



34th Annual

FY 2022

DOI Aviation Safety Summary and Annual Report

<https://www.doi.gov/aviation/safety>

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Partnering for better, faster, cheaper, safer aviation missions.

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INTRODUCTION



01



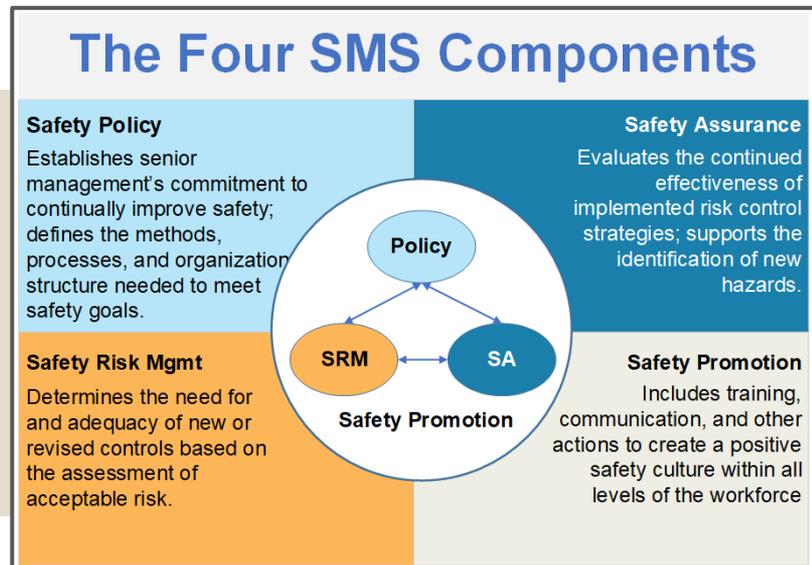
OUR PROGRAM

Stress Test – Are You Ready?

The inevitable departure of the baby boom generation is squarely upon us and with that comes opportunities as well as some significant challenges. Many of those vacancies that result from these departures/retirements will provide an opportunity for many to move up or lateral to other jobs vacated by those retiring. These openings extend from management to entry level positions. A great time for advancement or job enrichment for many. Unfortunately, there remains a downside to this situation as those fulfilling new roles could lack the experience of their predecessors. “Experience” can be defined as “practical knowledge, skill, or practice derived from direct observation of or participation in events or in a particular activity”. Experience is one attribute that remains critically important within high-risk operations such as aviation. Inexperience could set the stage for many to relearn some very hard lessons resulting in damage or fatalities. Mitigation strategies such as training, risk management activities, managing expectations, and proper oversight are essential to mitigating the hazards that are inherent within a less experienced workforce.

In order for employees to perform their jobs safely and effectively, viable communication channels must be opened and maintained to ensure personnel can readily access information they need it and to report to managers when they need help. Without it, they are set up to fail...and in a catastrophic manner.

It is incumbent upon all of us to ensure our history does not repeat itself.



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OAS POINTS OF CONTACT



AVIATION OVERVIEW



02



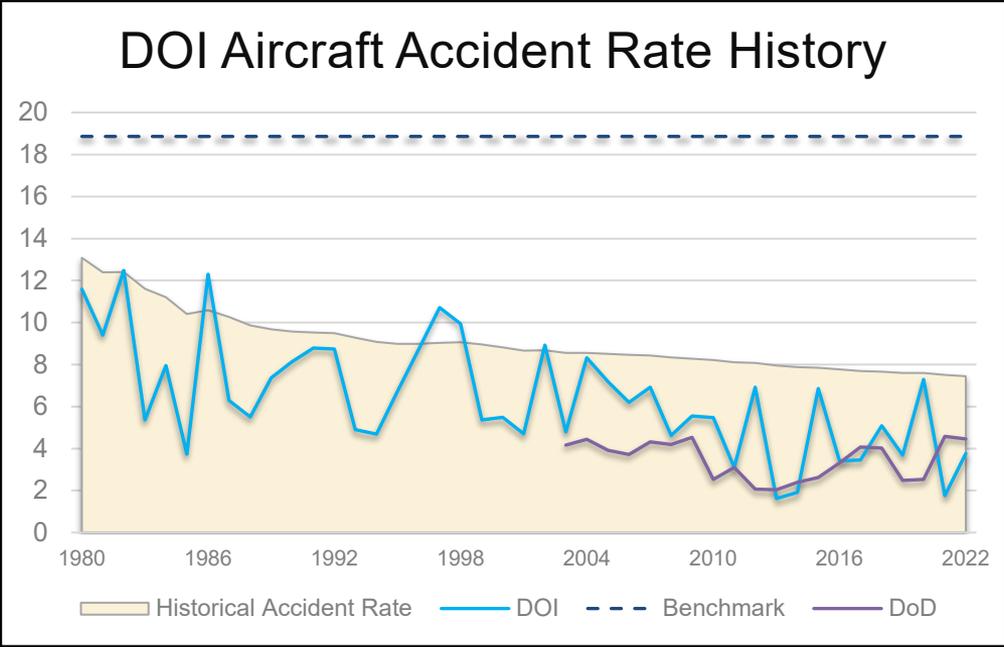
AIRCRAFT ACCIDENT RATE HISTORY

FY 76-22

Total Losses Avoided
\$1.2 Billion

Unbudgeted Costs
\$536 Million

FY22 Accident Rate
3.77



In 1975, the Department of the Interior recorded its first annual aircraft accident rate, as well as its first historical accident rate per 100,000 flight hours. The rate was 18.87 and has become the benchmark used to compare DOI safety performance.



FY22 MISHAP OVERVIEW

Date	Type	Location	Agency	Aircraft	Description
07/14/2022	Accident	Port Alsworth, AK	NPS	Piper PA-18 Super Cub	A National Park Service (NPS) contracted Piper Super Cub sustained substantial damage while landing on an off-airport, unimproved site. The mission was to install a sound monitoring station in a remote location
06/06/2022	IWP	Kavik, AK	BLM, FWS, NPS	Cessna A185F	Aircraft suffered extensive damage to propeller during multi-day, multi-agency resource reconnaissance flight.
11/18/2021	IWP	Wikieup, AZ	BLM	Bell 206 L4	Aircraft experienced a Transmission Chip caution light with a loss of transmission oil pressure. The pilot performed a precautionary landing and landed without further incident.
11/08/2021	Accident	Coal Creek Camp, AK	NPS	CC18-180 Top Cub	During landing on snow covered runway, pilot attempted to perform a “drag the wheels” maneuver followed by a go-around. Aircraft slowed abruptly and pitched over in an inverted position.



FY22 CREWED AIRCRAFT ACCIDENT RATE



DOI Total Flight Hours

Procurement Type	Hours	Percent of Hours Flown
Fleet	12,119.90	23%
Non-Fleet	40,876.60	77%
Total Flight Hours	52,996.50	

Approximately 6,766.85 hour decrease in total hours from FY21.

Crewed Aircraft

2

Accidents

2

Incident with Potential

4
Mishaps

Crewed Mishaps = Accidents + IWPs

Zero aircraft accidents is an attainable goal. We must meet and exceed expectations set for ourselves through training, safety guidelines, and safety tools. <https://www.iat.gov/>
<https://www.doi.gov/aviation/library/guides>

