

NAAA eNewsletter

NAAA Completes a Capital Marathon Week With Leadership Training, Government Advocacy and Board Meetings

For five full days, from Feb. 14-18, NAAA exerted great influence in our nation's capital region, whether it was providing professional training to the next generation of leaders of the aerial application industry, advocating key ag aviation policy positions to federal officials, or outlining substantive policies for the national association to strengthen the industry moving forward.

Leadership Training Program

NAAA leadership program participants get ready to hit the halls of Congress with NAAA President Craig Craft and CEO Andrew Moore.

The 26th class of the Leadership Training Program began Tuesday, Feb. 14, where 11 individuals nominated by state and regional ag aviation trade associations underwent professional training in understanding personalities, policy advocacy, and media and communications training for 3 ½ days. The group, along with NAAA board, committee and staff members, spent multiple days advocating ag aviation policy issues to federal policy and lawmakers, including meetings with the EPA advocating for aerial use language on pesticide labels without unnecessary and burdensome label language; and meetings with multiple U.S. Senators and U.S. Representatives on subjects ranging from funding federal aerial application research, eliminating unnecessary and duplicative water permits for applying pesticides under the Clean Water Act when FIFRA already requires pesticides' safety to water, tower marking and logging requirements, and drone safety requirements.

NAAA CEO Andrew Moore, NAAA's South Dakota board representative, Craig Bair, and NAAREF President Perry Hofer of Doland, South Dakota, met with Sen. John Thune (R-S.D.).

NAAA's Arkansas board representative, Matt Woolard, arranged a meeting with Sen. John Boozman (R-Ark.) in Washington last Thursday. Pictured from L-R: NAAA leadership training participants Travis McPherson (North Dakota), Justin Staas (California) and Bart Alexander (Louisiana), Woolard, Sen. Boozman, leadership training participant Brant Bottoms (Arkansas) and NAAA's Moore. Sen. Boozman is the Ranking Member of the Senate Agriculture, Nutrition and Forestry Committee.

AgAv PAC Breakfast

Sen. Deb Fischer (R-Neb.) spoke at NAAA's AgAv PAC breakfast.

NAAA hosted its annual fundraiser for its political action committee—AgAv PAC—during its capital area board meeting and was joined at the event by U.S. Sen. Deb Fischer (R-Neb.). Fischer spoke about the upcoming farm bill, which must be authorized this Congress and discussed a particular piece for the bill she is authoring that would provide incentives for farmers that utilize precision agricultural technologies.

EPA

Ed Messina, the director of the EPA's Office of Pesticide Programs, updated NAAA's Board on pesticide policy issues on Feb. 17.

Another key government official addressing the Board was Ed Messina, the director of the EPA's Office of Pesticide Programs (OPP), which has jurisdiction over approving pesticides on the market and how they may be used. Messina gave a great presentation summarizing the different decisions at OPP and how some weigh the risks and others the benefits of pesticides to formulate their registration and labeling decisions. He also elaborated on the challenges the EPA faces presently, particularly dealing with the Endangered Species Act (ESA) and Section 7(a)(2) of the statute requiring that federal agencies must ensure that the "actions" they authorize will not result in jeopardy or adversely modify designated critical habitat for species listed as endangered or threatened by the U.S. Fish and Wildlife Service (FWS) and/or the National Marine Fisheries Service (NMFS) (jointly the Services). OPP's "actions" that may jeopardize species are authorizing the sale, distribution and use of pesticides according to the product labeling. The EPA is consistently sued by environmental activists over the ESA. Messina provided several quotes from judges in these cases, such as one from the *Center for Food Safety v. Regan*, Dec. 2022, 9th Circuit where the judge states, "It's déjà vu all over again. EPA comes before this court once

more because of its failure to abide by the law.... EPA cannot flout the will of Congress—and of the people—just because it thinks it is too busy or understaffed.” The EPA is currently saturated with pesticide decisions that must be reviewed under the ESA.

Messina also stated that OPP is currently evaluating NAAA’s input recommendations for Tier 3 analysis under the AgDRIFT atmospheric model. Tier 3 analysis means further refinements to off-site drift analysis to take into account more specific and refined aerial application inputs, which could allow greater use of specific pesticides as they go through individual risk assessments because of potentially lower modeling of off-site drift.

Messina also stated that OPP is working with several groups to better understand the use of UAVs for pesticide application, such as the EPA PPDC Emerging Technology Working Group, of which NAAA staff are on the group. OPP is trying to better understand the process for updating risk assessment, labels, obtaining additional data, etc. when it comes to UAVs.

CEO Report

Andrew Moore, NAAA CEO, provided an association and industry overview, starting with an economic overview stating that USDA forecasts food price inflation in 2023 to be 7% compared to 2022’s 9.9%. Farm Income in 2023 is forecast to drop \$25.9 billion (15.9%) to \$136.9 billion from 2022. The drop is partially due to U.S. ag exports, which are expected to decline by \$2.5 billion in 2023 from 2022 due to the high value of the dollar versus other global currencies and a current anemic U.S. trade policy. The current administration has been late in getting key trade advisors in position, and China is tapping Brazilian supplies of corn with Ukrainian corn production down due to the conflict with Russia. The U.S. hasn’t taken advantage of corn production losses in the Baltic.

