



SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT OCTOBER 9, 2022

1:00PM TO 5:00PM NAR SECTION #624

Launch Conditions: Clear skies, slight to moderate winds, temperature: mid 70s

Total Number of Launches: 22 **Rockets Recovered:** 20

Total Number of 100% Fully Successful Flights (excluding simple fin breaks on landing, etc.): 15

Success Rate: 68%

Number of Individuals Who Launched Their Rockets: 7 **Number of Family/Friends/Observers:** 1

Teams and Competitions: 1 NARTREK Bronze (parachute duration, 2 attempts)

Types and Number of Motors: 56 total

A: 3 B: 13 C: 6 D: 1 E: 1 F: 1 G: 0 H: 0 I: 0 Higher: 0
1 launch of 4-C motor cluster

Ground Fires: 0 **Medical Incidents:** 0 **Damage to vehicles/facilities:** 0

Donations and drink/food sale, sale of merchandise:

straight out donations: \$22.00
t-shirts: 0 @\$20 = \$0
mugs: 0 at \$10 = \$0
stickers: 4 @\$1.00 = \$1.0
food and drinks: 4@\$1.00 = \$4.00
Total: \$ 27.00

Rocket Topics and Issues:

1. Wow. It was a rough day at Cape Hisey. Two rockets were lost (one was a Patriot with an altimeter into high weeds and one was a four engine Quest Fourplay that drifted out of range), multiple shroud lines tangled, separation of nose cone from airframe, two rockets under-powered, and one rocket where the Estes B6-4 delay charge fired early. One without an ejection charge. Hope we can do better next time.
2. Gary worked on narrowing in on how to be successful at the NARTREK Bronze level parachute duration contest. Hope he is successful in the November launch!
3. This is a request for everyone to remind me (Rick) not to rush getting rockets on the pad at the end of the day. After a beautiful flight of the Snarky on a F21-6W, the rocket augured into the ground and was destroyed. Evaluation of the motor indicated there was no ejection charge present. The white cap that

usually holds the charge on top of the rocket was missing and the charge had fallen out of the rocket prior to launch. Boy, do I feel stupid! I plan on scavenging the parts to rebuild it. I will be watching Tim Van Milligan's videos on repairing, fins, body tubes, motor mounts, nosecones.....

- 4. Oliver launched a PML Tiny Pterodactyl on an E23 for a great flight with electronic 100' parachute deployment using a Jolly Logic chute release. Great job!

Next meeting: Tuesday November 1st, meet at Lebanon Library 7PM

Next Launch: Sunday, November 6th, Hisey Park



Rick's Snarky



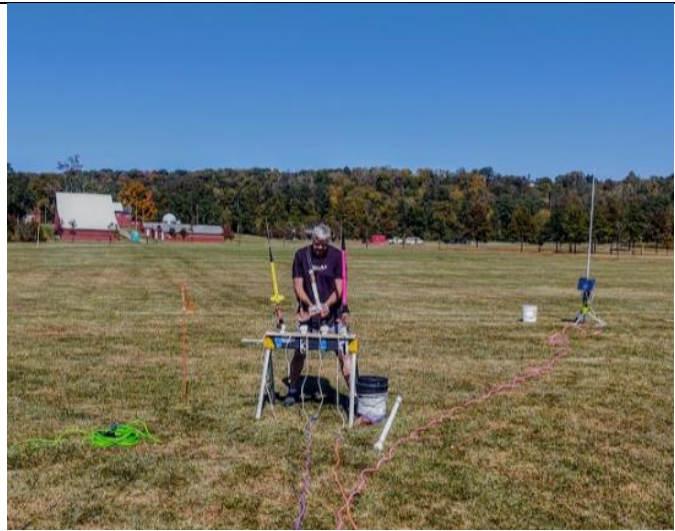
Snarky after engine ejection charge fail



What is the max angle for launching?



Jon prepping his rocket



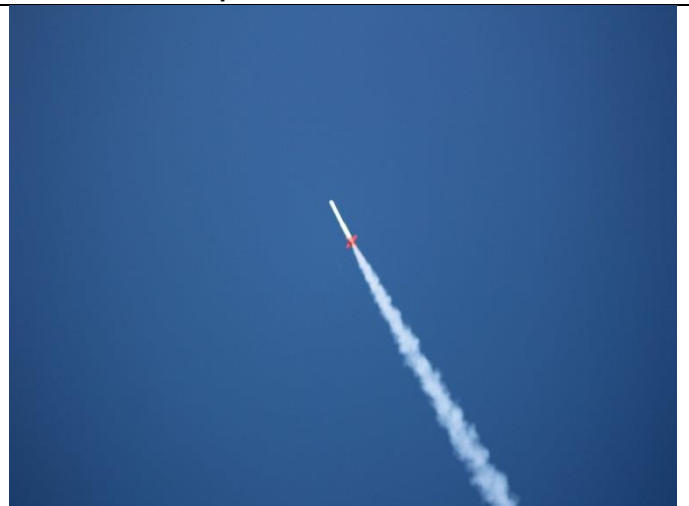
Robb, master of rocketry!



Oops! Missed that one.....



Scratch built V2 flying great.



Up, up, and away!



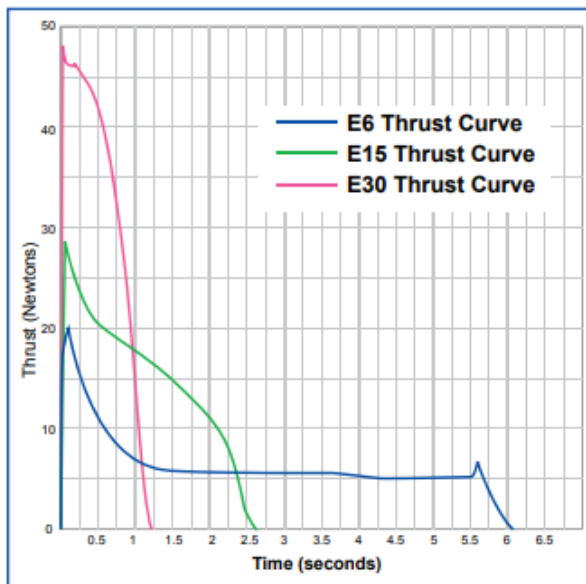
What would Launch Day be without a lawn dart?



Bobby's Crossfire perfect flight

Some added fun info....

Classification	Impulse Range	Impulse Limit	Category	
Model Rocket	1/8A	0.3125	Micro	
	1/4A	0.625		
	1/2A	1.25		
	A	2.5	Low Power	
	B	5		
	C	10		
	D	20		
	High Power	E	40	Mid Power
		F	80	
G		160		
H		320	Level 1	
I		640		
High Power	J	1280	Level 2	
	K	2560		
	L	5120		
	M	10240	Level 3	
	N	20480		
	O	40960		



Which would use for the highest flight?

Which would you use for the heaviest rocket?

Parting words.....“Sapientia ducet ad astra” – Wisdom/Knowledge leads to the stars