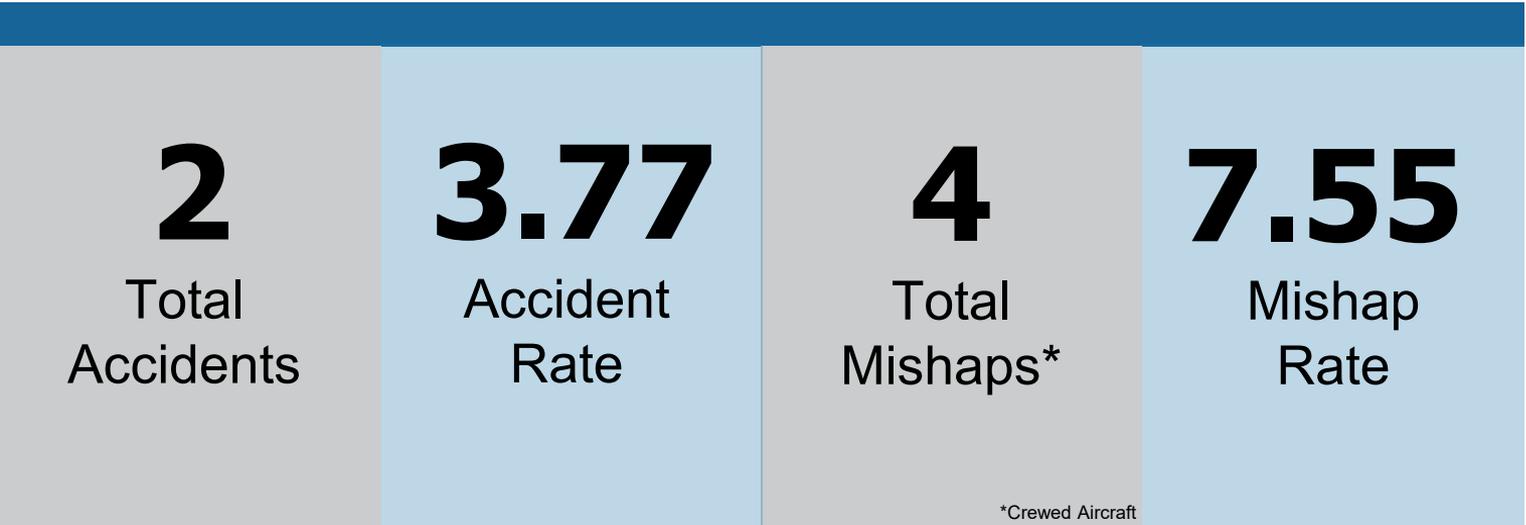
FY22 CREWED AIRCRAFT ACCIDENT RATE



*Value Statistical Life (VSL) \$12.5 million [Department of Transportation](#)

Cost Input	Cost
DOI Losses	\$390,180
Vendor Losses	~\$558,000
DOI sUAS Losses	~9,832.00
Fatalities (0) VSL*	N/A
Serious Injuries (0)	N/A
Minor Injuries (0)	N/A
Total	\$958,012

Incidental Costs Associated with Mishaps



*Crewed Aircraft

5-year Data Summary

Crewed Mishap Rate



8.54

Total Mishaps



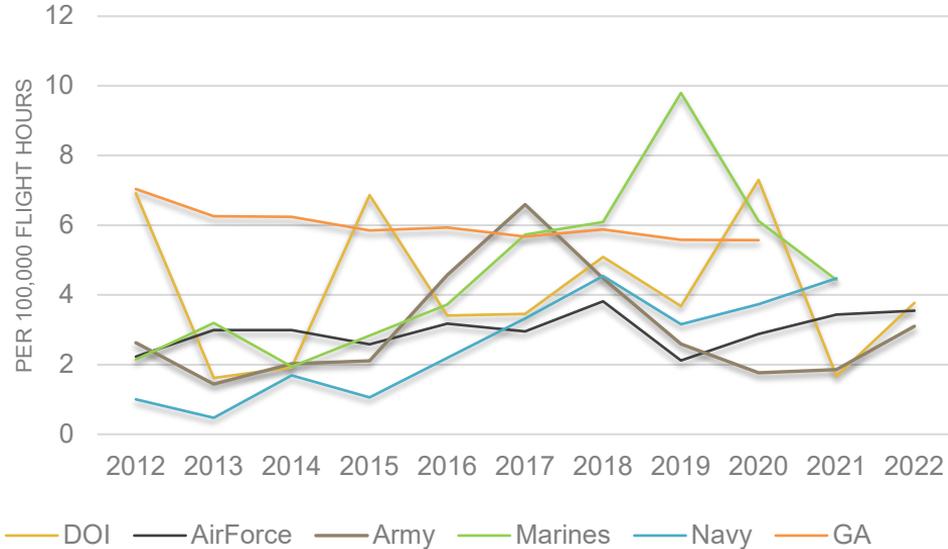
24

Total Hours



280,887

Crewed Aircraft Accident Rate Comparison



AIRCRAFT ACCIDENT RATE COMPARISON



ANNUAL FLIGHT USAGE STATISTICS – Fleet and Non-Fleet Crewed Aircraft

ANNUAL FLIGHT USAGE STATISTICS

Procurement Type	Flight Hours	FY21 Percent Difference	Flight Usage Cost	FY21 Percent Difference	Cost per Flight Hour
Fleet					
Fixed-wing	10,954.00	4.61%	\$4,179,172.00	8.03%	\$381.52
Rotor wing	1,165.90	-35.30%	\$2,557,530.60	-21.98%	\$2,193.61
Total	12,119.90	-1.25%	\$6,736,702.60	-5.74%	\$555.84
Non-Fleet					
Fixed-wing	18,877.87	-21.64%	\$41,835,881.59	-24.37%	\$2,216.13
Rotor wing	15,795.72	-31.53%	\$24,835,069.14	-29.15	\$1,572.27
Other	6,203.01	1769.50%	\$11,135,048.83	2600.51%	\$1,795.10
Total	40,878.60	-13.93%	\$77,805,999.56	-14.29%	\$1,903.44
Grand Total	52,996.50	-11.32%	\$84,542,702.16	-13.67%	\$1,595.25

