempt his level 2. Rob flew his Stealth rocket on a J-360 for a neck cracking flight and a level 2 certification for his trouble. Congratulations Rob, now join Mitch at Kenny's truck. Kevin and James Kelly got in three flights with their Silver Comet on a D-12, Manhole Blaster on a I-435 and a rocket James named "Like I am Your Son" on a G-80. Mike Kitto flew his Eclipse on a J-420. Bob Lussier set his Big Brute north on a G-60.

Steve Mashburn had K-600 power pushing his Bruiser skyward. Ted Proceus flew his test rocket Cherokee on a K-575. Jerry O'Sullivan went chasing down his Reprobate after a successful K-110 flight. The wind was not kind to any of the high fliers on this day. But if you wait for perfect conditions you will never fly. Rob Roberts got in two flights with his Lil'Nuke on a G-104 and his Un-EZI on I285. Karl and Scott Schuler launched 5 times with C, D and E power. Fred Schumacher lit up the sky with his Overkill4 on a K-400 for a simply average flight.

It was nice of the Scrimgeour's to have us at their private launch as Allie and Kevin launched 20 rockets between the two of them. Allie launched 16 rockets for the days record and Kevin managed a measly four rockets in the E, F and H range. Nikki Taylor launched her V-2 on a D-12. Tom

Thompson needed to stretch his legs so he launched his Silvonic on a K-550. Brenda Wallace got into the action launching her Swift on a C-6. There is an M motor with your name on it Brenda. Dave Weber provided the test vehicle for yet another Ozark flight on a L-1400. The venerable old Sky Raider never knew the ground could get that far away. Dave young flew his Patriot on a K-550 for a great smokey loud flight. Unfortunately there was some damage in the high wind recovery. But nothing a little Duct Tape couldn't fix. With the help of man's next to best friend and Bob Utley's L-1500, Dave was determined to finish off the rocket. Needless to say he succeeded.

All in all it was a fun launch with our fair share of big motors and high expectations for the future launches to held at Higgs Farm. Thank you again Tommy for your hospitality. Without good people like Tommy Higgs none of this is possible. Remember that when you at any launch. The Land Owners are the cornerstone of our hobby. Thank them when you meet them. Until the next launch, sand them, paint them, fly them and do it again

Neil McGilvray

ESL #50:

Price, Maryland 4/20-21/02

How quickly our big field-flying season roars to an end. Finally the weather starts warming up and then it time for Tommy Higgs to go back to work and plant his fields. It is also time for the MDRA Rocketeers to get in one more weekend of flying on our field of dreams. Saturday was perfect, warm light wind and light clouds way up in the sky. This weekend proved to have the makings of a "really cool" event.

Markus Allen flew on D-12 power. One of the many Level 3 attempts of the day was Doc Bevans and his 5-foot tall 6" diameter rocket. Doc flew this attempt on a M-1550 red motor. The lift off was perfect, however the rocket developed a sub-nominal arc and striped the main chute at its scheduled apogee deployment. Back to the drawing board for Doc. The good news is that it was an M flight. The bad news is that

was a really cool M flight. Thomas Brus flew three times on D motors. Peter Cox flew on C power.

The team of Dave Young and JR spent the day working their Way Over Budget, a 6" Ultimate Endeavor, for its flight on a L-850. The rocket did not disappoint as the flight was perfect and the motor was expensive. Dave and JR flew their Amraam on a J-415. The team followed up that perfect flight with something a little higher on the pucker scale. Dave and JR decided that it would be a good idea to put a K-185 in a 3" Amraam. Good idea if you don't mind missing most of the post burn out portion of the flight and recovering the rocket with a shovel. It was a really cool flight. Vaughn Dickerson flew scratch built rocket on an I-205. Ivan Galysh was pushing the Hybrid limits with his Black Brant on an I-190. Glen Gardner got two birds in the air with I and J power plants.

Kathy Gilliland tore at that tattered envelope some this weekend with her first women on the East Coast flight of her Star 3 rocket with a N-3300 as the smile enhancer. Kathy's gleaming green rocket tore of the pad as the 3-second N motor did its job and then some. The flight was in excess of 8,000 feet and recovery was perfect. Way to go Kathy. You go girl! John Gramlick flew four times on G motors. Augie Gray took to the pads twice. Once to the B cell with his warm up I-242 motor and then to the away cell for yet another M flight. Augie flew his Kodiak rocket on a M-1419 for a classic HPR ride to the clouds. Lots of fire and a long column of white smoke followed by a picture perfect recovery. Eric Hall was slumming with a F-22 in his Ozark I rocket. Larry Harris took time out from his young rocketeers to launch four rockets of his own on F and G motors. Larry has the patience of a Saint as he is always bringing a group of budding young rocketeers with him when he attends a launch. Richard Hickok fly 7 times covering the alphabet from A to E. Tom Hier flew twice. Once to certify Level 2 NAR on a J-300 and then to celebrate his certification on a J-230. Congratulations Tom!

Keith Holt meant it when he named his rocket "Bite Me" It sure took a bite out of the sky on a K-450. I think it is still going up. Rob Kaufman likes the big air. He likes it so much he left his Jaguar up in it somewhere. Rob flew on an I-360 and the rocket is yet to

be found. It might be in orbit. Charles Klinger flew on C-6 power. Vince and Savannah Leonardi flew three rockets on C and F motors. Tom McDonald finally got his level 2 certification on an I-360. Congratulations Tom, patience is a virtue. Tom also flew his Quasar on a H-153. Steve Mahaffey joined the "Harris Kids" flying C power. Steve Mashburn flew three rockets two from the B cell and one from the away cell. Steve flew his Thunder Beast on a ripping L-1500 Blue Thunder ride to the sky. Greg H.K. Meyer flew twice with C's. Ben Miller flew three times with his Cluster Rocket on an I-300 two and two G-64s and his Head Banger twice on an H-200 and I-400. Cory H.K. Miller was up on C power. Mathew Myers launched five times burning up black powder B and Cs.

Neil McGilvray launched his 6" rocket Cracked Actor on a M-4500, which was suppose to be a M-2400. So what if it burned faster than expected. Fortunately the flight remained in the "cool" range although it did border on "really cool" when part of the nozzle shattered at motor shut down. Speaking of "really cool", Jerry "Boom Boom" O'Sullivan had one of those days you come to a launch to see. Jerry was flying his Carbon Fiber Reprobate rocket testing another Ozark Aerospace motor, L-6000, when the motor decided it was time to phone home. The only problem was it misdialed and called 1-800-Ka-Boom instead. A very cool CATO ensued and some frantic fire fighting heroics at the pad followed the spectacular fireworks display. That is what rocketry is all about; success and failure walk hand in hand with a fine line separating them.

