



SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT SEPTEMBER 10, 2023

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

Launch Conditions: Partly cloudy, low 70s , wind 7MPH

Total Number of Launches: 34 **Rockets Recovered:** 33 **Lost:** 1 **Found Rocket (not launched):** 0

Total Number of 100% Fully Successful Flights (excluding simple fin breaks on landing, etc.): 28

Success Rate: 82%

Number of Individuals Who Launched Their Rockets: 8 **Number of Family/Friends/Observers: ??**

Teams and Competitions: 0 **Scouts/HomeSchool/4-H:** 0

Types and Number of Motors: 20 total

A: 2 B: 9 C: 10 D: 9 E: 3 F: 2 G: 0 H: 0 I: 0 Higher: 0

One two-stage rocket D12 to a C6-3

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

Donations and drink/food sale, sale of merchandise:

straight out donations: \$0 t-shirts: 0 at \$20 = \$0

mugs: 0 at \$10 = \$0 stickers: 0 @\$0.25 = \$0.0

food and drinks: 0 at \$.75 = \$0

Total: \$ 0.00

Rocket Topics and Issues:

1. It was a great day for a launch with temperatures in the low 70's, light winds and partly cloudy.
- 2.
- 3.
- 4.

Next meeting: Tuesday October 3 , meet at Lebanon Library 6:30PM

Next Launch: Sunday, September 23, Hisey Park (special launch)



Rocketeers Dani Price and Tim Morley with scale Phoenix Missile



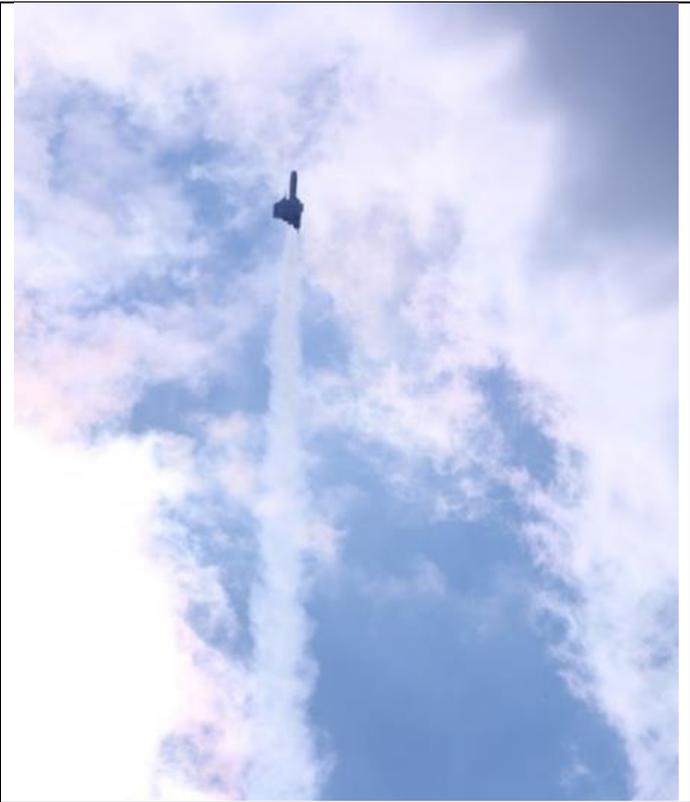
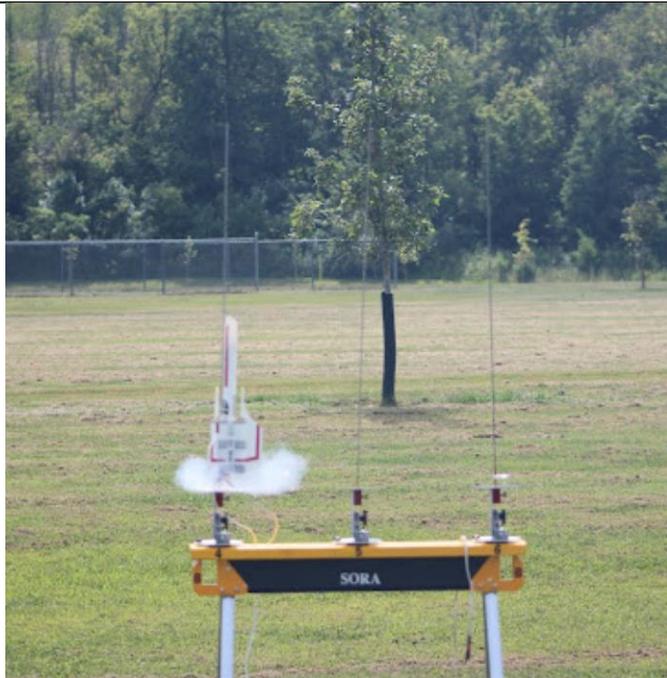
Hold the launch for traffic!

