SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT NOVEMBER 8, 2026

1:00PM TO 4:00PM NAR SECTION #624

Launch Conditions: Temps in mid 50's, blue skies, winds to 145mph

Total Number of Launches: 35 **Rockets Recovered:** 34 **Lost:** 1 **Found Rocket (not launched today):** 0

Total Number of 100% Fully Successful Flights: 26 **Success Rate**: 74.3%

Number of Individuals Who Launched Their Rockets: 10 **Number of Family/Friends/Observers:** 2

Number of First-Time flyers: 0 **Teams and Competitions:** 0 **NARTREK:** 0

Scouts/Home School/4-H Groups: 0

Types and Number of Motors: 35 total

Micro	1/4A	1/2A	A	B	C	D	E	F	G
0	0	0	2	9	16	4	1	2	1

2-motor clustered rocket	0		Two-stage rocket	0
3-motor clustered rocket	0		Three-stage rocket	0
Other: 0				

Total Impulse:

Total Impulse for this launch day:	487.7 N-s
Previous Launch:	262.9 N-s
Total Impulse for the Year:	4579.9 N-s

(Note: the mid-point of each impulse range for a motor class is used)

Failures: 9 total 2 chutes ejected but did unfurl, 3 chutes not ejected, 1 rocket lost, 1 shock cord broke, 1 too low impulse, 1 unstable Cg/Cp

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

FINANCES:

ITEM	COST EACH	# PURCHASED	TOTAL INCOME
Straight out donations	NA	NA	$79
t-shirts	$15	15	$0
Polo shirts	$30	0	$0
Baseball Caps	$14	14	$0
Food and Drinks	$1	5	$5
Stickers	$0.25	0	$0
Mugs	$10	0	$0
New/Renew Memberships	$5	5	$0
TOTAL			**$84**

Rocket Topics and Issues:

1. Nice Sunday for launching although a little windy, clear skies and brisk (50's)
2. Tim B. wowed the crowd with two large rockets - Estes Archer XL on a G40-4 White Lightning, and an Apogee Components Kronos on a F42-4T (blue-violet flame and low smoke)

   Tims launch data:

Date:		11/08/2026	11/08/2026
Flight #		1	2
Rocket Name		Archer 14 XL	Kronos
Motor Used		G40-4W	F42-4T
Apogee Altitude	feet	351	378
Top Speed	mph	86	112
Burn Time	burn	2.37	1.29
Peak Acceleration	PAcc	2.9	5.8
Avg. Acceleration	AAcc	1.7	4
Coast to Apogee Time	C2AP	3.3	2.7
Apogee to Eject Time	AP2E	1.1	0.2
Ejection Altitude	EALt	337	330
Descent Speed	dESc	22	9
Flight Duration	durA	16.6	26.7
		Chute failed to	Successful

3. Aaron has been making a name for himself with six rockets launched today. These included 3-d printed rockets and a rocket with an altimeter.
4. Harold won the greatest number of rockets launched by a single rocketeer with eight being launched
5. Thanks go to Robb and Gary for helping managing Range Safety and Launch Control!

Next meeting: Tuesday December 1st at 6:00PM - 7:30PM. Lebanon Library lower level meeting room.

Next Launch: December 6th. Meet at Hisey Park. Setup 11:00AM, launch 1:00PM

Please remember to renew your SORA membership for 2027. It's a great club!

Also, please renew your membership to NAR!