Kevin Quire lit up the sky with a rocking L-1500 flight on his Violent Thunder. Fast and noisy, everything a rocket should be. Adam Redden flew twice with B and C's. Lynn Reamy joined the High Powered Women of MDRA Rocketry with her successful Level 3 flight. Lynn's rocket was a 6" diameter and 10 foot tall rocket powered by a M-1550 Red Line. An arrow straight flight was followed by a perfect apogee deployment of the main chute for a satisfying decent into the soft wheat field. Congratulations Lynn! Way to go.

John Ritz launched four times with his 6-Pack, I don't think he was talking about the typical rocketeers stomach. John also

flew his Readynator twice and his LOC IV. Dave Russell took some time off from his work as a graduate student at Johns Hopkins University at the Hubble Space Telescope to fly 3 times. How small this hobby must look after having first hand experience at the Hubble. But Guess what? Dave keeps coming back. I think he losses stuff and has to retrieve it. Joe and Michael Ruzzi flew six times on B to H Power. Austin H.K. Schmier burned two C-12s for some nice flights.

Fred Schumacher went where no sane would go, and we all followed and helped. You got to love it. Fred's plan was to build a 17-foot tall, 12-inch in diameter rocket and launch it on a N-6000 then at first movement light two L-1100's and then air start two M-1000's. That sounds about right, who wouldn't do that? What could possibly go wrong? Well nothing I or anyone else would tell Fred. This was actually a well thought out and well built project. It was a joint venture with those nutty Ozark guys. Fred spent the better part of the day prepping this beast and when launch time came all eyes were on the new 30-foot tower that Dave Bullis constructed especially for this christening launch. After the usual pre-launch fanfare the countdown began

One..ignition...smoke...fire...WOO OWHHH!!!!. Half way up the tower the unthinkable happened the main N motor CATO'ed and blew the rocket to pieces. Not bad for the start as there were two L's and 2 M's still in the rocket scheduled for ignition. Fred did do his homework. The L's did light as scheduled and while the rocket was busy tearing itself to shred the L's were pressurizing. You ever see a wild dog on a leash that wanted to go somewhere, anywhere? That was what was left of Fred's booster section at the end of 100 feet of webbing. The thrusting action of the booster flung the M's from their motor mounts and they never lit. The main N motor was drive 6" through the galvanized blast plate and the rocket was all but destroyed.

The bad news is that things didn't work out as planned. That guy Murphy or is it O'Sullivan sometimes sticks his fingers in the pie. The good news is no one was even remotely close to being hurt, except for Fred's wallet and pride. The main lessoned to be learned goes back to the old saying" It

is better to try and fail than not to try at all". Excellent try Fred! Do It Again!!!!!!

Bill Schworer launched his Sudden Rush on a J-180. Kevin Scrimgear looked skyward nine times covering the middle alphabet on E to I flights. Ross Sorci had the C motors cooking as he launched six times. Jim Strauss Launched three rockets on G, H and I power. Kyle H. K. flew twice with B and C motors. Fred Wallace static burned an I-325 in anticipation of things to come. Bill Rossi, Mr. Smokin Rockets, had heads turned to the away cell as he launched his beautifully finished Honest John on a M-8500. Can you say bang!! off the pad. A fantastic flight was followed by a great recovery. Nice job Bill!

Dave Weber has probably flown more rockets than any 10 people combined and this was his day to stroll down Level Three Lane. Dave built an up-scale of his Tuber rocket. It is called Tuber because it has no fins; the rocket is stabilized with 6" "tubes" surrounding the airframe. The rocket flew on everyone's favorite M motor, the Aerotech 1939. The green and orange rocket lifted off on a huge tail of smoke and fire, boosting the 75-pound vehicle to over 7,500 feet. Quite a spectacular way to begin your Level 3 career. Now, the question is are we going to 130 M flights on this like the smaller Tuber? Congratulations Dave. Mickey Wilks was busy burning up black powder on six B and C flights.

Co-Founder of Ozark Aerospace, Darren Wright decided it was time to fly a certified motor and what better occasion than his Level 3 attempt. If you are going to go certified you might as well make the most of it. And Darren did. He flew his up-scale Monster Maniac on yet another M-1550 Red Line motor. Who says there is a big motor drought? The big up-scale blasted off the pad for another perfect M flight. The rocket Gods were looking down with favor as Darren completed the task at hand with a great recovery and a Level 3 Certification to boot. Congratulations Darren! Larry Zupnyk was not seeing red as he flew his Black Widow on a K-1100 for a great flight.

Sunday showed how quick the weather in Maryland can turn. Luckily most of the big flights went on Saturday, although there was more High Powered fun to be had. Arron Blizzard launched two rockets on H and I power. Doug Cameron certified

Level 1 with his Cirrus Dart on a H-123. Welcome aboard Doug and congratulations! Chris and Jim Cox flew three times on C and G power.

Dustin Crabtree threw caution to the wind and the clouds as he launched his 140-pound Army hawk on a N-4000 motor. The big green rocket took off like a wild man for a spectacular flight. Unfortunately the main did not fully deploy and there was some damage to the big bird on landing. I think we will see it again and again if I know Dustin. Steve Hackett launched his Phantom 4000 on a G-38. Richard Hickok snuck in 3 more flights before the weather turned from bad to worse. Kevin Kelly took the chance and went for his Level two-flight attempt. Kevin didn't roll snake eyes as he successfully flew and recovered his J-275 powered Endeavor for a perfect flight. Congratulation Kevin! John Ritz got his LOC Forte' up on a J380. Quite a bold jester, indeed. Bill Rossi flew his Controlled Chaos with a digital camera on a J-300. The flight worked but the camera shut off at lift off.

Dave Russell got in under the weather wire with a D-12 flight. Fred Wallace demonstrated what a burnt out bottom grain on a hot blue motor can do. It can reshape your motor casing and rocket all at once as Fred found out on the flight of his rocket Short Stuff. Although the fins had motor took a beating Fred still recovered the rocket as if it was just another day at the office. Dave Weber flew his Expeditor, coming down off his M flight high. Ray Wright wrapped up the days activities with two flights of Mini-BBX on G and H power.

This was the first full year of MDRA Incorporation and I would like to congratulate the MDRA Board of Directors for all their hard work. To Dave Bullis for his vision that has brought to this place at this time. To Tommy Higgs who allows us to launch from His Place at this time. And to all the people that help out over the course of the year. Every little bit helps. Don't shy away from helping and always let the other guys do it. This is a volunteer organization and many hands make the going light. Have a safe and fun summer; we will see the next time we get together to burn some AP.

Neil McGilvray

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Aerotech, Pro38 is on the truck, come and get it. Now you can pay online for any of PH great rocket items.

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NEXT ISSUES:

- Student Payload Project
- Launch report of June.
- Neil and Bob's rocket trip
- Events for July & August.
- Another last page funny.