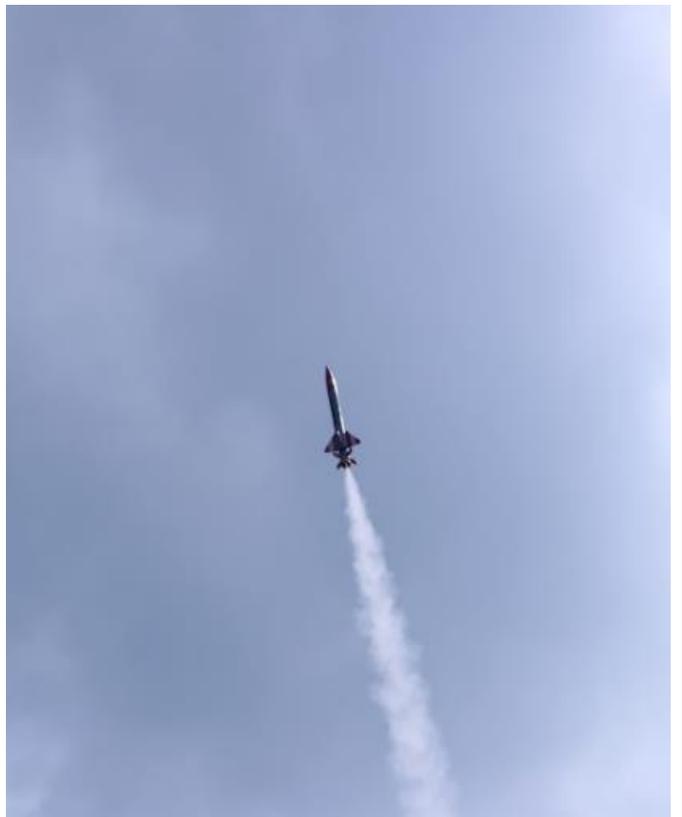


Discussing the finer points of rocketry.



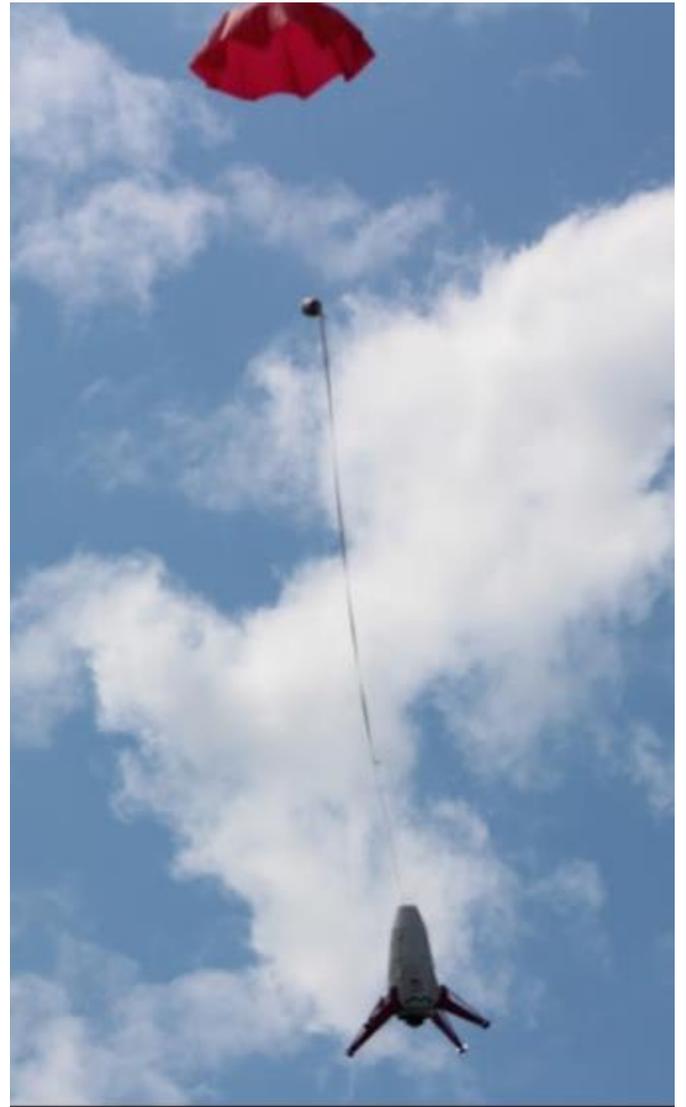
Checking on the Phoenix.







Mars Landers on a C6-3



Scissor wing transporter in flight



Closest to the pad winner?

