



S T E M FLIGHTS

2024

Annual Report

PROGRAM & CURRICULUM

- 450 new students applied for a STEM Flight in 2024.
- Middle and High school educator and district partnerships
- Free **NEW** Educator lesson plans that teachers can download for free
- Updated STEM Flight Following™ to include better access to resources, mentoring, and scholarships
- 2024 National Partnerships include National STEM Honors Society, Tango Flight, and EAA's AeroEducate, After School Alliance, Smithsonian's National Air and Space Museum, American Rocketry Challenge, Red Tail Flight Academy, and Million Girls Moonshot
- 5,000 students reached with educator downloads
- "Where are you Now" feedback from students who have flown with us in the last 5 years
- Launched Student Ambassador program which brings students into the organization to help increase student applications



FLIGHT OPS AND SAFETY

- 450+ STEM Flight Missions Flown in 2024*
- 160 new Pilot Mentor Applications*
- Monthly safety briefings to all volunteer pilots
- Continued recruitment of new volunteer pilots and retention of those who fly with us already.
- Created new Pilot Portal for enhanced volunteer experience.
- Hosted FAA Safety Team (FAAST) webinar to educate, train, and inspire new and current Pilot Mentors.
- Monthly FAA safety briefs to volunteer pilot community to foster commitment to safe and fun flying.
- Created Pilot Ambassador program to engage with volunteers on a national level.

*projected by 12/31/24



SUSTAINABILITY & GROWTH

- Featured on podcasts: Hangar Flying, Aviation Careers, Nate the Science Kid.
- Guest speaker AOPA HS STEM Symposium, guest speaker at Women In Aviation International, presentation at SunNFun and AirVenture, sponsor of Air Care Alliance annual conference.
- Partnered with Women In Aviation to host Girls In Aviation Day
- Created non-flying volunteer opportunities and internships to reach more kids throughout the country
- Partnered with Eastern Michigan University to host Aerospace Day and deliver 50 flights to Detroit area students
- Joined Aerospace Education Program Alliance for partner collaboration to deliver aerospace career opportunities
- STEM Flights has pilots and/or students 47 states.
- Founder and Chairman Dave Brubaker selected as National Aeronautics Association's Distinguished Volunteer Pilot



2024 HIGHLIGHTS



Outlook 2025

In 2024, STEM Flights celebrated 6 years of operations and a total of over 1,000 kids flown - thanks to our many volunteer Pilot Mentors and the support by our generous donors. We also expanded our services this year beyond just the flights. Our new programs with Educators include aviation & STEM in-class curriculum (downloadable), teacher demos flights, and local Student Ambassadors. Each of these initiatives will significantly expand the reach of STEM Flights and help inspire & motivate thousands more Middle & High School kids.

2025 Goals will include serving 10,000 students nationally with a combination of flight experiences, aerospace curriculum, and classroom resources. Additional goals include expanding our national outreach and partnerships with Educators, adding 50 new volunteer Pilot Mentors, and increasing follow-up resources for students after the flight (Flight Following). We will also build on our current goal of annual student surveys - to help track each student and the impact of STEM Flights on their career path.