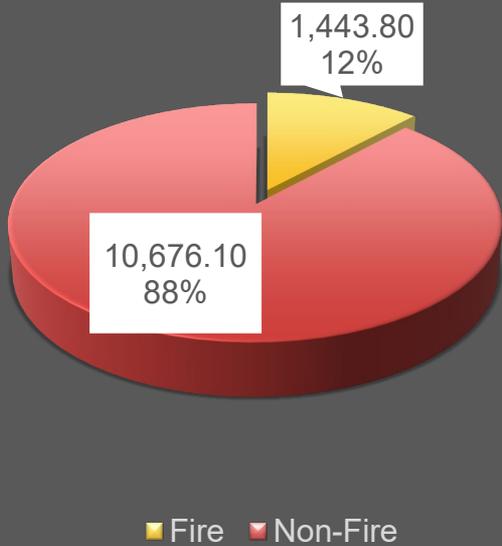


ANNUAL FLIGHT USAGE STATISTICS – Fire and Non-Fire Missions

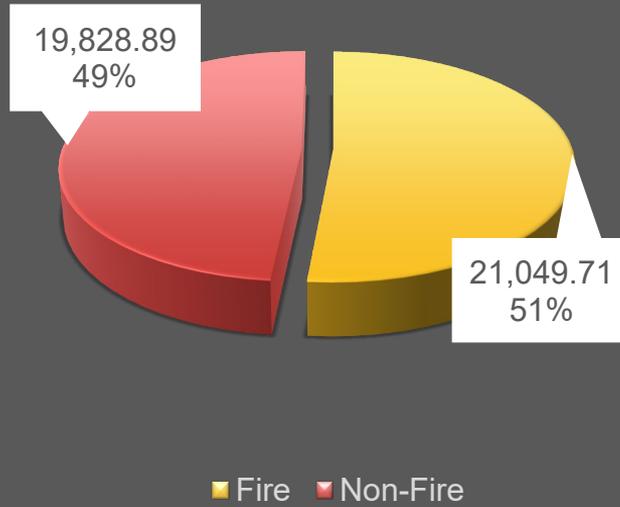
ANNUAL FLIGHT USAGE STATISTICS



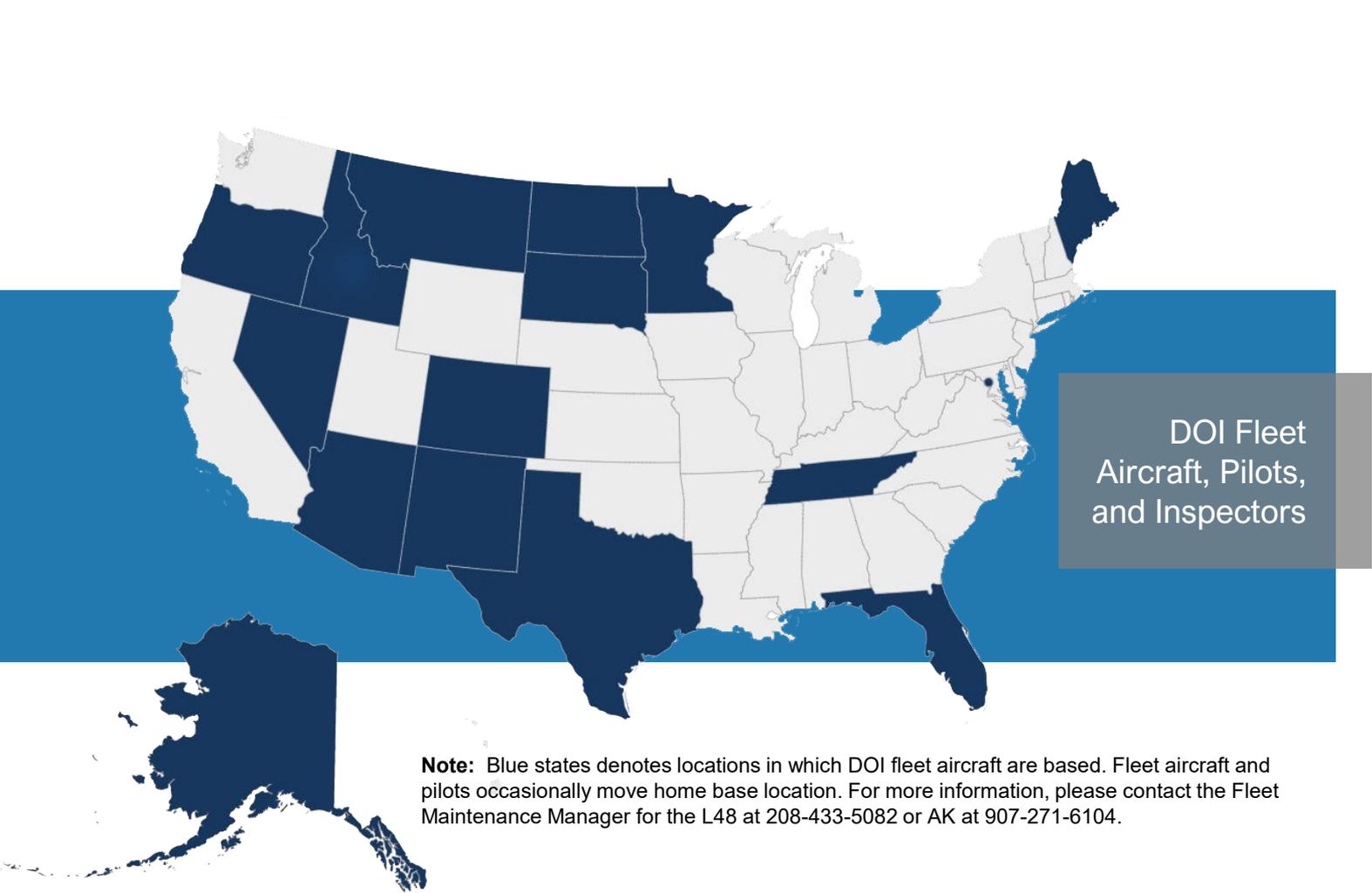
Fleet Flight Hours



Non-Fleet Flight Hours



OUR LOCATIONS



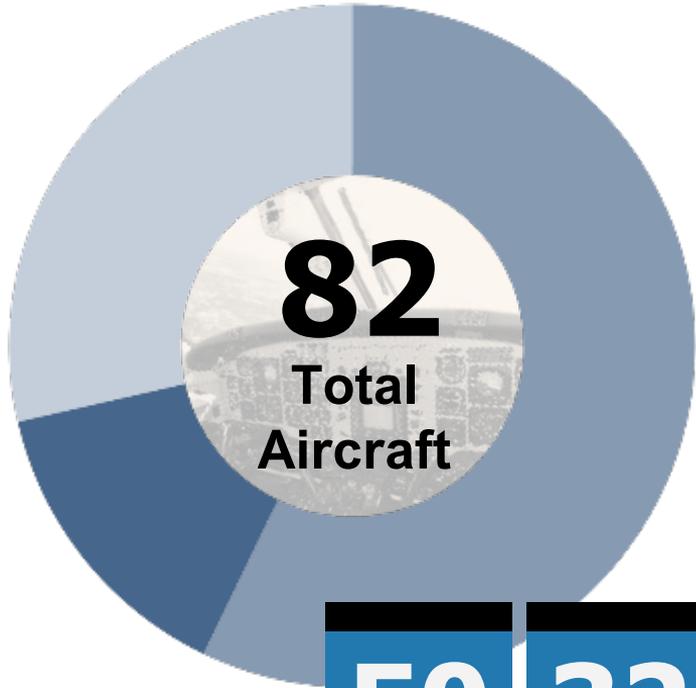
DOI Fleet
Aircraft, Pilots,
and Inspectors

Note: Blue states denotes locations in which DOI fleet aircraft are based. Fleet aircraft and pilots occasionally move home base location. For more information, please contact the Fleet Maintenance Manager for the L48 at 208-433-5082 or AK at 907-271-6104.



FLEET INVENTORY

Aircraft Type	#	Aircraft Type	#
Airbus AS350 B2	1	CubCrafters CC-18	21
Beechcraft B200 King Air	2	DeHavilland DHC-6 Twin Otter	1
Bell 206BIII	1	DeHavilland DHC-2	2
Bell 206LIII	2	Found FBA-2C2	6
Bell 412EP	2	Partenavia P68	1
Cessna C-182	2	Pilatus PC 12/45	1
Cessna C-185	10	Piper PA-18	1
Cessna C-206	21	Quest Kodiak 100	8



50
Alaska

32
Lower
48

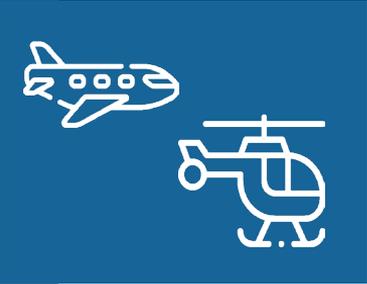


Aircraft by Bureau

	BLM	FWS	NPS	OAS	Total
Fixed Wing	7	46	23	---	77
Rotor Wing	---	1	4	1	5
Total	7	47	27	1	82

Aircraft by OAS Region

	Alaska	Western	Eastern	Total
Fixed Wing	49	12	15	76
Rotor Wing	---	1	5	6
Total	49	13	20	82



Number of Pilots

68

Fixed-wing

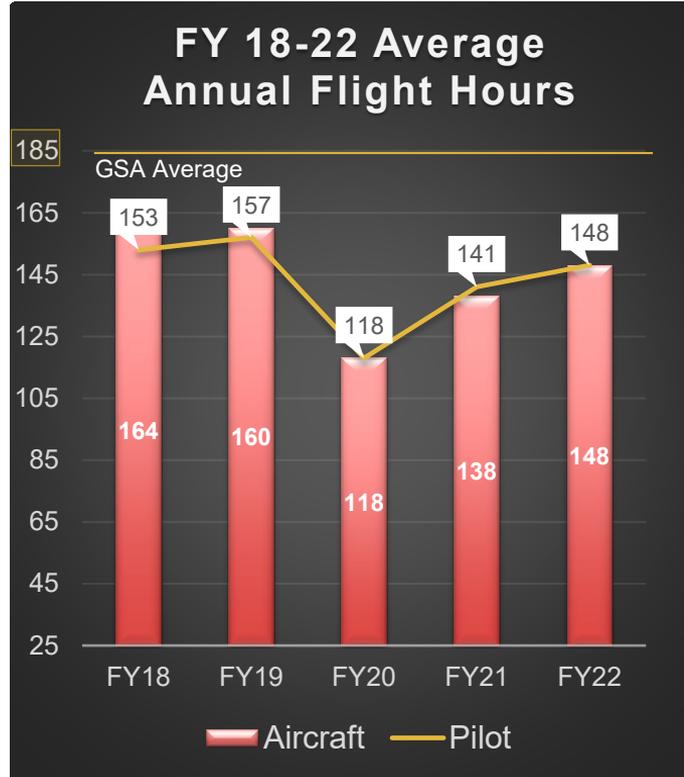
12

Rotor wing

2

Dual (FW/RW)

82
Total



Fleet pilot and fleet aircraft averages were 7% and 5% above FY21, respectively.