Public policy issues were then discussed, starting with the farm bill, which expires this fall, if it is not extended or reauthorized. NAAA has been lobbying Congress to enact regulatory relief as part of the bill, such as codifying state and federal preemption of enforcing pesticide regulations under FIFRA to prevent a hodge-podge of different county and municipal rules; also pushing a law to exempt pesticide applicators from having to obtain water permits under the Clean Water Act (CWA) since pesticides are already tested for water safety and the Biden administration’s new definition of a Water of the U.S. under the CWA would include ephemeral waters that may not have waters running through them for months if not years. NAAA will also be advocating for federally funded aerial application technology research as part of the farm bill. The fight will be tough to enact a farm bill, especially in the House of Representatives, as deficit hawks square off with food stamp constituencies, which consist of about 80-plus percent of farm bill spending. Federal debt has increased 50% since the last farm bill in 2018 to \$32 trillion when \$26.3 billion of ag spending was cut.

From L-R, NAAA Precision Agriculture Committee Chairman Glenn Holloway Jr., Government Relations Committee Chairman Damon Reabe, President Craig Craft and Scott Bretthauer, NAAA’s director of policy, education and safety, at a meeting with the EPA.

Moore discussed pesticide issues, many of which were discussed by EPA OPP Director Messina. NAAA continues to work to reregister pesticides labeled for aerial use without unnecessary or burdensome label language. Since 2017, NAAA has submitted a total of 257 comments to the EPA to support such uses. Another concept brought to the EPA’s attention during the time the Board was in town was a software concept named site-specific risk assessment. Inputted into the software would be the environmental conditions at the actual spray site (waterbody nearby, endangered species, etc.), then the application equipment used (nozzle, boom width, pressure, etc.). The output would be either additional protections needed for the applicator to implement to protect a sensitive area, or perhaps grant leeway to the applicator, such as allowing for the application to take place in wind speeds more than existing limitations.

Moore also discussed NAAA’s efforts to continue to meet with major chemical manufacturers to register products aurally. Last year it met at UPL, BASF and Syngenta headquarters to meet with top-level officials. This spring it is working on meetings in the Midwest with Bayer and Corteva.

Moore touched on transportation policy issues such as NAAA Board member from Arkansas Matt Woolard’s efforts along to get the Federal Motor Carrier Safety Administration to release a proposed regulation later this year allowing states to transport up to 1,000 gallons of Jet A without a CDL HazMat endorsement. Moore also brought up NAAA’s comments to the EPA to not ban avgas leaded fuel until an alternative is readily available and affordable. He also stated that Congress must pass FAA reauthorization legislation this year, and NAAA will be urging Congress to expand the 2018 statute it worked on requiring both marking and logging of rural towers between 50 and 200 feet tall and 10 feet in diameter or less to apply to all types of towers meeting this description. NAAA will also be working to put in statute language requiring drones to always give right-of-way to manned aircraft.

Moore switched gear to communications. NAAA is proceeding again with its “Above All Forms of Crop Care” ads promoting the agricultural benefits of aerial application and providing the website link for farmers to find NAAA operator members that conduct such services. The ads will be published this spring in Farm Journal Media’s AgWeb newsletter (circulation: 201,000 farmers nationwide), *The Scoop* magazine (circulation: 20,000 ag retailers and crop consultants nationwide) and *Top Producer* magazine (circulation: 100,000 large farmers nationwide).

Moore also discussed progress made by NAAA’s Ad Hoc Communications Committee, which is studying ways to broaden NAAA’s focus on external communications after the success of the public relations results of the 100th anniversary celebration. Discussions have been made with publisher Farm Journal to perhaps have ag aviation articles be more present in their widely circulated publications to agriculture. Conversations have also ensued with Marsayl Media about the possibility of providing programmatic marketing services on behalf of NAAA. Programmatic marketing takes data from a web user to program the best web advertisements that best represent that user’s search/viewing behavior. NAAA has also worked with public relations agencies such as the Baering Group and Clyde Group to

provide services to broaden the industry's reach to the larger media.

Accident data was then presented from the recently released 2021 FAA General Aviation Activity Survey. It showed a total of 924,037 ag hours flown that year, with 5.95 accidents per 100,000 hours flown. Those stats showed that our accident rate has continued to decrease since the PAASS Program hit the stage in 1999 by 26.34%. Total accidents in 2022 were 51, sadly, nine of which were fatal. Moore then announced that the Certified Professional Aerial Applicator Safety Steward (C-PAASS) program is now up and running and that those who are NAAA members and belong to a state/regional ag aviation association, along with having completed the past three years of PAASS and gone through an Operation S.A.F.E. clinic over the past two years may now complete their application and receive their 2023 C-PAASS certification at <https://education.agaviation.org/cpaass>. Craig Craft, the 2023 NAAA president, is the first person to receive the C-PAASS certification. In 2024 additional online training and testing material will be required to become C-PAASS certified.

Scan here to get C-PAASS certified.

The 2022 Knoxville, Tennessee Ag Aviation Expo was then discussed. It was a profitable show, netting \$809,771 for the association, with 1,573 attendees. The 2023 show in Palm Springs, California, is coming together nicely. Aircraft will be flown to Palm Springs International Airport and towed to the convention center. The Kickoff Breakfast speaker will be Burt Rutan, described by *Newsweek* as "the man responsible for more innovations in modern aviation than any living engineer." He designed the legendary Voyager, the first aircraft to circle the world nonstop without refueling. He also created SpaceShipOne, the world's first privately funded spacecraft, which won the \$10 million Ansari X Prize, offered in an effort to spur the development of affordable space tourism. The 2024 Ag Aviation Expo will be in Fort Worth, Texas, followed by Reno, Nevada, in 2025 and 2028 and Savannah, Georgia, in 2026.