Keep The Pointy End
up and the Fiery
End down.

D. Bullis

<http://www.mdtripoli.org>

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Kathy Gilliland's N3300 ©E. Miller 2002

Flight Log December 9, 2001 ESL #47

Flyer		Manufacturer	Model	Motors	Result
Gardner	Glen	Scratch	F.U.D.	I300	
Gold	Lloyd	Estes	Exoskell	C6	
Gold	Lloyd	LOC	LOC IV	H123	
Gold	Lloyd	Estes	Prowler	C6	
Gold	Lloyd	Estes	Prowler	C6	
Gold	Mallory	Estes	Prowler	B4	
Gonzalez	Louis	Scratch	Talon 3	H110	
Gonzalez	Ryan	LOC	Norrad	F20	
Gonzalez	Ryan	Estes	Comanche	"D12,C6,B6"	
Gonzalez	Ryan	Estes	Amraam	C6	
Gonzalez	Ryan	Estes	Amraam	C6	
Gonzalez	Ryan	Aerotech	Lil Nuke	E30	
Gonzalez	Ryan	Aerotech	Mustang	F20	
Gonzalez	Ryan	Aerotech	Cheetah 2	F20	
Holt	Keith	Aerotech	Wart Hog	F25	
Holt	Keith	Aerotech	Wart Hog	F20	
Holt	Keith	Aerotech	Wart Hog	F20	
McGilvray/Wright	Neil/Darren	Scratch	Amazing Grace	L600	
O'Sullivan	Jerry	PML	Quantium Leap	I361	
Proseus	Ted	Scratch	UNR	G70	
Roberts	Rob	LOC	EZ-I	I211	
Roberts	Rob	LOC	Aura	F62	
Roberts	Rob	Estes	Big Daddy	F39	
Utley/Wright	Bob/Darren	Scratch	Primo	K1000	
Walls	Fred	PML	X-Calibur	G64	
Weber	David	Scratch	Skyraider	L850	
Weber	David	Aerotech	Mustang	G40	
Weber	David	Aerotech	Mustang	G45	

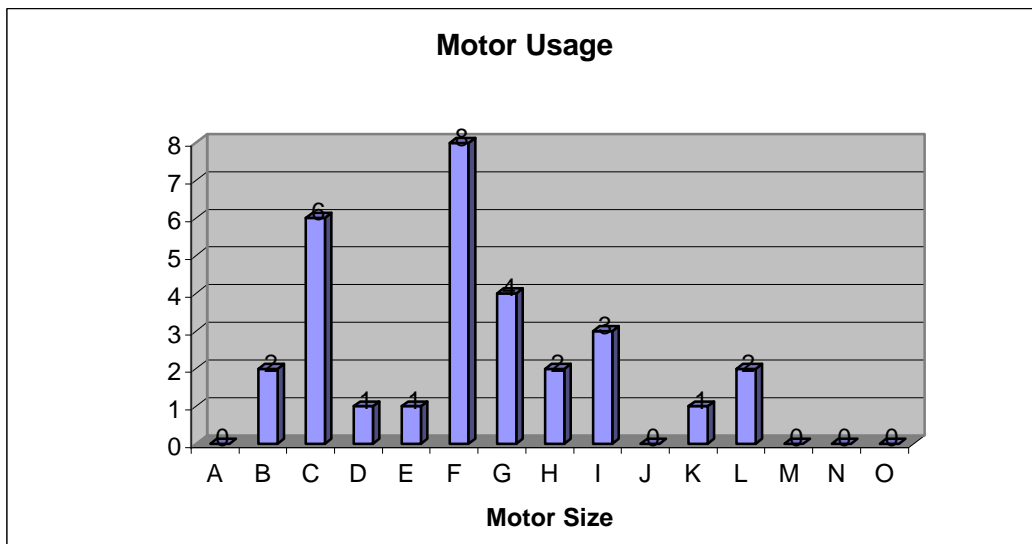
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B	2	10
C	6	60
D	1	20
E	1	40
F	8	640
G	4	640
H	2	640
I	3	1920
J	0	0
K	1	2560
L	2	10240
M	0	0
N	0	0
O	0	0

30 TOTAL MOTORS 16770 NEWTON/SECONDS

Atlantic	0
Aerotech	8
Apogee	0
Binder	0
BSD	0
Centuri	0
Cluster R	0
Custom Rockets	0
Dynacom	0
Edmonds	0
Estes	8
Giant Leap	0
Hawk Mountain	0
High Flight Tech	0
Hobby Lab	0
Impulse Aero	0
JD Cluster	0
LOC	4
Launch Pad	0
MSH	0
NCR	0
Neubauer	0
PML	2
Pratt Hobbies	0
Public Enemy	0
Quest	0
Rocketman	0
Rocket R&D	0
Rocket Teck	0
Rogue Aero	0
Rocket Vision	0
TCB	0
Thoy	0
True Modeler	0
Scratch	6
Smokin Rockets	0
V.B.	0
Unknown	0
US Rockets	0
Weber Eng.	0

28 Total Flights

28 TOTAL ROCKETS



Flight Log January 20, 2002 ESL #47

Flyer		Manufacturer	Model	Motors	Result
Ash	Mike	Scratch	Victoria	A8	
Ash	Victoria	Estes	Victoria	B6	
Barnsley	Ivan	Scratch	Leftovers N Ideals	C6/B6	
Barnsley	Ivan	Scratch	Momma and the Brats	A8/A10/A	
Barnsley	Ivan	Scratch	Flappe	D12	
Barnsley	Ivan	Scratch	Whistler	G54	
Barnsley	Ivan	Scratch	Loud-as-it-looks	I284	
Barnsley	Ivan	Scratch	Auction Block Special	H242	
Barnsley	Ivan	Scratch	Whistler	H128	
Barnsley	Jeanie	Scratch	Hat Trick	G75	
Barnsley	Jeanie	Estes	Goblin	C6	
Blizzard	Aaron	Rocket R&D	Sergeant	G80	
Blizzard	Aaron	Rocket R&D	Sergeant	G80/H142	
Blizzard	Aaron	Rocket R&D	Sergeant	G80	
Gardner	Glen	Scratch	F.U.D.	I360	
Kaufman/Weber	Rob/Dave	Binder	Stealth	I370	
Kelly	James	Estes	Thunder	C6	
Kelly	Kevin	LOC	Viper IV	E9	
Kelly	Kevin	Aerotech	Arcas	G80	
Mashburn	Steve	BSD	Horizon	I240	
Mashburn	Steve	Launch Pad	Exocett MM40	D12	
Mashburn	Steve	Estes	Big Bertha	B6	
Mashburn	Steve	Estes	Saturn V	E30	
Mashburn	Steve	Launch Pad	Exocett MM40	D12	
Mashburn	Steve	LOC	Mini Magg	I205	
Mashburn	Steve	Estes	Mercury Redston	C6	
Mashburn	Steve	Estes	Saturn V	E15	
McGilvray	Neil	Scratch	Socially Un-Acceptable	K714	
Mitchell/McGilvray	Kevin/Neil	Scratch	V-2	M1750	
O'Sullivan/Wright	Jerry/Darren	Scratch	Reprobate	L2000	
O'Sullivan/Wright	Jerry/Darren	Scratch	Sandhawk	M3000	
Proseus	Ted	Scratch	UNR	F40	
Proseus	Ted	Scratch	Cherokec	J800	
Proseus	Ted	Scratch	Javelin	I90	
Schumacher	Fred	Scratch	OverKill	M1315	*Cert 3* got it
Utley	Bob	Scratch	Primo	K400	
Wright	Darren	PML	Mini-BBX	H100	
Wright	Ray	True Modeler	Nike Smoke	D12	
Wright	Ray	True Modeler	???	E30	
Wright	Ray	PML	Mini-BBX	H55	
Wright	Ray	PML	Mini BBX	H80	
Wright	Ray	True Modeler	Nike Smoke	D12	

