



SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT JUNE 14, 2022

7:00PM TO 9:30PM NAR SECTION #624

Launch Conditions: Clear skies, little or no wind, temperature: 90'S

Total Number of Launches: 13 **Rockets Recovered:** 12

Total Number of 100% Fully Successful Flights (excluding simple fin breaks on landing, etc.): 9

Success Rate: 69%

Number of Individuals Who Launched Their Rockets: 7 **Number of Family/Friends/Observers:** 2

Teams and Competitions: 4. NARTREK Bronze (streamer duration, parachute duration, \geq "D" motor), and NAR Cadet Mercury level certifications

Types and Number of Motors: 56 total

A: 0 B: 4 C: 6 D: 2 E: 1 F: 2 G: 0 H: 0 I: 0 Higher: 0

One three-stage rocket used C11-0 going to C6-0 then C6-7.

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

Donations and drink/food sale, sale of merchandise:

straight out donations: \$7.00

t-shirts: 0

mugs: 0 at \$9 = \$0

stickers: 0 @ \$0.25 = \$0.0

food and drinks: 3 @ \$0.75 = \$2.50

Total: \$ 9.50

Rocket Topics and Issues:

1. This was make-up session as the weather was poor for the regularly scheduled Sunday launch. We had a good turnout given the temperatures were in the 90s and the launch started at 7PM on a weekday.
2. Multiple individuals tried for NARTREK Bronze and NAR Cadet certifications. Three of four launches were successful and certification paperwork signed.
3. One certification attempt, Rick's Mustang using a F20 motor resulted in the rocket being lost on what we are now calling Black Hole Hill. This hill east of the launch pad has permanently captured multiple rockets never to be see again. The Mustang had a jolly Logic chute release device on board, so it was doubly sad to lose the rocket. Mustang had a jolly Logic chute release device on board, so it was doubly sad to lose the rocket. The launch rod was too short (3') for this mid-power rocket. A six-foot rod should have been

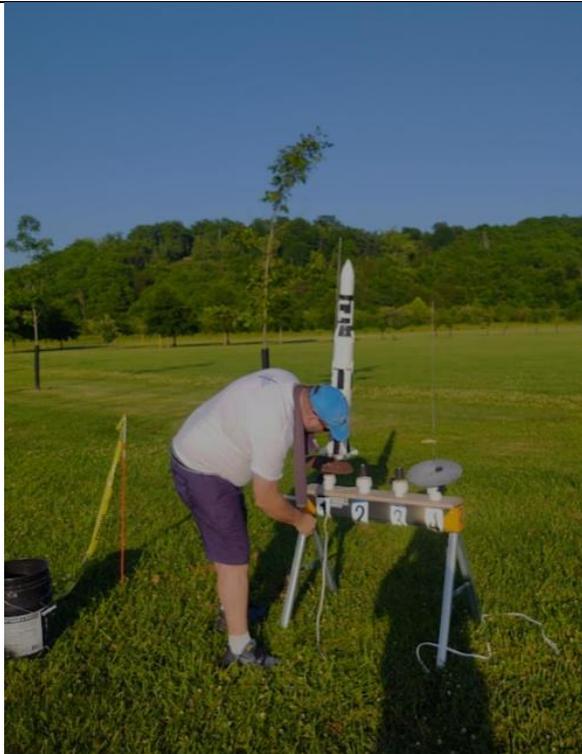
used. Rick will also go back into Rocksim to determine if more nose weight should have been installed to change the center of gravity more forward.

4. **Failure modes:** nosecone separated (not attached), chute did not inflate, rocket lost due to unstable flight arcing into woods due to launch rod too short resulting in fins not having enough time to stabilize rocket.

Next meeting: Tuesday July 5th, meet at Lebanon Library.

Next Launch: Sunday, July 10th, Hisey Park

Next Rocket and Artemis Build: Tuesdays at Lebanon Library, 7PM



Jeremy prepping Saturn 1B for a beautiful flight



Estes Rookie on a D12-3



Rick's Mustang heading for BlackHole Hill



Rookie on a D12-3



Saturn 1B Liftoff on a F15-4

Parting words.....*"Sapientia ducet ad astra"* – Wisdom/Knowledge leads to the stars