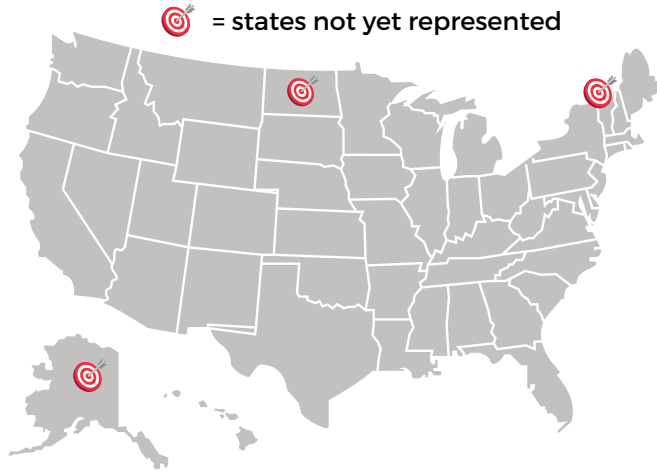


With Gratitude,

Dave, Carley, Austin, Maria

2024 METRICS

STEM Flights presence in 47 states



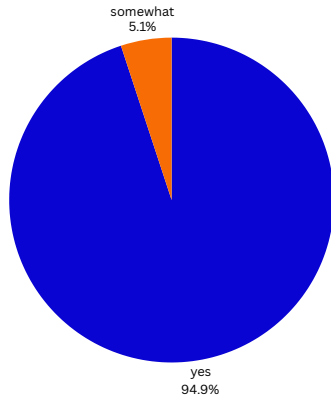
2024 By the Numbers*

450 STEM Flights flown
450 Student Applicants
160 Pilot Mentor Applicants
5,000 students served
with Lesson Plan

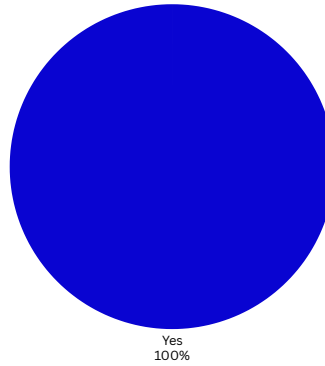
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2024 Student Survey Feedback

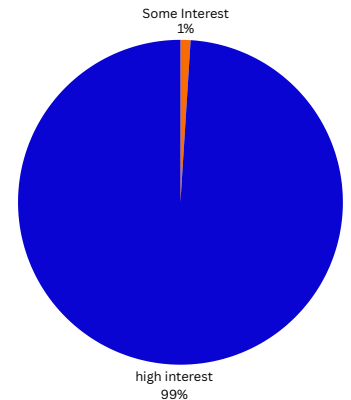
Did your STEM Flight experience encourage you to learn more about careers in Aviation/Aerospace or STEM?



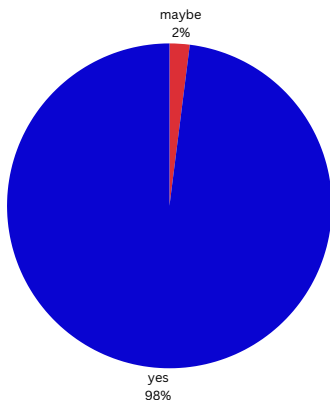
Did your pilot provide information on your selected Mission?



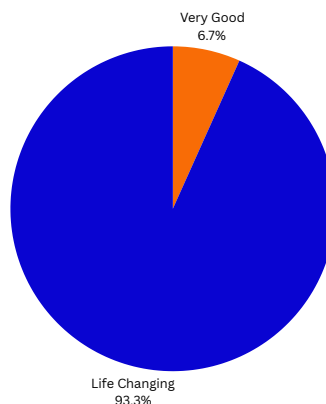
What was your interest in Aviation + STEM AFTER your STEM Flight?



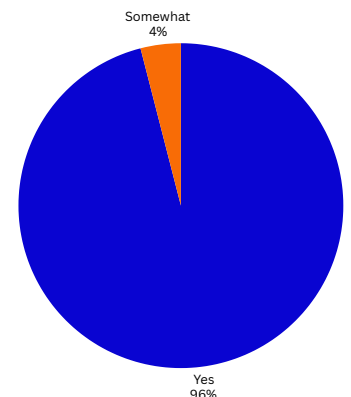
Do you hope to pursue a STEM or aviation career in the future?



How would you rate your STEM Flights Experience



Do you feel as though you learned valuable STEM and Aviation content during your STEM Flight experience



2024 Student Testimonials

"The experience was amazing and reaffirmed that I want to pursue a career in aerospace. I liked how much freedom I got in the air to do what I wanted to do to understand what flying is about." - 12th grade student, Virginia

"I loved the STEM Flight Experience with Mr. Stover! I really enjoyed learning about the GPS and navigational systems before the flight and learning about all the different parts of the plane. I loved flying too. It was a lot of fun and I hope to fly again. I am planning to study aerospace and mechanical engineering and will explore getting a pilot's license. I appreciate all the time Mr. Stover took out of his busy schedule to share his aviation experience. It was amazing to fly a plane with him!" - 11th grade student, Maryland

"The experience made me even more deeply interested in math, science, and engineering, because a simple flight involves so much STEM! I also learned so much about the aviation career. This is such a memorable experience for me!" - 10th grade student, Washington

"I had an awesome experience on my STEM flight! It felt so cool to be able to fly on my own and get to learn all of the basics of flying. My mentor Fred was awesome and super helpful as well as knowledgeable. This was really a good first step in my aviation career" - 11th grade student, Missouri