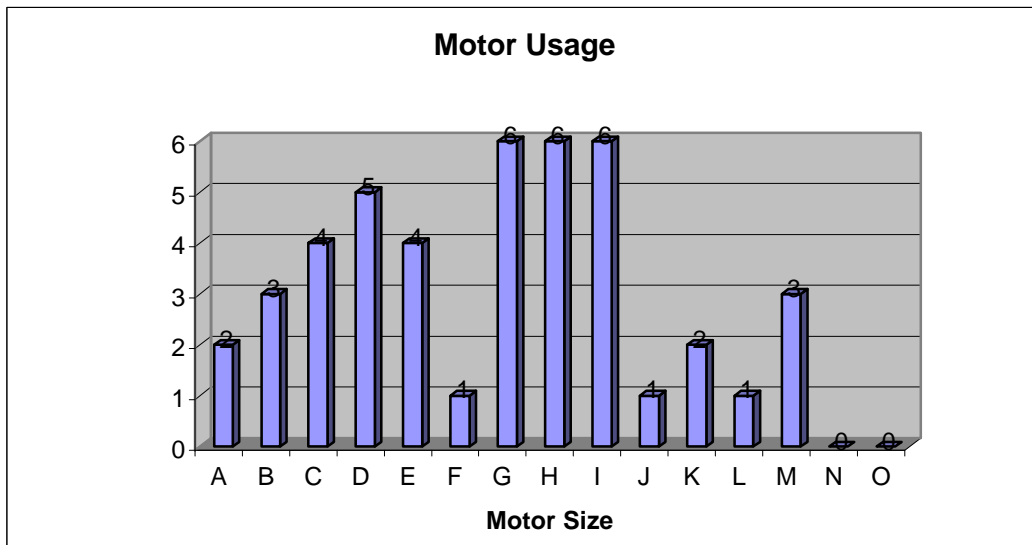
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B	3	15
C	4	40
D	5	100
E	4	160
F	1	80
G	6	960
H	6	1920
I	6	3840
J	1	1280
K	2	5120
L	1	5120
M	3	30720
N	0	0
O	0	0

44 TOTAL MOTORS 49360 NEWTON/SECONDS

Atlantic	0
Aerotech	1
Apogee	0
Binder	1
BSD	1
Centuri	0
Cluster R	0
Custom Rockets	0
Dynacom	0
Edmonds	0
Estes	7
Giant Leap	0
Hawk Mountain	0
High Flight Tech	0
Hobby Lab	0
Impulse Aero	0
JD Cluster	0
LOC	2
Launch Pad	2
MSH	0
NCR	0
Neubauer	0
PML	3
Pratt Hobbies	0
Public Enemy	0
Quest	0
Rocketman	0
Rocket R&D	3
Rocket Teck	0
Rogue Aero	0
Rocket Vision	0
TCB	0
Thoy	0
True Modeler	3
Scratch	19
Smokin Rockets	0
V.B.	0
Unknown	0
US Rockets	0
Weber Eng.	0

42 Total Flights

42 TOTAL ROCKETS



Flight Log February 9 & 10, 2002 ESL #48

Flyer		Manufacturer	Model	Motors	Result
Ash	Michael	Scratch	Victoria	I 161	
Barnsley	Ivan	Scratch	Quark	G80	
Barnsley	Ivan	Estes	Comanche	D12	
Barnsley	Ivan	Scratch	Whistler	H134	
Barnsley	Ivan	Scratch	Money for Nothing	D12/C6/B6	
Barnsley	Jeanie	Scratch	Hat Trick	G54	
Barnsley	Jeanie	Scratch	"Huey, Duey, Louey"	A8/B6/C6	
Barnsley	Jeanie	Estes	Eeyore Cpheonix	F37	
Barnsley	Jeanie	Scratch	Super Stilt Fin	D12	
Bazinet	Rob	BSD	Sprint	H165	
Bazinet	Rob	Scratch	YB38	G80	
Bazinet	Rob	Scratch	Little Miss Madison	K450	
Bennett	Pete	Scratch	FU2	K700	
Carrington	Clark	Scratch	Lost Cause III	F10	
Carrington	Clark	PML	Small Endeavor	H180	
Carrington	Clark	Scratch	Bull Pup	H242	
Carrington	Clark	PML	Cirrus Dart	G64	
Crabtree	Dustin	Scratch	Oops	M3700	
Davenport	Jeff	Scratch	Orange Thing	I285	
DeBey	Zack	Scratch	Explorer Jr.	C6	
DeBey	Zak	Estes	Zacks Rocket	C6	
Fenwick	John	Estes	Hyper X	C6	
Fenwick	John	Estes	Hyper X	C6	
Galysh	Ivan	LOC	EZI Hybrid	I130	
Gardner	Glen	Scratch		K1100	
Gilliand	Kathy	MSH	V-2	D12	
Gilliand	Kathy	Scratch	Sun Seeker	K800	Bang
Gilliand	Kathy	Estes	Aqua Impulse	D12	
Gonzales	Louis	Hawk Mountain	Raptor	G38	
Gonzales	Louis	Hawk Mountain	Raptor	G64	
Gonzales	Louis	Scratch	Talon 3	I240	
Gonzales	Ryan	PML	Amraam	G38	
Gonzales	Ryan	Hawk Mountain	Raptor	E20	
Gonzales	Ryan	Estes	Aim-Ram	D12	
Gonzales	Ryan	Estes	Amraam	E9	
Gruntler	Greg	PML	Sudden Rush	I435	
Gruntler	Greg	LOC	Onyx	G64	
Gruntler	Greg	PML	Quazar	H73	
Hackett	Steven	Scratch	PAC III	G80	
Hackett	Steven	Scratch	Nike	I211	
Hackett	Steven	Scratch	Blue Streak	G80/E15	
Hackett	Steven	Scratch	Patriot	G40	
Hall	Erik	PML	"Amraam 4"""	J300	
Hayes	Scott	Scratch	G55 Special	E30	
Hayes	Scott	Scratch	G55 Special	G55	
Hayes	Scott	LOC	EZI 65	J90	
Hayes	Scott	Scratch	G55 Special	E15	
Hayes	Scott	Aerotech	Long Shot	H100	
Hayes	Scott	Scratch	G55 Special	F62	
Hayes	Scott	Scratch	Bumbiling Bee	J415	
Hayes	Scott	Scratch	G55 Special	G55	
Hickok	Richard	Scratch	X-15	C6	
Hickok	Richard	Scratch	Blue Meanie	D12	
Hickok	Richard	Scratch	Bongo	E11	
Hickok	Richard	Scratch	Hyperion	D12	
Hickok	Richard	Scratch	SHX-1	C5	
Hickok	Richard	Scratch	Shx-2	D12	
Holt	Keith	PML	Stretched Tethys	J350	*Cert 2*
Kelly	James	Scratch	Overhill	F20	
Kelly	Kevin	PML	Manhole Blaster	I285	
Kelly	James	Estes	Silver Comet	D12	
Kelly/Schumacher	Kevin/Fred	Scratch	Overkill Too	F20	
Kitto	Mike	PML	Quasar	I205	
Kitto	Mike	PML	Quasar	I210	
McAndrew	Sean	LOC	Magnum	K500	
McGilvray/Wright	Neil/Darren	Scratch	"Ranc""O""r"	O9000	
Miklas	Tobin	LOC	V-2	I284	
O'Sullivan	Jerry	Scratch	Sand Hawk	M3200	