Membership was then discussed. NAAA completed 2022 with a total of 1,826 members—88 more than in 2021 which includes 23 more operator members and 55 more pilot members, although still only 31% of the total number of aerial application operators and non-operator ag pilots in the U.S. As of the end of January, there were 1,129 NAAA members for 2023—423 operators and 323 pilots.

Moore concluded with optimistic forecasts for agricultural production, again citing global population figures of 8 billion humans presently on the planet with 9 billion souls expected by 2050, according to the United Nations. This and the trend of global average temperatures steadily increasing since 1980 to today has increased fungi and other pest pressures in ag and will likely result in more and more demand for pesticide applicators.

Board Meeting

President Craft presides over NAAA's board proceedings.

After a busy day-and-a-half of meetings, President Craig Craft presided over the Feb. 18 afternoon NAAA board meeting. The following are business highlights and approved motions from the committees and Board:

Joint Allied & Convention Meeting: The 2022 Knoxville, Tennessee Ag Aviation Expo was a smashing success ranking second in total income received from an NAAA convention. Unfortunately, NAAA had to pay an attrition penalty to one of the hotels due to last-minute cancellations and not filling the room block. To avoid this in the future, NAAA is working with future convention hotels to have a three-week cancellation clause; if a room is canceled within a three-week window of the start of the convention, a one-room-night penalty will be levied and applied to NAAA's room block.

Palm Spring's convention this year will include Burt Rutan, the world-famous aeronautical engineer and designer of the Voyager and SpaceShipOne, as the Kickoff Breakfast speaker.

The Board approved a motion by the committee to negotiate contracts for a November 2027 Ag Aviation Expo in Oklahoma City, Oklahoma, based on the offer the city provided the association.

Budget & Finance Committee Meeting: Darrel Mertens, former Treasurer from Colorado, provided an excellent and comprehensive overview of the association's finances. The total assets for the association equal \$5,448,822 and rose \$29,638 from last year. As of Jan. 31, 2023, net income for NAAA is \$633,561, \$50,809 above the prior year.

Mertens also presented a proposed 2023-2024 Fiscal Year Budget. The budget includes underestimating revenues that may be seen from people wanting to be certified under C-PAASS. More convention revenues may also be seen from the convention and wires course, but they were not budgeted. C-PAASS has also seen increased insurance costs and software costs to install learning management software to provide online courses and testing to the tune of \$47,000. The budget, ultimately enacted by the Board, has a projected deficit of \$192,591.

Communications: Oklahoman Matt Regier, chair of the committee and of its ad hoc panel looking at augmenting external communication activities, reported on a presentation made by Marsayl Media's Graham Lavender on programmatic advertising. This is a system that makes it possible to purchase and place ads, including targeted advertising content, in less than a second on the internet based on the users viewing habits. It is a system the committee is looking at to benefit NAAA by getting the industry messaging out to the right audience.

The committee also discussed new publishing opportunities and techniques for the magazine, including partnering with *AgAir Update* to publish *Agricultural Aviation* magazine as part of an insert to *AgAir Update* or a freestanding publication. The committee also discussed Farm Journal publishing the NAAA magazine and possibly having consistent NAAA/aerial application articles in its ag retailer/crop consultant magazine, *The Scoop*, which has a 20,000-plus circulation.

To focus more on external communications, as a healthy majority of members and those in the industry were surveyed wanting last spring to positively promote the industry to the public as was done during the recently completed 100th anniversary celebration, the committee brought a motion to the Board to discontinue the summer issue of *Agricultural Aviation* magazine and bring the number of annual issues from four (4) a year to three (3) a year beginning in 2024. The Board approved the motion.

Government Relations: Chairman Damon Reabe of Wisconsin reported on the government relations issues reported above in the CEO report. He also made a vital point of urging all board members to complete any survey NAAA requests of them and to urge those in their states to do the same. Examples of such surveys include the [Rasp Flight Research Laboratory's request](#) for ag aircraft GPS data to counter drone users' claims that there is minimal activity at 500 feet or below; a similar survey on obstacle encounters recently released by the University of North Dakota; the NAAA Industry Surveys, etc. The data gathered by these surveys are imperative to NAAA's advocacy efforts on behalf of the aerial application industry.

Insurance: Chairman Rogge of Colorado reported that the association is looking at the possibility of offering group health insurance to members by researching the services provided by a company named [Decisely](#). Decisely is a technology company partnering with health insurance plans nationwide to effectively create a healthcare.gov type site that may be available to members to choose a health care plan that works for their business or individual pilots if the operator chooses not to offer insurance. The first step to moving forward is to survey the membership and gauge the interest. NAAA would have to use Decisely's survey and there is a cost. NAAA is looking into this and will report on the cost and move forward if reasonable.

Membership: Louisianan Dwayne O'Brien, Vice President, presented the committee's report. One very interesting highlight that the committee worked on is the Charles Stokes Memorial Turbine Training Scholarship, a scholarship generously funded by Jim Mills of Turbines Inc. that will provide scholarship funds to a turbine training institution for a low-time ag pilot making the transition to a turbine engine ag aircraft. Applications will be available soon and are due at the end of August. Regarding the Ag Wings of Tomorrow Scholarship, BASF and Thrush have both committed to \$10,000 for the 2023 scholarship.