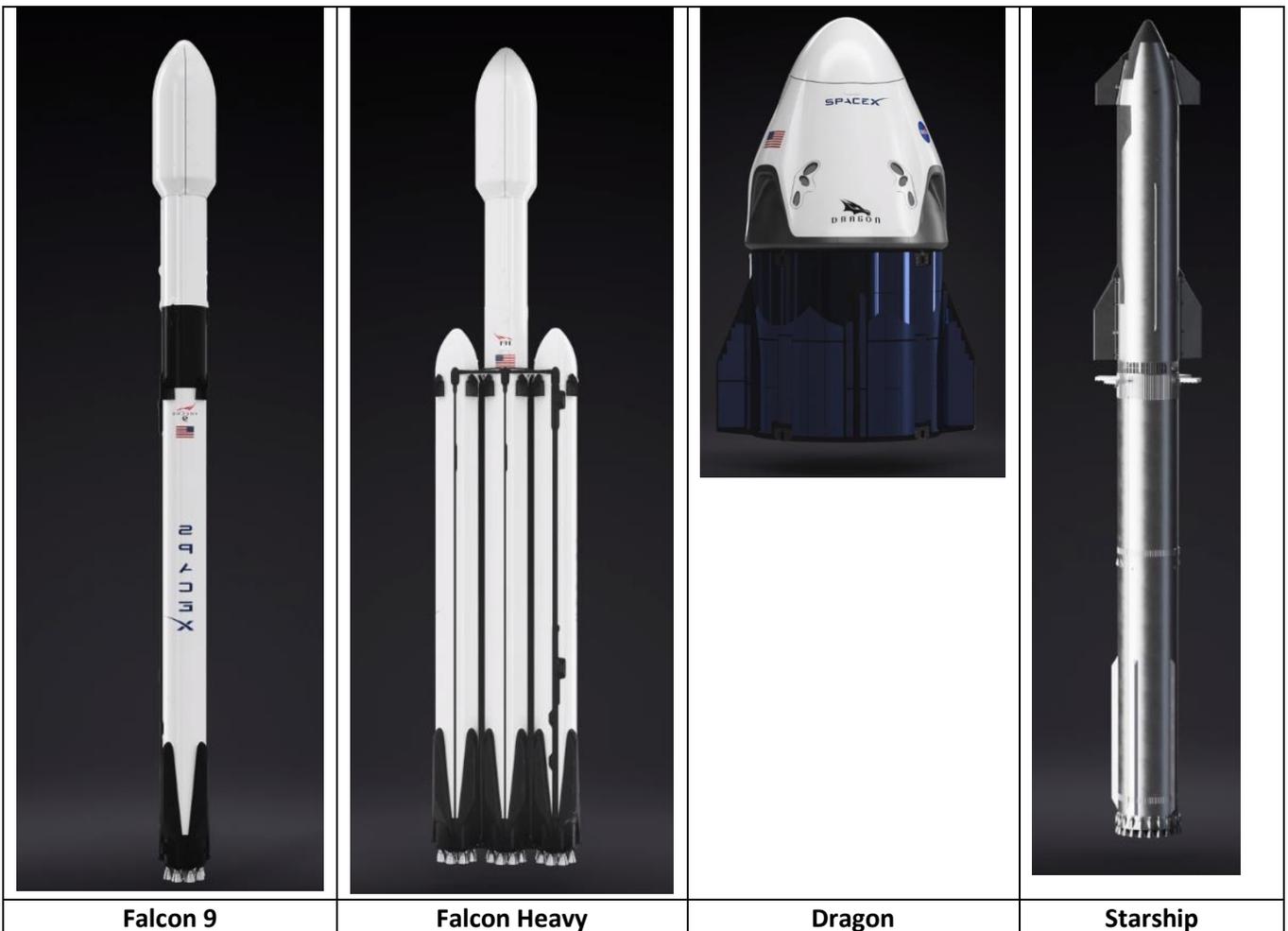
Did you know about..... SpaceX?

The Falcon 9 orbital rocket program is the first orbital class rocket capable of reflight. It has launched 256 times. There have been 214 landings and 189 of the rockets have been relaunched. It is 230 feet high and 12 feet in diameter. It can carry 50,000 pounds of payload to low Earth orbit or 9000 pounds to Mars in theory.

The Falcon Heavy rocket has over 5 million pounds of thrust. The Saturn 5 first stage produced 7.75 million pounds of thrust in comparison. It can carry 140,000 pounds to low Earth orbit. It is 230 feet tall but 40 feet in width. It can carry 37,000 pounds to Mars

The Dragon capsule is capable of carrying up to seven passengers and can return cargo back to Earth. It was the first private spacecraft to take humans to the International Space Station. It has launched 42 times with 38 visits to the ISS. It has been reflown 20 times.

The Starship spacecraft and Super Heavy rocket is collectively known as Starship. It is fully reusable and is the worlds most powerful launch vehicle which can carry 150s ton reuseable weight or 250 tons expendable weight. It is 394 feet high with a 29.5 ft diameter.



The Club's Motto....."Sapientia ducet ad astra" – Wisdom leads to the stars