Flight Log February 9 & 10, 2002 ESL #48

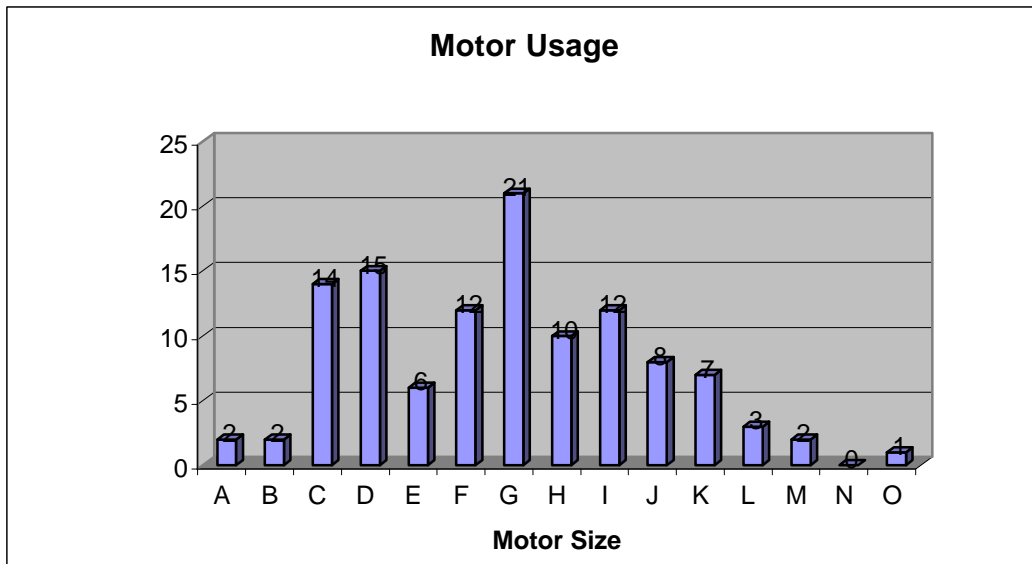
Flyer		Manufacturer	Model	Motors	Result
Proseus	Ted	Scratch	Yellow	H80	
Proseus	Ted	Scratch	Yellow	H???	
Proseus	Ted	Scratch	Cherokee	K400	
Roberts	Rob	LOC	Vulcanite	H220	
Roberts	Rob	LOC	Vulcanite	H180	
Ruzzi	Joe	Scratch	Sand Hawk	G38	
Ruzzi	Joe	Estes	Optimal	F23	
Ruzzi	Joe	Scratch	Excel	G80	
Ruzzi	Michael	Quest	Nike Smoke	C6	
Ruzzi	Michael	Estes	SM3 Seahawk	D12	
Schuler	Karl	Estes	Black Brant	D12	
Schuler	Karl	Estes	Mercury	C6	
Schuler	Karl	Scratch	Grenade	C6	
Schuler	Karl	Estes	Phoenix	D12	
Schuler	Karl	NCR	SCR-69	C6	
Schuler	Karl	Estes	Marte Mark II	C6	
Schumacher	Fred	Scratch	Over What	K420	
Shope	Don	Scratch	Lil Nuke	G80	
Thompson	Tom	Scratch	Smiley	J275	
Thompson	Tom	BSD	Butt Naked	J135	
Utley	Bob	Scratch	Primo	L1500	
Walls	Fred	Aerotech	Arrow	F22	
Weber	David	LOC	Graduator	G40	
Zupnyk	Larry	Scratch	Purple Phantom	I200	
February-02					
Bazinet	Rob	BSD	Little John	J280	
Cox	James	Estes	Big Daddy	D15	
Cox	James	Aerotech	Arcas	G35	
Davidson	Colin/Bill			D12	
Davidson	Colin/Bill		Sicence Project	C6/C6	
Gilliand	Kathy	Scratch	Star Blue	G80	
Gilliand	Kathy	Scratch	Star Blue	F50	
Hall	Erik	PML	Amraam	J800	
Hayes	Scott	LOC	Overweight Magnum	K550	
Higgs	Adam	Aerotech	Strong Arm	G39	
Kelly	James	Estes	USA	A3	
Kelly	James	Scratch	Overhill	F20	
Kelly	James	Scratch	Overhill	F50	
Kelly	Kevin	PML	Manhole Blaster	I425	
McGilvray	Neil	Scratch	Socially Un-Acceptable	L1500	
O'Sullivan/Wright	Jerry/Darren	Scratch	Reprobate	L2200	
Sarrcutino	Joe	True Modeler	Nike Smoke	F24	
Sorrentino	Joe	LOC	Rocket J. Squirrel	G33	
Sorrentino	Joe	LOC	Aura	F40	

A	2	5
B	2	10
C	14	140
D	15	300
E	6	240
F	12	960
G	21	3360
H	10	3200
I	12	7680
J	8	10240
K	7	17920
L	3	15360
M	2	20480
N	0	0
O	1	40960