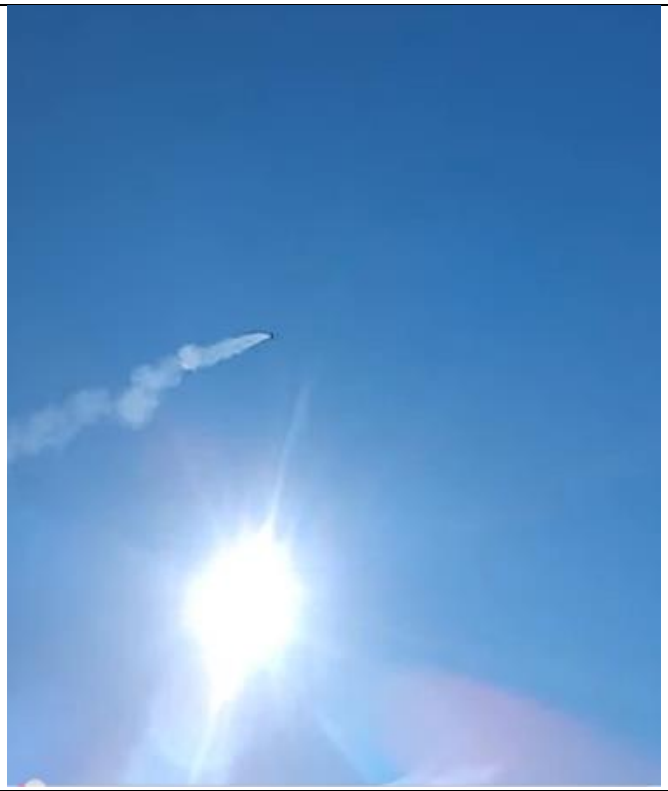

ARMAZOND

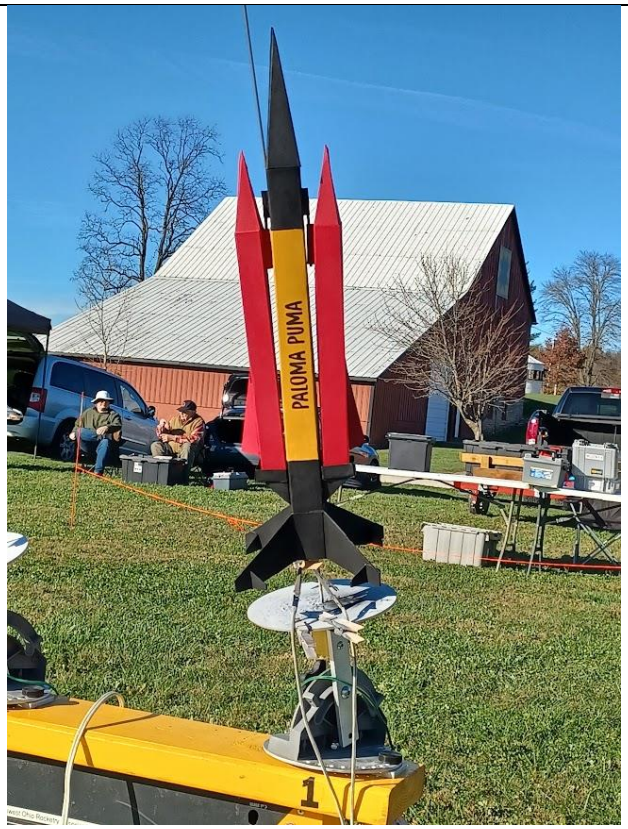

Hydor Hydra


Kamelos King


SCOTLAND






PALOMA PUMA
1






6
5

FUN FACT: Need a job walking?

With multiple countries launching rockets, sooner or later, all those rocket capsules have to come down. Water landings are common, but some capsules can also land on the ground. Boeing's Starliner is the first American spacecraft capsule specifically designed to land on dirt rather than water. It's target area currently is the White Sands Space Harbor inside the White Sands Missile Range in New Mexico.

Water landings have their problems such as when Gus Grissom's Liberty Bell 7 capsule sank to the bottom of the ocean in 1961 after the explosive bolts blew the hatch open. (The capsule was later recovered)

But landing on ground also has its problems. If you look at the photo of Starliner you can see large airbags that had been deployed. As with airbags, they can be punctured. One issue with landing on earth is landing on objects protruding up from the ground.

So, NASA has a team that goes out to the landing site a week or two prior to launch and walks the entire site looking for anything that could damage the airbags, the capsule, or penetrate into the capsule, resulting in injury to the astronauts. Metal fence posts, old rusted machinery, stone/masonry work jutting up from the ground, etc. all have to located and potentially removed. So, if you need a job walking around the desert looking for hazards, contact NASA!





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