Museum: Matt Woolard of Arkansas informed the Board that the Agricultural Aviation Museum and Hall of Fame in Jackson, Mississippi, is planning phase two renovations which will include a 30-seat theatre. The refurbished Snow S-2A is expected to be delivered in late spring to its final resting place in the museum, and the NAAA's 100th anniversary book, *Agriculture's Air Force: 100 Years of Aerial Application*, is now for sale in the museum's gift shop. NAAA is working with the Smithsonian to sell the book in its National Air and Space Museum gift shops. The committee discussed and agreed to explore creating a walkway at the museum to memorialize pilots lost to ag aviation accidents. The idea would be to list the names of everyone who has been killed in an ag aviation accident, going as far back as possible, by imprinting their names on pavers placed along an outdoor path at the museum that could be called "The Last Pass Path." The first step is to research and develop a list of fallen pilots, which Graham Lavender has begun to do. The committee is moving \$2,500 from NAAA's Harold Miller Fund to help finance this project.

Precision Agriculture: The committee discussed Application Insight's forthcoming nozzle shield caps aimed at reducing small droplets, which is showing promise in reducing drift. Also, Stephen Foster of Foster and Associates Technology Consulting provided an update on current efforts to modernize AgDISP—the atmospheric model determining drift movement. He presented a proposed software development plan which would produce open-source software to use by the EPA, researchers and applicators for autonomous spray systems and the site-specific risk assessment concept. The next step forward is fundraising for this project.

Support: Sue Stewart from New Mexico discussed the topics for the 23-24 Athena program—educational material brought to the state conventions to support ag aviation operations' crew. The topic next season will be titled "The Five Blades to Propel your Health & Wellness" and will focus on a variety of wellness topics such as hydration, environment, relationships, etc.

The Support's convention activities in Palm Springs will include a Monday meet-and-greet program to take place at the Palm Springs Air Museum. The Athena program will also be presented during the Ag Aviation Expo. The topic for this year's Support Committee scholarship is "What value does ag aviation bring to your local economy?" and that information is on the NAAA [website](#).

NAAREF: NAAREF President Perry Hofer of South Dakota announced that the curriculum for the PAASS program is well established, with program content determined for the educational program for the next two years. He also mentioned new funding sources, stating that there are now two state associations sponsoring PAASS at the \$5,000 level, qualifying them for an ad in PAASS—Illinois and New Mexico. Hofer also mentioned that the Sunday fundraiser for PAASS, Dec. 3 at the Ag Aviation Expo, will be karaoke and called "Crooning for PAASS."

Concluding Business: Tom May with the Nebraska Aviation Trades Association made a \$3,000 donation to NAAREF. Sue Stewart with New Mexico announced that their state made a \$3,000 donation to NAAREF during the Covington match, and they are now donating an additional \$2,000 to NAAREF, for a full \$5,000 donation. Don Younglove with Illinois announced that their state made a \$5,000 donation during the Covington match.

From top to bottom, NAAREF President Perry Hofer accepts donations from Tom May on behalf of the Nebraska Aviation Trades

Association, Sue Stewart on behalf of the New Mexico Agricultural Aviation Association and Don Younglove on behalf of the Illinois Agricultural Aviation Association.

Before adjourning, President Craft recognized the leadership training program participants. He also reminded the Board of Directors of key takeaways from the meeting:

- Remind people in your state to book in the room block for the Ag Aviation Expo.
- Nominate a member for an award from your state/regional association.
- Complete the surveys that NAAA sends to members.
- Remind your state/regional members to turn in GPS data to the [MSU Raspnet study](#).
- Remind your state operators and pilots to join NAAA and the state/regional association.
- Consider hosting the Athena Project at your state/regional conventions.
- Sponsor a Support scholarship applicant. Also, check out the new Charles Stokes Memorial Turbine Training Scholarship.
- Challenge your state/regional association to donate to NAAREF.

It's Here! Application Now Open for C-PAASS 2023—Certified-Professional Aerial Applicator Safety Steward

Aerial applicators, now more than ever, operate in an environment of competing interests. An ever-increasing demand for timely and effective applications is challenged by factors such as added regulatory burden, rising insurance costs and stiffer pesticide label language, just to name a few. The agricultural aviation industry is rising to these challenges and, in character, has moved to advance education, rather than regulation, as the path forward.

NAAA and NAAREF have jointly launched the Certified-Professional Aerial Applicator Safety Steward (C-PAASS) program to serve as the industry's flagship certification and as a roadmap for the pursuit of the best educational opportunities currently available. This voluntary program allows those aerial applicators who strive to constantly educate themselves to better their safety and application quality to be recognized for their efforts. Secondly, the certification can signal to customers, regulators and others outside the industry their commitment to professionalism.

C-PAASS certification is offered on an annual basis to individual ag pilots, both operator and non-operator. As the first year for C-PAASS, its requirements are based entirely upon education and professional opportunities already available:

1. **Annual PAASS Attendance for three (3) years**
 - 2020-2021 season, AND
 - 2021-2022 season, AND
 - 2022-2023 season
2. **Biennial Operation SAFE Participation**
 - 2022 season, AND/OR
 - 2023 season
3. **Annual Membership in NAAA**
 - 2023
4. **Annual Membership in a State/Regional agricultural aviation association**
 - 2023

To submit a 2023 C-PAASS application:

1. Check your eligibility at <https://education.agaviation.org/cpaass>
 - You will need to log in using your NAAA username/password. Contact information@agaviation.org if you need assistance.
2. If eligible, scroll to the bottom of the page and locate the **2023 C-PAASS Application** tile. Hover over it and click the green **Register (Free!)** button.
3. You will be prompted to attest to your completion of each of the requirements and directed to upload documentation of your 2023 membership in a State/Regional agricultural aviation association. NAAA Staff will be automatically notified to review your application once this documentation is submitted.
4. Your application will be reviewed within three (3) business days.
5. If your application is accepted, you will be provided a link to pay the certification fee (currently \$100) and obtain your digital certificate.