115 TOTAL MOTORS 120855 NEWTON/SECONDS

Atlantic	0		
Aerotech	4		
Apogee	0		
Binder	0		
BSD	3		
Centuri	0		
Cluster R	0		
Custom Rockets	0		
Dynacom	0		
Edmonds	0		
Estes	17		
Giant Leap	0		
Hawk Mountain	3		
High Flight Tech	0		
Hobby Lab	0		
Impulse Aero	0		
JD Cluster	0		
LOC	11		
Launch Pad	0	92	9-Feb
MSH	1	19	10-Feb
NCR	1	111	Total Flights
Neubauer	0		
PML	11		
Pratt Hobbies	0		
Public Enemy	0		
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	58		
Smokin Rockets	0		
V.B.	0		
Unknown	0		
US Rockets	0		
Weber Eng.	0		

111 TOTAL ROCKETS



Flight Log March 9 & 10, 2002 ESL #49

Flyer		Manufacturer	Model	Motors	Result
Bathras	Dave	NCR	Archer	J570	
Bennett	Pete	Scratch	Purple Unit	K700	
Coleman	Bob	Estes	Goliath	C6	
Galysh	Ivan	Scratch	EZI Hybrid	I140	
Gilliand	Kathy	Estes	Python	D12	
Gonzales	Louis	Launch Pad	Seawolf	E9	
Gonzales	Louis	PML	Small Endeavour	G38	
Gonzales	Louis	Launch Pad	PAC-3	E9	
Gonzales	Ryan	Aerotech	Cheetah 2	G35	
Guess	Mitch	PML	Endeavour	J800	
Guess	Mitch	LOC	Graduator	F62	
Hall	Erik	Scratch	Cannon Express	K700	
Hall	Erik	PML	"Amraam 4""	J500	
Kaufman	Rob	Binder	Stealth	J360	*Cert2* got it
Kelly	James	Scratch	Like I am your son	G80	
Kelly	James	Estes	Silver Comet	D12	
Kelly	Kevin	LOC	Manhole Blaster	I435	
Kitto	Mike	PML	Eclipse	J420	
Lussier	Bob	NCR	Big Brute	G60	
Mashburn	Steve	LOC	Bruiser	K600	
Proseus	Ted	Scratch	Cherokee	K575	
O'Sullivan	Jerry	Scratch	Reprobate	L1100	
Roberts	Rob	LOC	Lil Nuke	G104	
Roberts	Rob	Scratch	UnEZI	I285	
Schuler	Karl	Estes	Phoenix	E15	
Schuler	Karl	Scratch	Rascal	C6/C6	
Schuler	Karl	Estes	Mercury	C6	
Schuler	Scott	Scratch	Finster Blast	D12	
Schuler	Scott	Estes	Shuttle	C6	
Schumacher	Fred	Scratch	"Overkill 4""	K400	
Scrimgeour	Allie	Estes	Navy Fighter	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Biggest Big Bertha	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Allie	Estes	Navy Fighter	B6	
Scrimgeour	Allie	Estes	Big Bertha	C6	
Scrimgeour	Allie	Estes	Fat Boy	C6	
Scrimgeour	Kevin	V.B.	Red Head	E15	
Scrimgeour	Kevin	V.B.	Color of Purple	F20	
Scrimgeour	Kevin	PML	Up-n-Atom	H97	
Scrimgeour	Kevin	LOC	Big Red	F20	
Taylor	Nikki	Estes	V-2	D12	
Thompson	Tom	LOC	Silvonic	K550	
Wallace	Brenda	Estes	Swift	C6	
Weber/Wright	David/Darren	Cluster R	Skyraider	L1400	
Young/Utley	Dave/Bob	PML	Duck Tape Patriot	L1500	
Young	Dave	PML	Patriot	K550	

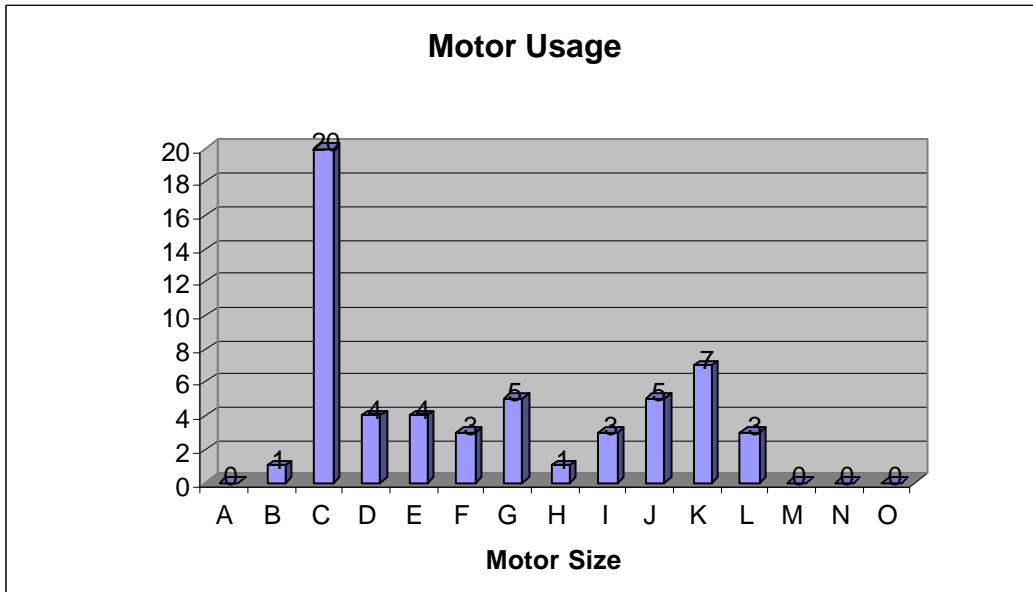
A	0	0
B	1	5
C	20	200
D	4	80
E	4	160
F	3	240
G	5	800
H	1	320
I	3	1920
J	5	6400
K	7	17920
L	3	15360
M	0	0
N	0	0
O	0	0

56 TOTAL MOTORS 43405 NEWTON/SECONDS

Atlantic	0
Aerotech	1
Apogee	0
Binder	1
BSD	0
Centuri	0
Cluster R	1
Custom Rockets	0
Dynacom	0
Edmonds	0
Estes	24
Giant Leap	0
Hawk Mountain	0
High Flight Tech	0
Hobby Lab	0
Impulse Aero	0
JD Cluster	0
LOC	6
Launch Pad	2
MSH	0
NCR	2
Neubauer	0
PML	7
Pratt Hobbies	0
Public Enemy	0
Quest	0
Rocketman	0
Rocket R&D	0
Rocket Teck	0
Rogue Aero	0
Rocket Vision	0
TCB	0
Thoy	0
True Modeler	0
Scratch	10
Smokin Rockets	0
V.B.	2
Unknown	0
US Rockets	0
Weber Eng.	0

56 Total Flights

56 TOTAL ROCKETS



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This is how it looks around Performance Hobbies truck every launch, BUSY.....