"After my experience with my STEM flight, I believe the STEM flight is not only a necessary step, but an important step to take to see what your career could be like in the future, learn more about aviation in general, and to ensure you want to continue on taking the required steps your career demands." - 9th grade student, Michigan

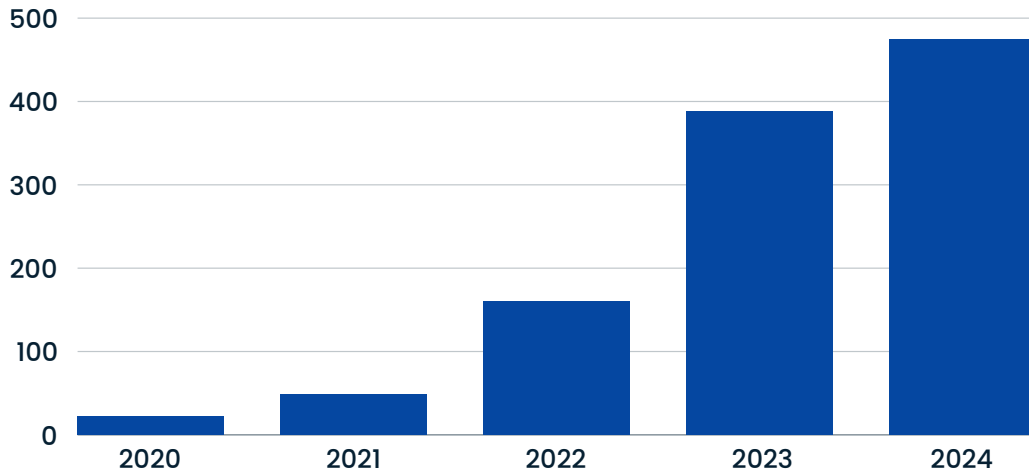
"At this age (16), flying a plane is something I have never thought of. I flew a plane before getting my driver's license! It felt magical to look above and see my community, as well as to be able to pilot the flight for some time. Compared to commercial flights, where I am just a passenger, being a co-pilot is something that I have now checked off of my bucket list! Additionally, I could communicate with the air traffic control towers and experience it all first-hand. I truly enjoyed this experience, and I recommend young minds also to experience this" - 11th grade student, Texas

"I had a fantastic experience and learned a lot about how to begin pursuing a career in Commercial Aviation. It also allowed me to get a feel for what it is like to fly a plane; something I have never had the opportunity to try before. Thanks to my STEM Flight experience, I have been able to better decide what career I want to pursue in the future." - 12th grade student, Indiana

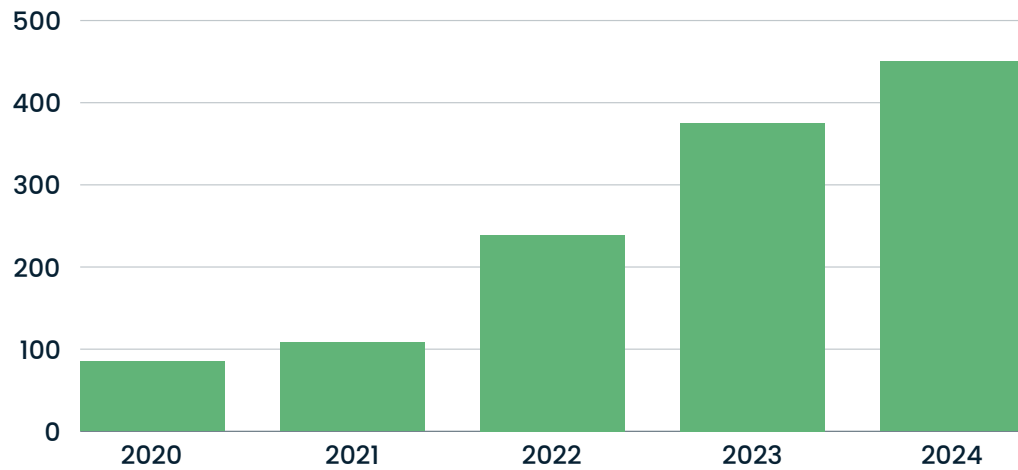
STEM Flights Growth

*projected by 12/31/24

Total Number of Volunteer Pilot Mentors



Total Number of Student Applicants



Total Missions Flown