PILOT INVENTORY



PILOT DATA

Pilots by Bureau

	BLM	FWS	NPS	OAS	USFS	Total
Fixed-wing	11	35	16	5	1	68
Rotor wing	---	---	8	4	---	12
Dual (FW/RW)	---	---	---	2	---	2
Total	11	35	24	11	1	82

Pilots by OAS Region

	Alaska	Western	Eastern	HQ	Total
Fixed-wing	40	16	10	2	68
Rotor wing	1	2	8	1	12
Dual (FW/RW)	---	1	1	---	2
Total	41	19	19	3	82



By the Numbers

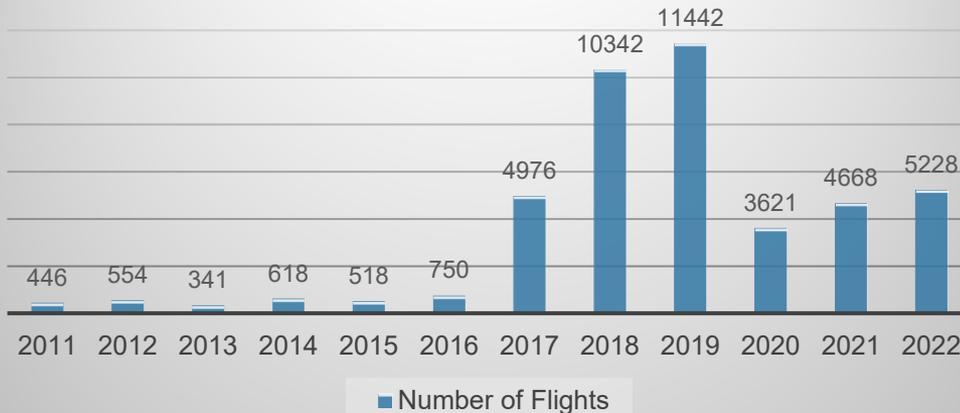
459

sUAS Fleet Pilots

778

sUAS Fleet Aircraft

sUAS Fleet Flights



**FLEET UNCREWED
AIRCRAFT SYSTEMS (sUAS)**

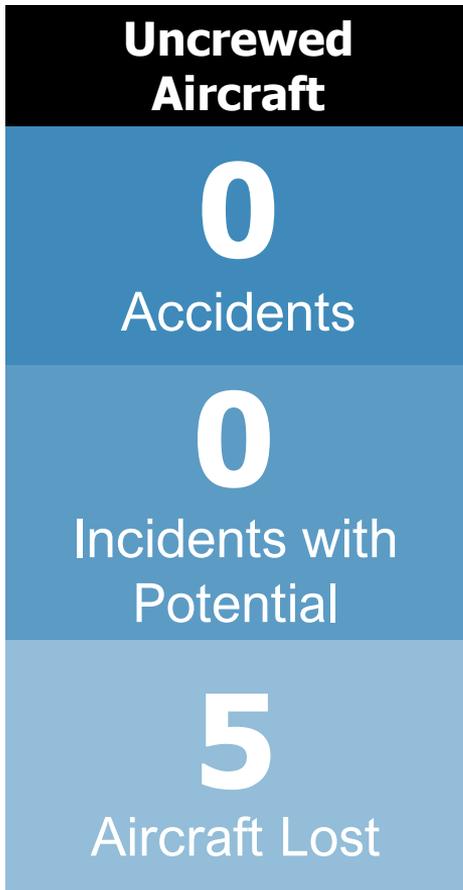


FY22 UNCREWED AIRCRAFT ACCIDENT RATE



Procurement Type	Flight Count	Percentage of Flights
Fleet	5,228	98%
Non-Fleet	3	2%
Total Flight Count		5,231

Approximately 546 increase in total flight count from FY21.



9.56 FY22 sUAS Mishap Rate

5-year Data Summary

sUAS Mishap Rate



6.79

Total Mishaps



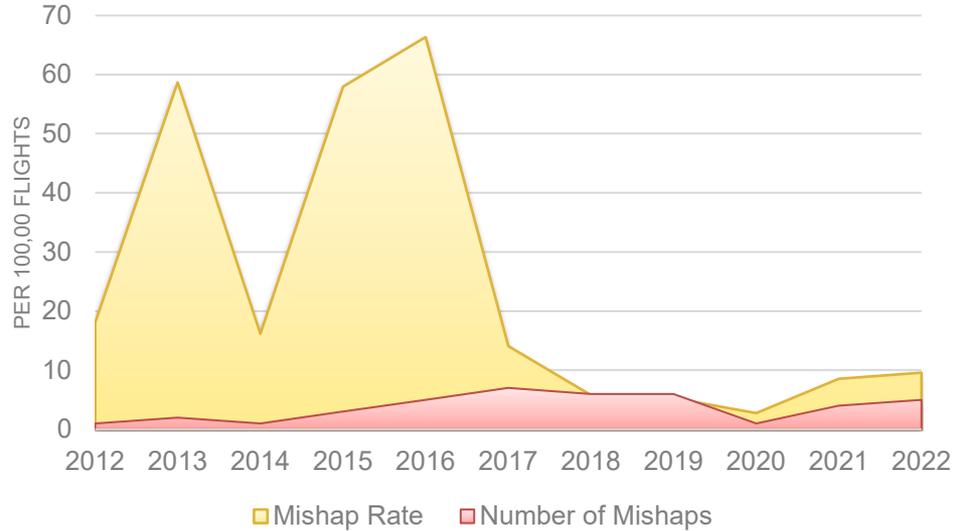
22

Total Flights



35,301

sUAS Mishap & Mishap Rate Comparison

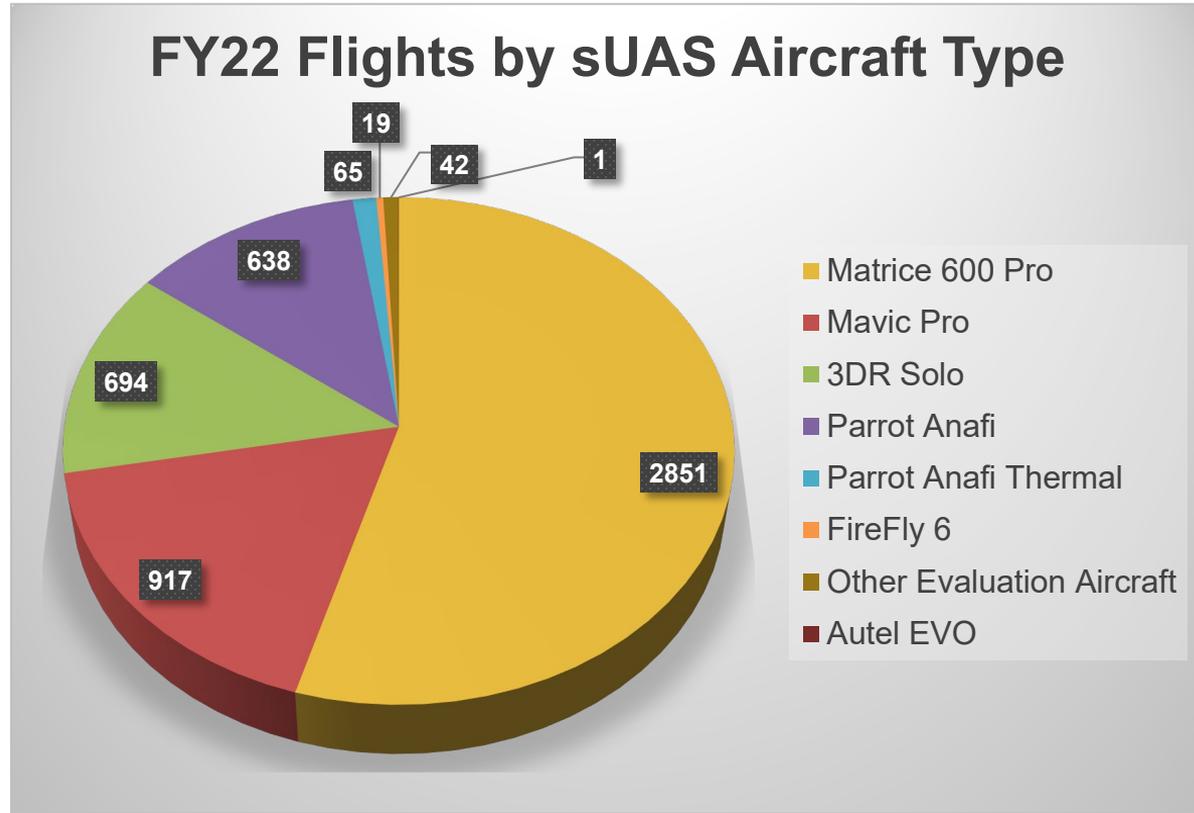


sUAS Mishaps = Accidents + IWPs + Aircraft Losses

SUAS ACCIDENT RATE COMPARISON



Aircraft Type	#
Anafi	146
Anafi Thermal	30
Apprentice S 15E	2
EVO	5
FireFly6 Pro	24
H10	1
Loki	2
Matrice 600 Pro	78
Mavic Duel	2
Mavic Pro	80
R1	1
Site Scan	32
3DR Solo	375
Total	778