Flight Log April 20 & 21, 2002 ESL #50

Flyer		Manufacturer	Model	Motors	Result
Allen	Markus	Estes	Mach 12	C6	
Bevon	Dock	Scratch	Excalaber	M1550	*Cert 3* no go
Brus	Thomas	Estes	Mach 12	C6	
Brus	Thomas	Estes	Mach 12	C5	
Brus	Thomas	Estes	Mach 12	C5	
Cox	Peter	Estes	Amraam	C6	
Dave & JR		PML	Way over Budget	L850	
Dickerson	Vaugh	Scratch	3 incher	I205	
Galysh	Ivan	PML	Black Brant	J190	
Gardner	Glen	PML	Ariel	I285	
Gardner	Glen	Scratch	F.U.D. Dart	J300	
Gilliand	Kathy	Scratch	Star 3	N3300	
Gramick	John	LOC	Onyx	F50	
Gramick	John	NCR	Eliminator	G38	
Gramick	John	NCR	Eliminator	G40	
Gramick	John	NCR	Big Brute	G40	
Gray	Augie	PML	Patriot	H242	
Gray	Augie	Scratch	Kodiak	M1419	
Hall	Erik	Aerotech	Ozark I	F22	
Harris	Larry	Aerotech	Arreaux	G38	
Harris	Larry	Aerotech	Mustang	G40	
Harris	Larry	Aerotech	Red Barron	G35	
Harris	Larry	Aerotech	Initiator	G38	
Hickok	Richard	Scratch	Fred's Frog	B4	
Hickok	Richard	Scratch	SHX-1	C6	
Hickok	Richard	Scratch	Sea Skua	E15	
Hickok	Richard	Edmonds	Dee-Cee Thunder	D12	
Hickok	Richard	Edmonds	EE-Cee	A3	
Hickok	Richard	Scratch	Fred's Frog	B4	
Hickok	Richard	Scratch	Alarm	D12	
Hier	Tom	PML	Amraam 4	J300	
Hier	Tom	PML	Amraam 4	J230	
Holt	Keith	Scratch	Bite Me	K450	
JR & Dave		PML	Aamram	J415	
Kaufman	Rob	Binder	Jaguar	I360	
Klingler	Charles	Estes	Mach 12	C6	
Leonardi	Savannah	Estes	Groove & Proove	C6	
Leonardi	Vince	Aerotech	Initiator	F20	
Leonardi	Vince	Aerotech	Mustang	F20	
MacDonald	Tom	PML	Eclipse	I360	
MacDonald	Tom	PML	Quasar	H153	
Mahaffey	Stephen	Estes	Mach 12	B6	
Mashburn	Steve	PML	Lil Lunar Express	I205	
Mashburn	Steve	LOC	Caliber	G35	
Mashburn	Steve	Scratch	Thunder Beast	L1500	
Meyer	Greg	Estes	Mach 12	C6	
Meyer	Greg	Estes	Mach 12	B4	
Miller	Ben	Scratch	none	"I400, G65,G65"	
Miller	Ben	Scratch	Head Banger II	H200	
Miller	Ben	Scratch	Head Banger	I400	
Miller	Cory	Estes	Mach 12		B6
Myers	Mathew	Estes	Mach 12	C6	
Myers	Mathew	Estes	Astrocam	C6	
Myers	Mathew	Scratch	Stinger	C6	
Myers	Mathew	Estes	Mach 12	C6	
Myers	Mathew	Estes	Astrocam	C6	
O'Sullivan	Jerry	Scratch	Reprobate	L6000	1-800-KaBoom!!!
Quire	Kevin	Scratch	Violent Thunder	L1500	
Reddan	Adam	Estes	Code Red	C6	
Reddan	Adam	Estes	Code Red	B6	
Reamy	Lynn	Scratch	something	M1550	*Cert 3* got it
Ritz	John	Scratch	6-Pack	"I400, G65,G65"	
Ritz	John	Scratch	Readynator	H360	
Ritz	John	LOC	Loc IV	H250	
Ritz	John	Scratch	Readynator	H190	
Russell	Dave	PML	Small Endeavour	H112	
Russell	Dave	Scratch	Death from Above	D12	
Russell	Dave	Scratch	Amarama	D12	