This is only the beginning. As NAAA develops its own Learning Management System (LMS), new on-demand courses and content will be incorporated into C-PAASS. A wide variety of topics will eventually be included in the LMS, including those covered in 14 CFR Part 137 knowledge and skills and those on how to properly set up agricultural aircraft to make on-target applications.

Apply for C-PAASS certification today! Utilize it to inform regulatory officials and insurance agents and to market to your customers that you have undergone additional training and development to ensure you can provide the highest quality service.

Air Tractor Community Mourns Loss of Ag Aviation Africa Founder Lourens Kritzinger

Air Tractor is saddened to announce the passing of longtime Air Tractor dealer Lourens Kritzinger following a courageous battle with cancer.

Lourens was a successful aerial applicator in South Africa for over four decades, earning a reputation across sub-Saharan Africa for his professionalism and value-added service to customers. For many years, Lourens piloted his own AT-602, providing aerial application services with precision and expertise. Together with his son Matt, they operated Ag Aviation Africa since 2012, providing sales, service and support of the complete line of Air Tractor aircraft.

“Lourens’ passing is certainly a loss to our worldwide Air Tractor family,” said Air Tractor President Jim Hirsch. “He was a talented entrepreneur and wonderful friend. And for ag aviators across the African continent, he was a driver of change and progress.”

Ag Aviation Africa developed infrastructure and supplier networks that allow the company to provide aircraft sales and operational assistance to ag and fire aviation operators in sub-Saharan Africa. Large, commercially operated farms in the region have their own agricultural aviation operations, and Ag Aviation Africa has assisted them with aerial management solutions. Matt Kritzinger will lead the Air Tractor dealership going forward.

“Lourens and his dedication to our industry will be sorely missed. But we know that Ag Aviation Africa is in good hands with Matt,” Hirsch added.

NAAA Comments to EPA on Aerial Application Issues Pertaining to Carbaryl and Endangered Species Protections

On Feb. 14 NAAA submitted comments to the EPA on its Endangered Species Act (ESA) Workplan Update. The ESA Workplan Update was released in November 2022 and was a follow-up to the [original ESA workplan](#). NAAA also submitted comments on the proposed interim decision (PID) for carbaryl.

The workplan update laid out the method by which pesticide applicators will be required to mitigate risks to endangered species:

1. Pesticide labels will direct applicators to the Endangered Species Bulletins Live! Two (BLT) website: <https://www.epa.gov/endangered-species/endangered-species-protection-bulletins>
2. Once on the BLT site, applicators will select the area they intend to spray on the map, the month during which they plan to make the application, and the EPA registration number for the pesticide they intend to apply.
3. BLT will provide a link if there are any bulletins for the combination of location, date, and pesticide.
4. Applicators must print or download the bulletin and follow all additional mitigations on the bulletin; the bulletin is considered an extension of the label and is thus law.
5. Applicators may obtain the bulletin from BLT within six months of the intended application date. This means that the bulletin used for an application may be printed or downloaded anytime from six months prior to just before the application. The closer to the application date a bulletin is read, the better it is for the species—the info is the most up to date. However, too short a time frame is burdensome to growers trying to plan. So the EPA set it at six months.

NAAA commented strongly in favor of one of the proposed mitigation strategies in the workplan update related to the BLT, where it allows the use of wind-directional buffers. Instead of requiring mandatory buffers next to endangered species habitats, applications would be allowed to occur next to an endangered species habitat with no buffer zone provided the wind is blowing away from the habitat. If the wind is blowing toward the habitat, then a buffer zone would be required. This proposal from the EPA marks a major victory for NAAA, which has been promoting the use of wind-directional buffers for many years.

A main goal of the ESA workplan and the update is to improve the EPA’s efficiency with meeting its ESA obligations. The EPA is hoping to reduce the need to consult with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service by proposing that more labels include instructions to protect aquatic habitats and conservation areas via the use of buffers on the label and cover all aquatic and conservation sites, not just those with endangered species. By protecting all of these sites on the main label, there will be fewer individual endangered species that will require further consultation and mitigation, thus speeding up the overall pesticide registration review process. Unfortunately, unlike the BLT buffers, the EPA did not propose making buffers on the main label wind directional. NAAA strongly opposed this in its comments and recommended all buffers—main label and BLT—be wind directional.

NAAA also expressed concerns about proposed mitigations in the EPA plan to reduce the risk of endangered species from pesticide runoff through surface water and soil erosion. Almost all of the mitigation options are under complete control of the grower, not the applicator. NAAA informed the EPA it is unrealistic and overly burdensome to require commercial applicators to police the actions of growers to verify compliance.

The PID for carbaryl closely followed the workplan update, and NAAA commented again that all buffer zones, not just those to protect endangered species, must be wind directional. Click [here](#) to read NAAA’s comments on the ESA Workplan Update and [here](#) to read comments on the carbaryl PID.

FAA Aircraft Registration and Reregistration Changes

When purchasing an aircraft, the use of an FAA copy (formerly called the “pink” copy) of the registration application form 8050-1 for temporary registration has been changed from 90 days to unlimited up to the time the certificate is received, or the application is denied by

the FAA. The new policy language is stated below:

Except when the most recent registration of the subject aircraft is expired or cancelled, 14 CFR 47.31(c) provides temporary authority for an airworthy U.S. aircraft to be operated within the United States without registration when a copy of the signed aircraft registration application is carried in the aircraft. This temporary authority is valid (i) until the applicant receives the Certificate of Aircraft Registration, (ii) until the date FAA denies the application, (iii) or as provided by paragraph (c)(2) of this section.