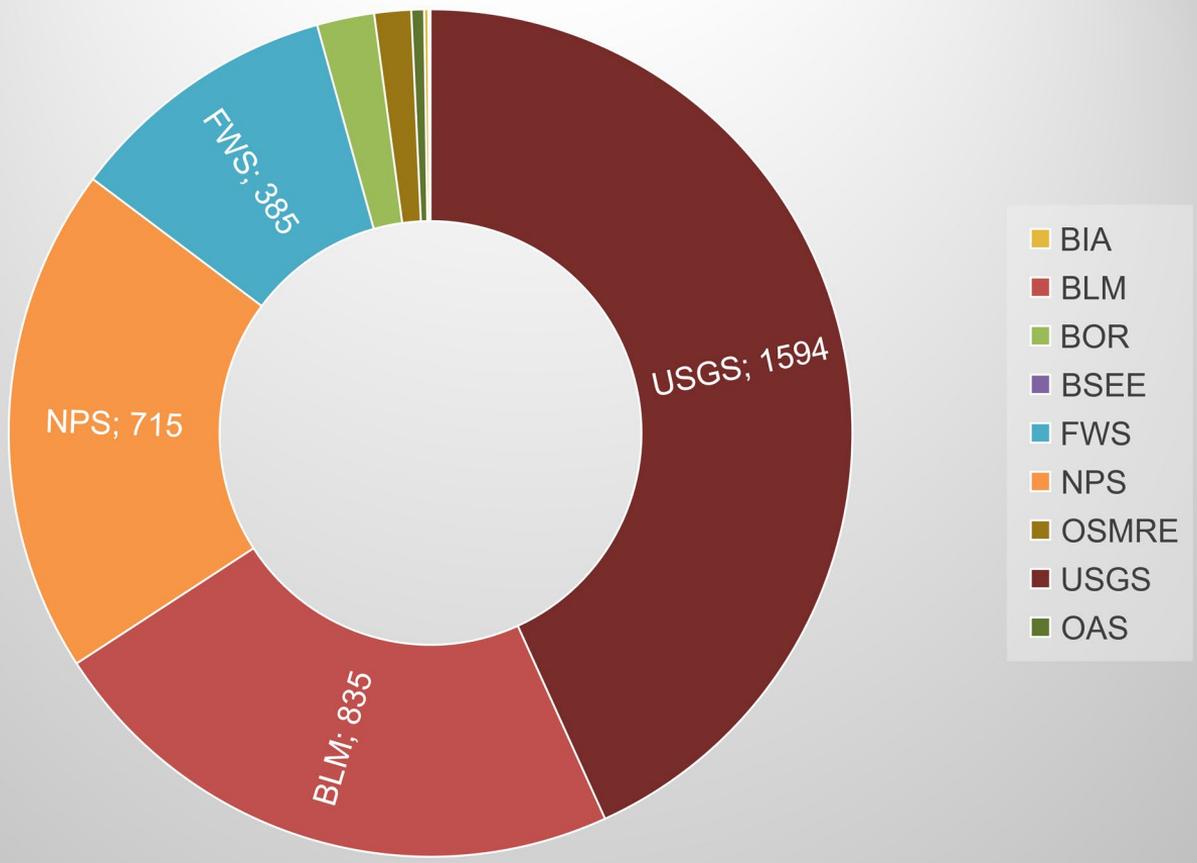


sUAS FLEET INVENTORY



FY22 sUAS FLEET ACTIVITY

FY 22 sUAS Fleet Flights per Bureau





DO NOT STOP ANYTHING
UNDER THIS SEAT.

FY22 Bureau Overview

High level analysis of aviation safety and performance statistics that have been extracted from various databases.





Bureau of Indian Affairs

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	1,455.25	\$2,492,548.65	\$1,712.80
Fleet	---	---	---

0
Fleet Missions

885
Non-Fleet Missions



Top 3 Categories:
Hazards, Maintenance, and Incident.

Submission Breakdown:
0% sUAS
100% Crewed

Total Reported	20
Remaining Open	0
Completion Rate	100%

Reporting Rates*

*Percent difference FY21 to FY22

77%
Crewed

-100%
sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	9
sUAS Pilots	5

6 sUAS Flights

Top Categories: Training & Proficiency.

Aircraft Used: Matrice 600 Pro, Mavic Pro

FY22 BUREAU OVERVIEW





Bureau of Land Management

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	22,419.38	\$49,903,761.81	\$2,225.92
Fleet	1,264.10	\$1,414,966.50	\$1,119.34

552
Fleet Missions

8017
Non-Fleet Missions



Total Reported	83
Remaining Open	1
Completion Rate	99%

Top 3 Categories:
Hazards, Maintenance, and Incident.

Submission Breakdown:
3% sUAS
97% Crewed

Reporting Rates*

*Percent difference FY21 to FY22

-22%
Crewed

517%
sUAS

Fleet Statistics	#
Crewed Aircraft	7
Pilots	11
Uncrewed Aircraft	215
sUAS Pilots	82

835 sUAS Flights

Top Categories: Training & Proficiency, Aerial Ignition, and Monitoring/Inspection.

Aircraft Used: Matrice 600 Pro, Mavic Pro, Parrot Anafi.

FY22 BUREAU OVERVIEW



BOEM Bureau of Ocean Energy Management

Bureau of Ocean Energy Management

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	6.5	\$7,150.00	\$1,100.00
Fleet	29.9	\$36,153.50	\$1,209.15

14
Fleet Missions

8
Non-Fleet Missions



Top 3 Categories:
N/A.

Submission Breakdown:
0% sUAS
0% Crewed

Total Reported	0
Remaining Open	0
Completion Rate	N/A

Reporting Rates*

*Percent difference FY21 to FY22

Unchanged Crewed

Unchanged sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	0
sUAS Pilots	0

0 sUAS Flights

Top Categories: N/A

Aircraft Used: N/A

FY22 BUREAU OVERVIEW





Bureau of Reclamation

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	18.93	\$38,977.26	\$2,058.70
Fleet	---	---	---

0
Fleet Missions

14
Non-Fleet Missions



Top 3 Categories:
N/A.

Submission Breakdown:
0% sUAS
0% Crewed

Total Reported	0
Remaining Open	0
Completion Rate	N/A

Reporting Rates*

*Percent difference FY21 to FY22

Unchanged
Crewed

Unchanged
sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	51
sUAS Pilots	18

81 sUAS
Flights

Top Categories: Training & Proficiency, Monitoring/Inspection.

Aircraft Used: 3DR Solo, Parrot Anafi.

FY22 BUREAU OVERVIEW





Bureau of Safety & Environmental Enforcement

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	5,352.60	\$7,186,199.80	\$1,342.60
Fleet	---	---	---

0
Fleet Missions

506
Non-Fleet Missions



Total Reported	143
Remaining Open	0
Completion Rate	100%

Top 3 Categories:
Hazards, Maintenance, and Incident.

Submission Breakdown:
0% sUAS
100% Crewed

Reporting Rates*

*Percent difference FY21 to FY22

-6%
Crewed

Unchanged
sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	0
sUAS Pilots	0

3 sUAS Flights

Top Categories: Training & Proficiency.

Aircraft Used: Mavic Pro.