Flight Log April 20 & 21, 2002 ESL #50

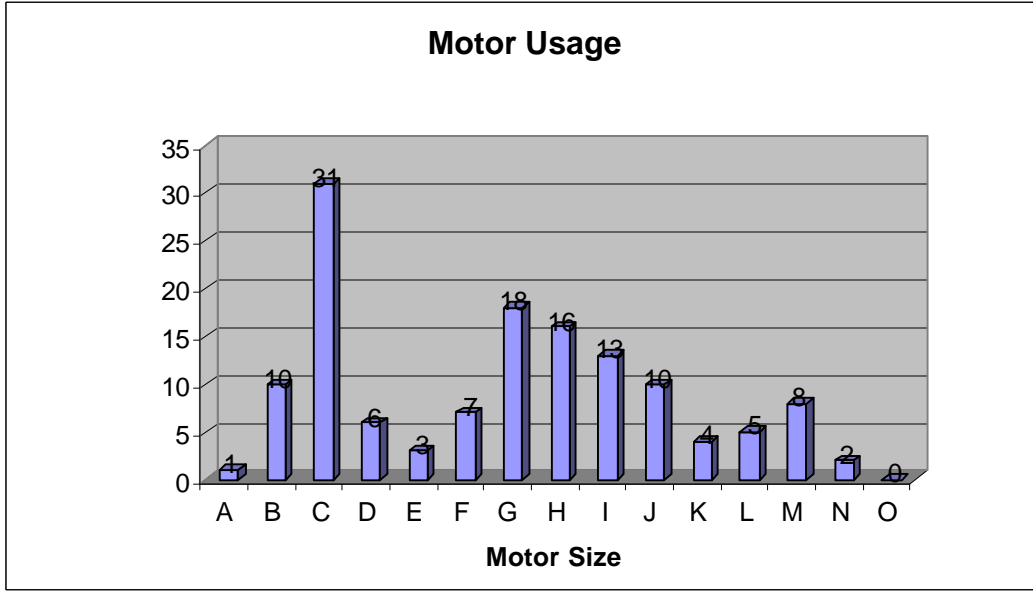
Flyer		Manufacturer	Model	Motors	Result
Ruzzi	Joe	Scratch	Excel	H153	
Ruzzi	Joe	Scratch	Black Brant III	F23	
Ruzzi	Joe	Scratch	Optima	F20	
Ruzzi	Joe & Michael	Estes	Honest John	F23	
Ruzzi	Michael	Estes	Helicat	C6	
Ruzzi	Michael	Estes	ARV Condor	B4	
Schmier	Austin	Estes	Goliath	C6	
Schmier	Austin	Estes	Mach 12	C6	
Schumacher	Fred	Scratch	Overkill 12		
			"N6000,L1100,M100,L1100,M1000"		1-800-KaBoom!!!
Schworer	Bill	PML	Sudden Rush	J180	
Scrimgear	Kevin	Scratch	Tube Wars	H153	
Scrimgear	Kevin	PML	Blue Strike	H153	
Scrimgear	Kevin	Aerotech	Fire Work	G80	
Scrimgear	Kevin	Aerotech	Fire Work	E30	
Scrimgear	Kevin	Scratch	Gold Finger	G35	
Scrimgear	Kevin	PML	Blue Strike	I205	
Scrimgear	Kevin	Scratch	Pscho-Dellie	H165	
Scrimgear	Kevin	Scratch	Pshyo-Delli	G35	
Scrimgear	Kevin	Scratch	Gold Finger	I205	
Sorci	Ross	Estes	Mach 12	B6	
Sorci	Ross	Estes	Mach 12	C6	
Sorci	Ross	PML	1/4 scale Amram	G35	
Sorci	Ross	Estes	Mach 12	C6	
Sorci	Ross	Estes	Helicat	C6	
Sorci	Ross	Estes	Helicat	C6	
Strauss	Jim	LOC	Amagram for LOC	I205	
Strauss	Jim	LOC	Pink Thing	H112	
Strauss	Jim	Scratch	Green Weenie	G80	
Vernon	Kyle	Estes	Mach 12	C6	
Vernon	Kyle	Estes	Mach 12	B6	
Wallace	Fred	Scratch	Static Burn	I325	
Weber	David	Weber Eng.	Super Tuber	M1939	*Cert 3* got it
Wilks	Mickey	Estes	Mach 12	C6	
Wilks	Mickey	Estes	Mach 12	C6	
Wilks	Mickey	Estes	Helicat	C6	
Wilks	Mickey	Estes	Helicat	C6	
Wilks	Mickey	Estes	Mach 12	B2	
Wilks	Mickey	Estes	Helicat	C6	
Wright	Darren	Scratch	Monster Maniac	M1550	*Cert 3* got it
Young	Dave	PML	Amram	K185	
Zyupnyk	Larry	Scratch	Black Widow	K1100	
21-Apr-02					
Blizzard	Aaron	Rocket R&D	Sargent Mod	H124	
Blizzard	Aaron	Rocket R&D	Sargent Mod	I170	
Cameron	Douglas	Scratch	Cirrus Dart	H123	
Cox	Chris	Estes	Gemini	C6	
Cox	Chris	Scratch	UFO	C6	
Cox	Jim	PML	X-Caliber	G80	
Hackett	Steven	NCR	Phanton 4000	G38	
Hickok	Richard	Scratch	GBU-28 Bunker Buster	E15	
Hickok	Richard	Scratch	Blue Meanie	D12	
Hickok	Richard	Scratch	Lacrosse	C5	
Kelly	Kevin	PML	Endeavour	J275	*Cert 2* got it
McGilvray	Neil	Scratch	Cracked Actor	M2500	
None	Given	Scratch	Point Blank	J350	
Ritz	John	Scratch	Fortee	J380	
Rossi	Bill	Smokin Rockets	Honest John	M8500	
Rossi	Bill	Scratch	Controlled Chaos	J300	
Russell	Dave	Scratch	Big Grey Thing	D12	
Wallace	Fred	Scratch	Short-Stuff	K850	1-800-KaBoom!!!
Weber	David	LOC	Expediter	H180	
Wright	Ray	PML	Mini-BBX	G80	
Wright	Ray	PML	Mini-BBX	H124	

A	1	2.5
B	10	50
C	31	310
D	6	120
E	3	120
F	7	560
G	18	2880
H	16	5120
I	13	8320
J	10	12800
K	4	10240
L	5	25600
M	8	81920
N	2	40960
O	0	0

134 TOTAL MOTORS 189002.5 NEWTON/SECONDS

Atlantic	0		
Aerotech	9		
Apogee	0		
Binder	1		
BSD	0		
Centuri	0		
Cluster R	0		
Custom Rockets	0		
Dynacom	0		
Edmonds	2		
Estes	36		
Giant Leap	0		
Hawk Mountain	0		
High Flight Tech	0		
Hobby Lab	0		
Impulse Aero	0		
JD Cluster	0		
LOC	6		
Launch Pad	0	109	Flights April 20
MSH	0	21	Flights April 21
NCR	4	130	Total Flights
Neubauer	0		
PML	20		
Pratt Hobbies	0		
Public Enemy	0		
Quest	0		
Rocketman	0		
Rocket R&D	2		
Rocket Teck	0		
Rogue Aero	0		
Rocket Vision	0		
TCB	0		
Thoy	0		
True Modeler	0		
Scratch	48		
Smokin Rockets	1		
V.B.	0		
Unknown	0		
US Rockets	0		
Weber Eng.	1		

130 TOTAL ROCKETS



Lynn Reamy L3 ©E. Miller 2002



Darren Wrights L3, ©E. Miller 2002



Dave Weber L3, ©J. Weber 2002

June 2002

Rocket Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																				
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<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>																																																																																				
<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i> <small>Flag Day</small>	<i>15</i>																																																																																				
<i>16</i> <small>Central Sod Farm Launch 9:00-5:00 Father's Day</small>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i> <small>MDRA Club Meet- ing 7:00pm</small>	<i>21</i>	<i>22</i> <small>Whitaker Launch</small>																																																																																				
<i>23</i> <small>Whitaker Launch</small>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>																																																																																				
<i>30</i>	<table border="1" style="display: inline-table; margin-right: 20px;"> <caption style="text-align: center;">May</caption> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table> <table border="1" style="display: inline-table;"> <caption style="text-align: center;">July</caption> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </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	31		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	31				
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Last Page Funny

Rocket Boy

In the summer of 1958, I built my first rocket from things I found from around the house. This book tells the trials and tribulations I had in building this rocket, dealing with my parents, my neighbors, the FAA and BATF.

Reserve your copy of this book now, priced to go at \$249.99. includes the complete plans of the rocket with full color pictures. This 7 page hardbound book will not last long, so order now, all books will be signed by the author.

Please call 1-800-KaBoom or write to Dave Bullis (*Bob Utley*)



"Dave Bullis's first Level 3 attempt, age 10. Before he realized that you have to pass Level 1 and 2 first and most importantly that you don't fly with the rocket" (*Neil McGilvray*)

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