Paragraph (c)(2) referenced above sets a limit of 12 months from when the FAA lists the application as “pending” that the temporary authority may be used. The “pending” period does not start until the application is processed. As of this writing, the FAA is processing applications received in September 2022. With the FAA being behind on processing applications, if you are concerned about whether or not they have received your application, there is a quarterly index of applications received that may be viewed [here](#).

Reregistration

The FAA is extending the duration of aircraft registration certificates from three to seven years, effective Jan. 23, 2023. If your registration certificate expires after this date, the [registration certificate](#) will automatically be extended for an additional four years.

Civil Aviation Registry Electronic Services (CARES)

The FAA is moving toward online registration services. Currently, paper forms may still be filled out and submitted. After Dec. 5, 2022, individual aircraft owners were able to:

- Complete and digitally sign self-guided aircraft registration applications;
- Upload legal and supplemental documents;
- Receive auto-generated notifications;
- Request aircraft registration N numbers; and
- Make online payments.

Corporations and LLCs will be added at some point in the future. You will need to sign up for a [CARES](#) account to access these features. More information on Aircraft Registration is available [here](#).

NAAA Sets the Record Straight After Misleading Opinion Piece Impugns Aerial Application in Iowa Newspaper

An Iowa newspaper published a [full-throated response](#) from NAAA CEO Andrew Moore after one of its opinion writers wrote a [distorted column](#) that unfairly suggests the costs of aerial application outweigh its benefits to agriculture and society.

What Moore was especially piqued about is that he spoke at length to the writer, Austin Wu, an editorial fellow at *The Gazette* of Cedar Rapids, Iowa. In return, Wu discarded or questioned much of what Moore had to say during the interview and turned to university “agricultural experts” to vet some of the benefits Moore mentioned. Wu’s opinion piece was published under the headline, “Missing the field for crops: discussions on aerial application.” Two weeks later, *The Gazette*’s editors published Moore’s response under the headline “Ag aviation facts contradict columnist’s narrative.”

Moore wrote that “Wu spun a web of words that deceptively attempts to bait a reader to believe the industry is a culprit of Iowa’s loss of natural lands, global warming and for jeopardizing human health.” NAAA’s CEO ended his published rebuttal with a parting shot:

[Aerial Application] is a form of application that has been vital to crop, forestry and human health protection for over 100 years because of its effectiveness, and because it evolves technologically. Wu was informed about this. Unfortunately he took a deceptive approach—one that harms his profession’s reputation, not that of the professionals who are aerial applicators.

Moore’s full response is available [here](#).

Air Tractor Releases New Turn Smart Video on YouTube

Turn Smart: Respect the Safety Margin, Air Tractor’s new safety video, is now available to watch on YouTube. You can also watch it below.

TURN SMART - RESPECT THE SAFET...



Air Tractor's new *Turn Smart* video debuted at the 2022 NAAREF Safety Session. The video features a combination of interviews, stunning animation and flying demonstrations in an effort to educate ag aviators on how to conduct an ag turnaround safely.

Kyle Schroeder, an Air Tractor engineer, introduces the video by providing information on the lethality of stall/spin accidents that result from improperly turning an aircraft. He's followed by Mike Rhodes, Air Tractor's former chief test pilot, who introduces Steve Gustafson, an ag pilot from Louisiana and an AeroShell Aerobatic Team pilot.

Gustafson describes what a safe ag turn looks and feels like. The maneuver must be planned, and you should preserve a margin of safety for when the unexpected happens. Gustafson also talks about the dangers of uncoordinated flight and the misuse of rudder while making ag turns. To assist with his description, animation is displayed to help pilots understand what can happen when turns are uncoordinated. Rhodes and Gustafson then discuss the change in an aircraft's center of gravity as the contents of the hopper are applied and the need to be a smooth and steady pilot.

To emphasize the importance of maintaining a margin of safety, *Turn Smart* turns to Mike Mullane, a retired U.S. Air Force colonel and former NASA space shuttle astronaut, to discuss normalization of deviance. Normalization of deviance occurs when you are operating under pressure to complete a task, which causes you to consider using a shortcut that is less safe than the normal procedure to save time. If you survive, you will be more likely to take the shortcut the next time you're under pressure. Over time, the deviation from safety becomes your new normal.

Later, Rhodes joins Gustafson in his T-6 for some flying examples of what happens when a turn is done incorrectly, causing a stall spin.

The video closes with some key points:

- Beware of overly aggressive turns.
- Back off 10%. Maintain your safety margin.
- A wing at zero-G cannot stall.
- Stay vigilant for "normalization of deviance."
- Practice slow flight, stalls and recoveries.
- Coordinated use of flight controls in every turn.
- Pay attention to operating weight and CG shift.
- Turn using no more than 10 degrees of flaps.
- Choose the correct turnaround maneuver for the mission.

The new version of *Turn Smart: Respect the Safety Margin* is worth watching and rewatching as matter of recurrent training. The knowledge it imparts to ag pilots will undoubtedly save lives. NAAA and NAAREF thank Air Tractor for the time and resources it put into producing such a high-quality safety education video.

Be sure to watch *Turn Smart* so you can turn smart!

FAA Issues Updated Guidance Making Clear Part 137 Operators Aren't Subject to OpSpecs Requirements

Per NAAA's efforts, the FAA has released updated guidance for its inspectors that clarifies an inspector's duties when an ag operator adds a new aircraft to their operation. NAAA **reported** on this expected guidance in the summer of 2022.