FY22 BUREAU OVERVIEW





U.S. Fish and Wildlife Service

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	1,117.12	\$1,281,236.61	\$1,146.92
Fleet	6,326.00	\$1,912,352.00	\$302.30

1906
Fleet Missions

377
Non-Fleet Missions



Top 3 Categories:
Hazards, Maintenance, and Incident.

Submission Breakdown:
0% sUAS
100% Crewed

Total Reported	11
Remaining Open	0
Completion Rate	100%

Reporting Rates*

*Percent difference FY21 to FY22

-35%
Crewed

-100%
sUAS

Fleet Statistics	#
Crewed Aircraft	47
Pilots	35
Uncrewed Aircraft	158
sUAS Pilots	33

385 sUAS Flights

Top Categories: Training & Proficiency, Mapping, and Monitoring/Inspection.

Aircraft Used: Matrice 600 Pro, Mavic Pro, Parrot Anafi.

FY22 BUREAU OVERVIEW





National Park Service

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	5,483.13	\$7,909,558.49	\$1,442.53
Fleet	3,454.50	\$1,833,538.50	\$530.77

1527
Fleet Missions

2954
Non-Fleet Missions



Top 3 Categories:
Hazards, Maintenance, and Incident.

Submission Breakdown:
17% sUAS
83% Crewed

Total Reported	46
Remaining Open	11
Completion Rate	76%

Reporting Rates*

*Percent difference FY21 to FY22

112%
Crewed

30%
sUAS

Fleet Statistics	#
Crewed Aircraft	24
Pilots	17
Uncrewed Aircraft	72
sUAS Pilots	45

715 sUAS Flights

Top Categories: Aerial Ignition, Mapping, and Training & Proficiency.

Aircraft Used: Matrice 600 Pro, Parrot Anafi, Mavic Pro.

FY22 BUREAU OVERVIEW





Office of Surface Mining Reclamation & Enforcement

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	0	\$0	\$0
Fleet	---	---	---

0
Fleet Missions

0
Non-Fleet Missions

SAFECOM Aviation Safety Communique	
Total Reported	1
Remaining Open	1
Completion Rate	0%

Top 3 Categories: Incident, Maintenance, and UAS.

Submission Breakdown:
100% sUAS
0% Crewed

Reporting Rates*

*Percent difference FY21 to FY22

-100%
Crewed

-63%
sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	34
sUAS Pilots	13

52 sUAS Flights

Top Categories: Training & Proficiency, Mapping, and Monitoring/Inspection.

Aircraft Used: 3DR Solo, Parrot Anafi.

FY22 BUREAU OVERVIEW



Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
NonFleet	1,324.30	\$1,359,907.59	\$1,026.90
Fleet	12.10	\$4,071.00	\$336.45

4
Fleet Missions

608
Non-Fleet Missions



Top 3 Categories:
Incident, Maintenance, and Hazard.

Submission Breakdown:
92% sUAS
8% Crewed

Total Reported	12
Remaining Open	7
Completion Rate	42%

Reporting Rates*

*Percent difference FY21 to FY22

-93%
Crewed

-44%
sUAS

Fleet Statistics	#
Crewed Aircraft	0
Pilots	0
Uncrewed Aircraft	200
sUAS Pilots	80

1594 sUAS Flights

Top Categories: Training & Proficiency, Mapping, and Monitoring/Inspection.

Aircraft Used: 3DR Solo, Matrice 600 Pro, Mavic Pro.

FY22 BUREAU OVERVIEW





Office of Aviation Services

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	33	\$37,530.90	\$1,137.30
Fleet	421.40	\$196,486.00	\$466.27

303
Fleet Missions

17
Non-Fleet Missions



Top 3 Categories: Maintenance, Hazard, and Incident.

Submission Breakdown:
17% sUAS
83% Crewed

Total Reported	6
Remaining Open	4
Completion Rate	33%

Reporting Rates*

*Percent difference FY21 to FY22

32%
Crewed

Unchanged
sUAS

Fleet Statistics	#
Crewed Aircraft	1
Pilots	11
Uncrewed Aircraft	38
sUAS Pilots	10

18 sUAS Flights

Top Categories: Training & Proficiency.

Aircraft Used: Matrice 600 Pro.

FY22 BUREAU OVERVIEW



POLICY & ASSURANCE



03



PERFORMANCE



Performance	Quantity
Operational Procedures Memoranda (OPM) Revisions	9
Program Evaluations Completed	7
sUAS Aircraft Inspections Completed (Fleet Only)	30
sUAS Operator Inspections Completed	24
Point to Point Inspections	177
Student Hours of IAT Training Completed	173,259
Technical Specifications for Procurement Reviewed*	51

*Includes Solicitation Reviews

Performance	Quantity
Commercial Aircraft Inspections	980
Commercial Pilot Evaluations	1,474
Cooperator Approvals	99
Elevated SAFECOMs Completed	8
Fuel Service Vehicle Inspections	320
Fleet Aircraft Inspections	104
Fleet Pilot Evaluations	239
Interagency Safety Communications Issued	17

GENERAL OVERVIEW



TRAINING BRANCH UPDATE



In FY22, the impact from COVID-19 began to lessen and through risk analysis and mitigations we were able to provide an increased number of in-person trainings and instructor evaluations. The lessons learned regarding timing and demand for webinars were brought forward into FY22 as we continued to provide an increased number of webinars with a record number of student completions. The OAS TB continued to improve the user experience and functionality of the IAT system through improvements to class offerings allowing instructors to target their offering to specific agencies/regions/units. Other improvements to the site included reminder emails sent to students monthly prompting them to complete required training.



<https://www.iat.gov>

At-A-Glance

41,177

Online Courses
Taken

5,639

Classroom Courses
Taken*

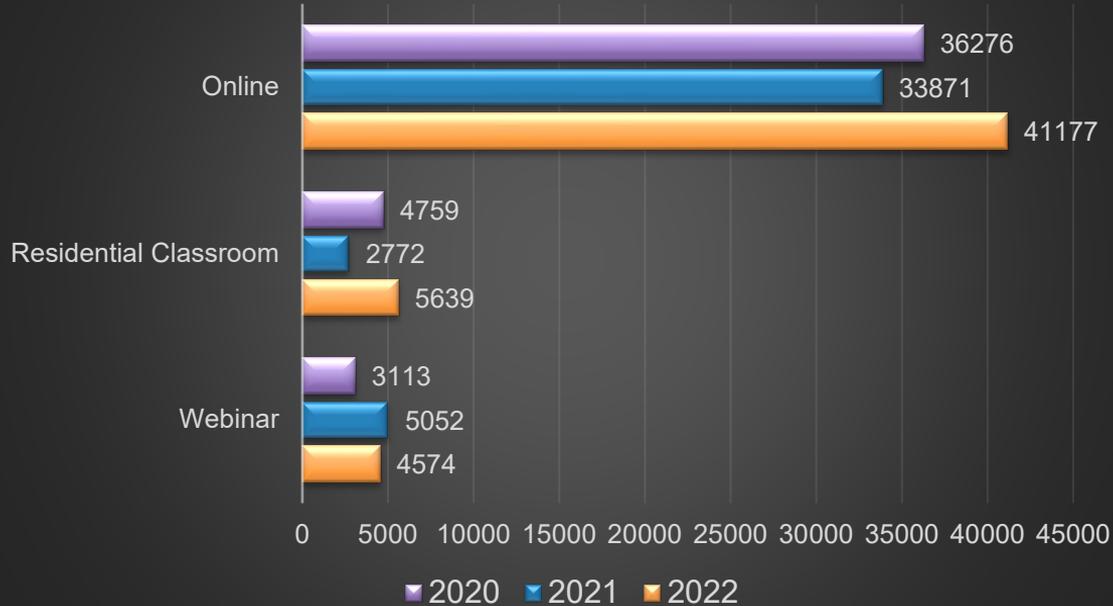
4,574

Webinars Offered

* Includes RTs and Workshops

TRAINING BRANCH UPDATE

IAT Completions



Revised Courses
A-115, Automated Flight Following (AFF)
and
A-202, Interagency Aviation Organizations

51,390 FY 22
Course
Completions



AVIATION PROGRAM EVALUATION

Aviation program evaluations are an essential means of providing feedback related to the operations, process, and outcomes of aviation programs with a focus on program enhancement. This quality assurance system assesses aviation safety, ensures efficiency, and provides a means for sharing best practices.