In section 3-4228, sub-sections A and B of the guidance, which is available [here](#), inspectors are instructed to update and reissue an operator's LOA A003 using WebOPSS upon request from the operator that an aircraft has been added to their operation.

The use of WebOPSS to complete the A003 form has caused confusion with some FAA inspectors, who have mistakenly concluded that Part 137 operators need to fulfill various other requirements related to 14 CFR Part 119 for operations specifications (OpSpecs). In section 3-4227, the updated guidance makes clear that Part 137 operators are **not** subject to the requirements of OpSpecs.

Sub-section C clears up another issue some ag operators have had, which is an inspector insisting an aircraft be inspected before it can be added to the operator's LOA A003. The new guidance clearly states there is no regulatory requirement for an aircraft to be inspected prior to it being listed on LOA A003.

Finally, sub-section D of 3-4228 states that there is no requirement for aircraft ownership interest in Part 137. A Part 137 operator must have use of at least one certificated and airworthy aircraft equipped for agricultural operations. The term “use” includes ownership as well as any other agreement for use of the aircraft.

In summary:

- Notify your FSDO when you add an aircraft to your operation; they must add the aircraft to your LOA A003 and reissue the updated form to you (section 3-4428, sub-sections A and B).
- You are not subject to the requirements of OpSpecs (section 3-4227).
- You do not have to have an aircraft inspected before it's added to your LOA A003 (section 3-4228, sub-section C).
- You do not need to provide proof of ownership, lease, or any other agreement of use for your Part 137 operation's aircraft (section 3-4228, sub-section D).

Dean Wilson Elected to National Ag Aviation Hall of Fame

The National Agricultural Aviation Hall of Fame Nominations Board is pleased to announce that Dean Wilson is being inducted into the National Agricultural Aviation Hall of Fame. Dean W. Wilson, 87, of Clarkston, Washington, has been selected to be the 53rd inductee into the National Ag Aviation Hall of Fame. The induction ceremony will take place at the 2023 NAAA Ag Aviation Expo Dec. 7 in Palm Springs, California.

Dean's aviation accomplishments are many, as he started his flight training at age 13 and his aviation mechanic training at 17. Dean had 13 years of experience as an agricultural pilot and had converted a couple of UMF Wacos into dusters/ sprayers. After being an ag pilot, Dean started instructing and flying sailplanes. He had plans to design sailplane wings for a Waco, which gave rise to him developing a brand-new agricultural aircraft, the Eagle DW-1 biplane. At the time, Dean was working for Joe Terteling in Boise, Idaho, restoring antique airplanes. Terteling financed the Eagle project.

Dean Wilson (pictured above) developed the Eagle DW-1 biplane, a brand-new agricultural aircraft.

Dean spent four years bringing the Eagle DW-1 from design to production. The Eagle has long wooden wings with microlam spars (engineered wood). Reducing drag on a biplane and obtaining FAA approval for the wings, along with the use of epoxy glue, were some of the unique challenges he faced. The Eagle DW-1 had a production run of 90 aircraft from 1979 through 1983. Many of the aircraft are still in use today, with 30 aircraft currently in the FAA's registration database. The DW-1 was known to have a very good spray pattern and, combined with more current knowledge of nozzles and aircraft spray equipment, is currently being looked at as an aircraft that can be used in sensitive areas.

Dean has an aircraft designer's heart as he went on to develop the Avid Flyer, a kit-built aircraft that is still in production. In 1983 he won the EAA Best New Design for the Avid Flyer. He was the 1998 recipient of the Dr. August Raspet Memorial Award for outstanding contribution to the design of light aircraft. Dean was inducted into the EAA's Homebuilders Hall of Fame in 2010. In 2014, Dean was inducted into the Idaho Aviation Hall of Fame.

In the 100-year history of agricultural aviation, only a handful of individuals and companies have brought purpose-built, newly designed agricultural aircraft to market. Dean Wilson is one of these individuals.

The National Agricultural Aviation Hall of Fame is housed in the Jim Buck Ross Mississippi Agricultural and Forestry Museum in Jackson, Mississippi.

AD Issued to Establish Life Limits on Certain Walter/GE Turboprop Engine Compressor Cases and Drums

The FAA has issued a new airworthiness directive (AD) for certain GE Aviation Czech s.r.o. M601E-11, M601E-11A, M601E-11AS, M601E-11S and M601F model turboprop engines. This AD was prompted by the exclusion of life limits for certain compressor cases and compressor drums from the airworthiness limitations section of the engine maintenance manual.

The AD requires recalculation of the consumed life for the affected compressor cases and compressor drums and, depending on the results of the recalculation, removal and replacement of the affected compressor case or compressor drum with a part eligible for installation. AD 2022-1414 may be viewed [here](#). The AD requires action within 90 days of the effective date of March 13.

FAA Adopting AD for Series 500 Continental Engines

The FAA is adopting a new airworthiness directive (AD) for certain Continental Aerospace Technologies Inc. (Continental) GTSIO-520, IO-470, IO-520, IO-550, IOF-550, LIO-470, LIO-520, LTSIO-520, O-470, TSIO-470, TSIO-520, TSIO-550, TSIOF-550 and TSIOL-550 model reciprocating engines with a certain Superior Air Parts Inc. (SAP) cylinder assembly or intake valve installed.

This AD affects parts installed on or after Jan. 20, 2022. Action is required within 30 days after the effective date of Feb. 17. The AD is being issued without a normal comment period, but comments are still being taken and the AD may be amended as a result of comments

received.

View the complete AD [here](#). To submit a comment, go to the previous link or directly to the comment page [here](#).

Update Your Information for 2023 Membership Directory

Have you moved or changed employers since you renewed your NAAA membership? Allied companies, have you reviewed your company description lately? Ensure your listing in the 2023 NAAA Membership Directory is correct by logging into your account. If any information has changed, please let us know right away. You can provide your information by:

- Updating your information at [AgAviation.org](https://www.agaviation.org). Log in using your username and password and update your information under My Profile.
- Emailing your changes to information@agaviation.org.
- Calling the NAAA office at (202) 546-5722.
- Responding to the letter or email that you will receive in a couple of weeks.
- Faxing your changes to (202) 546-5726.

Please provide any corrections ASAP to ensure accurate inclusion in the 2023 NAAA Membership Directory!

Important Call for GPS Data to Protect Manned Ag Aircraft from Drones

In 2022, an FAA advisory committee weighted with drone interests from Amazon, Google and other unmanned corporate interests suggested that the agency promulgate rules that drones operating beyond visual line of sight be permitted to:

- Increase their weight to 1,320 pounds
- Not equip with ADS-B identification technology
- Not give the right of way to manned aircraft when operating in rural, low-altitude airspace because they claimed there are no other users of this airspace.

As an ag aviator, you know these requests to be patently unsafe and based on false premises. As such, we call on you to help us collect information on ag aircraft's use of the low-altitude airspace. NAAA is working with and supports Mississippi State University's (MSU) Rasper Flight Research Laboratory and its continuing research on safe operational distances between low-altitude, manned aircraft and drones. The study's objectives are to:

1. Identify Ag Aircraft Operational Trends
2. Develop Ag Aircraft Operational Model
3. Validate Model through Observation/Collection of Empirical Data
4. Inform/Educate UAS Operators
5. Promote Safety in all Low-Altitude Ag Environments

Your voluntary participation in this study is critical to achieving these objectives. NAAA encourages you to donate your GPS flight log data to participate in this timely research. Logs from any year(s) are welcome and will be washed of any identifying information prior to use.

Many of you have previously contributed during the first stage of data collection from 2017 to 2020 when NAAA members donated 49,180 flight logs from 20 states. The second stage of the study began in 2021 and seeks to additionally include aircraft make and model info. These details are important, as the airspace modeling will be impacted by aircraft types differently, such as fixed-wing versus helicopter operations.

More GPS flight log data is needed to continue this study. Because of the diverse growing areas and unique geographical challenges experienced by aerial applicators, it is imperative that as many states and regions as possible are represented. This will ultimately help facilitate the safe integration of unmanned aircraft into these different airspaces.

As a reminder, NAAA and Rasper have agreed that all submitted information will remain confidential, and all GPS flight logs will be stripped of any personally identifying information before any research is conducted using the data.

There are several methods available to submit your data:

1. Request a secure upload link for larger uploads OR email directly to Madison Dixon, Research Director.
Email: mdixon@raspet.msstate.edu
2. Mail a flash drive or other storage device to the address below. (The device will be immediately mailed back once data is received if a return address is provided):

Address:

Attn: Madison Dixon
Rasper Flight Research Lab – Bldg. 2
114 Airport Rd.
Starkville, MS 39759

NAAA Releases Book of the Century! Buy It Today

NAAA has released the book of the century—a century of agricultural aviation, that is.

One hundred years ago, an aerial crop dusting experiment spawned the birth of the agricultural aviation industry. To commemorate agricultural aviation's 100th anniversary, NAAA is pleased to present ***Agriculture's Air Force: 100 Years of Aerial Application***.

Agriculture's Air Force provides a new, updated account of aerial application's history, 35 years after Mabry Anderson's masterpiece, *Low & Slow: An Insider's History of Agricultural Aviation*, was published. NAAA's meticulously sourced book is based on a collective history of the agricultural aviation industry based on material from *Agricultural Aviation* magazine, *AgAir Update*, *Low & Slow* and other resources.

Beginning with ***Agricultural Aviation's Spring 2021 issue***, NAAA published excerpts from *Agriculture's Air Force* and continued to do so through the ***Fall 2021 issue***. Those stories are just a small slice of what's in the 268-page hardback edition, however. The complete book contains so much more.

Agriculture's Air Force delves into the intersection of agriculture and aviation. It chronicles the agricultural aviation industry's growth from its infancy in 1921 through the boom times after World War II and on to today's modern era of high-tech aerial application.

The finished hardback book has been years in the making but well worth the effort. "This is a significant piece of work covering not just the industry's history, but its essence," NAAA CEO Andrew Moore said. "We are proud of it and believe it will make a lasting contribution to the industry."

The story of agricultural aviation is much like the broader story of aviation: It is mostly punctuated with interesting smaller moments sandwiched between milestone developments. Aerial application is also the story of technological leaps and bounds.

Agriculture's Air Force covers five eras spanning more than 10 decades. In addition, it features 34 Spotlight pieces focused on significant individuals, organizations, trends, technologies and topics related to aerial application.

Agriculture's Air Force: 100 Years of Aerial Application may well be NAAA's most enduring 100th anniversary initiative. One thing's for sure: It is no textbook. The commemorative book is written from a fresh perspective that is entertaining and enlightening. Readers will come away with a new appreciation for agricultural aviation as a profession and the dedicated individuals who propel it forward.

Order Your Copy of Agriculture's Air Force Today!

Agriculture's Air Force retails for \$45, excluding shipping. Order it from **[AgAir Update's Online Store](#)**.