Top 5 Findings for FY17-21

ALSE Inspection and Tracking Inadequate

Management Plans Out of Date

Mishap Response Plan – Not Tested

Multiple Positions/Levels of Non-Compliance w/Training Requirements

PASP – Not Completed Correctly



AVIATION PROGRAM EVALUATION

Top 5 Best Practices for FY17-21

- 1) Utilization of tiered management plans as a means of ensuring National, Regional/State, and Unit Aviation Management Plans are aligned, while reducing repetition within multiple documents.
- 2) ALSE inspection and tracking program in place, facilitating consistent compliance with ALSE Handbook requirements.
- 3) M-3 training included in consolidated management meetings to ensure Line Managers and Supervisors meet OPM-04 requirements.
- 4) Aviation Mishap Response Plan exercised annually to prepare personnel and improve overall responses.
- 5) Aviation Managers and Procurement Specialists proactive communication regarding end-product contracts to ensure OPM-35 compliance.



AMRB Update

2

AMRB
Conducted

13

AMRB
Recommendations

5

Recommendations
Completed



AMRB recommendations result from accidents that have claimed lives, caused injuries, and/or resulted in significant damages and are a bureau-led process with the goal of preventing similar mishaps from occurring again in the future.

DOI Bureaus and the Office of Aviation Services continue efforts towards closing open Aircraft Mishap Review Board (AMRB) recommendations.

AVIATION MISHAP REVIEW BOARD



Safety & Evaluation Changes

Adjusted Adjectival Rating Thresholds

Updated SMS Questionnaire

Updated FAA and IS-BAO Standards

Aviation Safety Management System (SMS) is an approach to managing aviation safety that includes the formal, top-down, business-like approach to managing and reducing risk, which includes a systemic approach to managing safety, including the necessary organizational structures, accountabilities, policies, and procedures. SMS is an evolutionary development in aviation safety as it creates structured, repeatable, and proactive systems that can reduce aviation risk to the Non-Fleet and/or the government employees that use their services. Completed SSEBs were an evaluation of offeror's response to an SMS questionnaire.

15

SSEB Completions

12

Solicitation Reviews

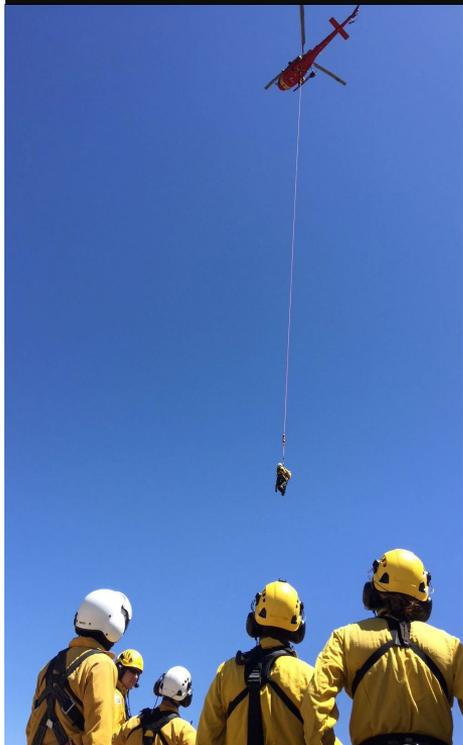
7

SMS Vendor Onsite Visits

**SOURCE SELECTION
EVALUATION BOARD (SSEB)**



At-A-Glance



Aviation Safety Management System (SMS) Success Stories

- 1) Multiple operators progressing from no SMS, to initial SMS manual.
- 2) Vendor making changes to their Operations Manual and SMS Manual based on site visit.
- 3) Successful demonstration of SMS capability from multiple Alaska-based vendors.
- 4) Identification of stagnant contractors and vendors.

For more information:

Contact: Josh Haney at
joshua_haney@ios.doi.gov or 208-433-5012

ENHANCING SAFETY



RISK MANAGEMENT



04





Using the SAFECOM system for punitive action is prohibited (352 DM 3.10B).

Submitting SAFECOM is **not** a substitute for “on-the-spot” correction(s) to a safety concern. It is a tool used to identify, document, track, and correct safety related issues.

A SAFECOM does not replace the requirement for initiating an accident or incident report.

37%
Of Total
Submitted by
DOI



*DOI, USFS, States, & Cooperators

SAFECOM OVERVIEW



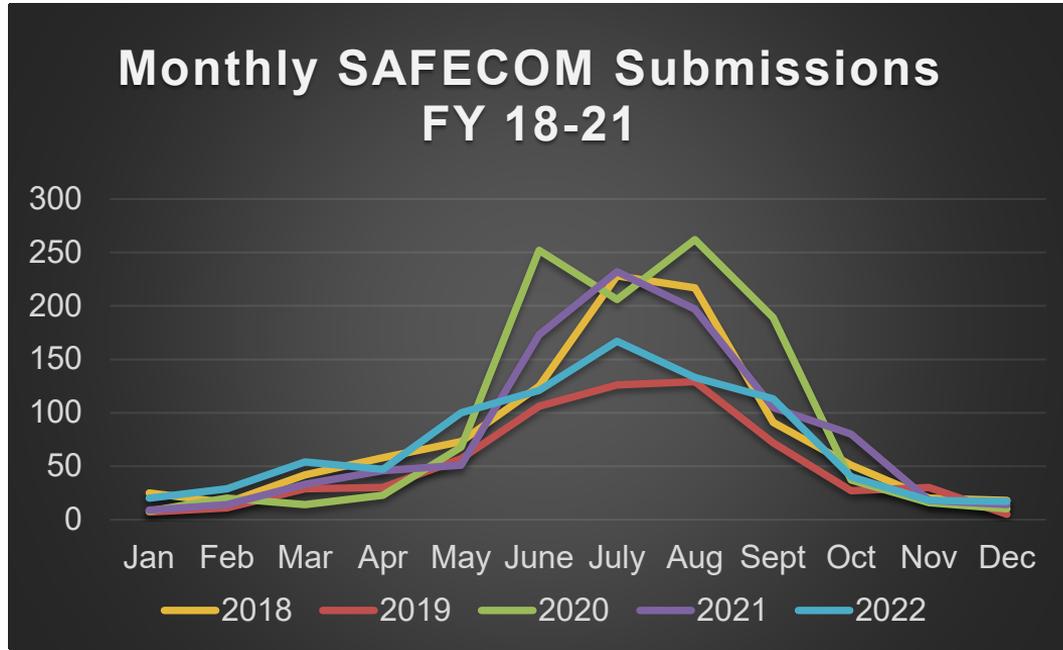


FY 22 Percentage Submission By Bureau*

Bureau	Percent
BIA	6%
BLM	25%
BOEM	0%
BOR	0%
BSEE	44%
FWS	3%
NPS	14%
OAS	2%
OSM	1%
USGS	4%

*Crewed & sUAS

Monthly SAFECOM Submissions FY 18-21



*All Agencies

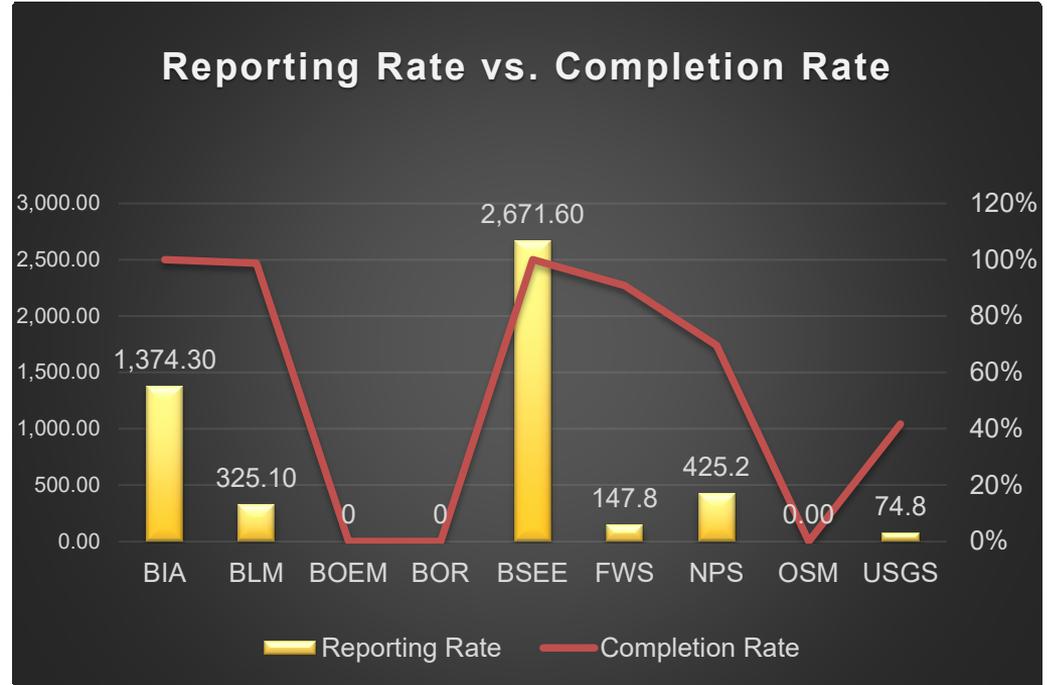
SAFECOM OVERVIEW



FY22 SAFECOM Reporting Rate vs. Completion Rate

Bureau	Reporting Rate*	Completion Rate
BIA	1,374.3	100%
BLM	325.1	99%
BOEM	0	0%
BOR	0	0%
BSEE	2,671.6	100%
FWS	147.8	91%
NPS	425.2	70%
OSM	0	0%
USGS	74.8	42%

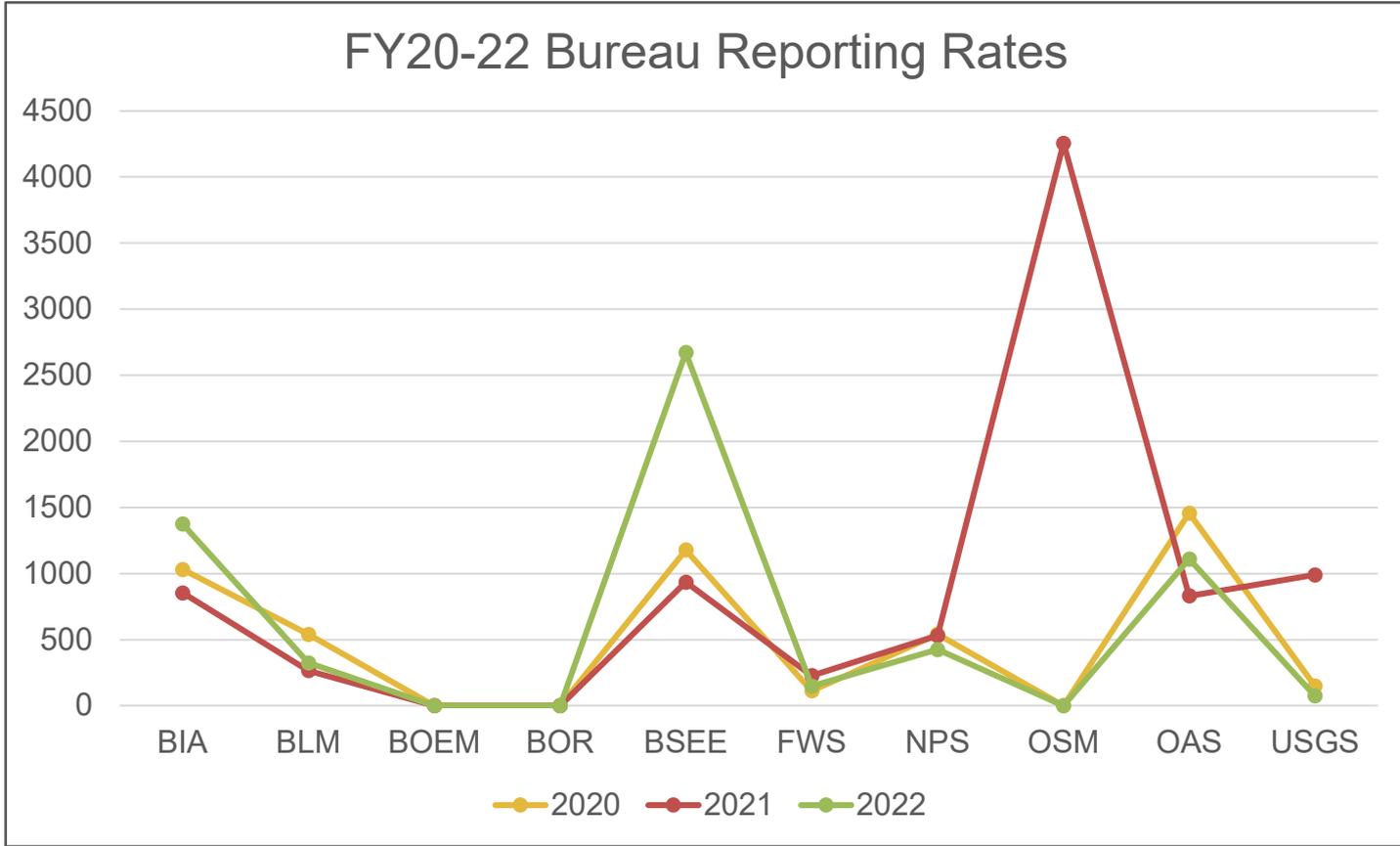
*Per 100,000 flight hours



SAFECOM OVERVIEW

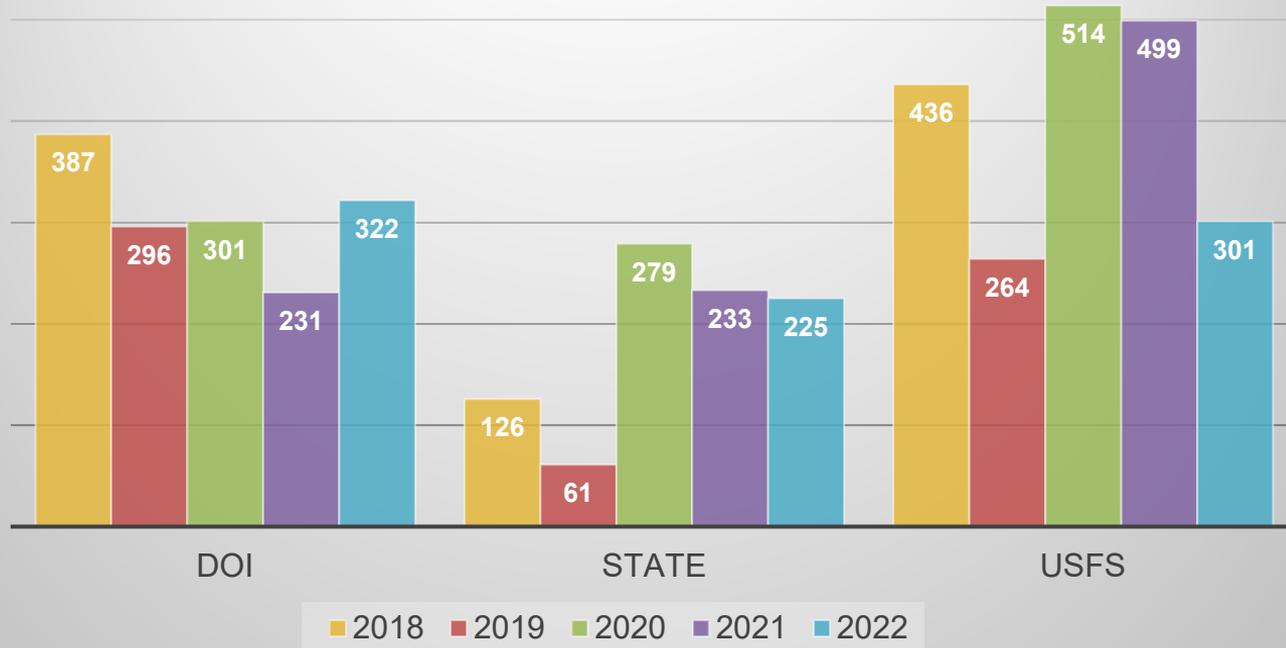


SAFEKOM OVERVIEW



SAFECOM OVERVIEW

FY18-22 SAFECOMs REPORTED





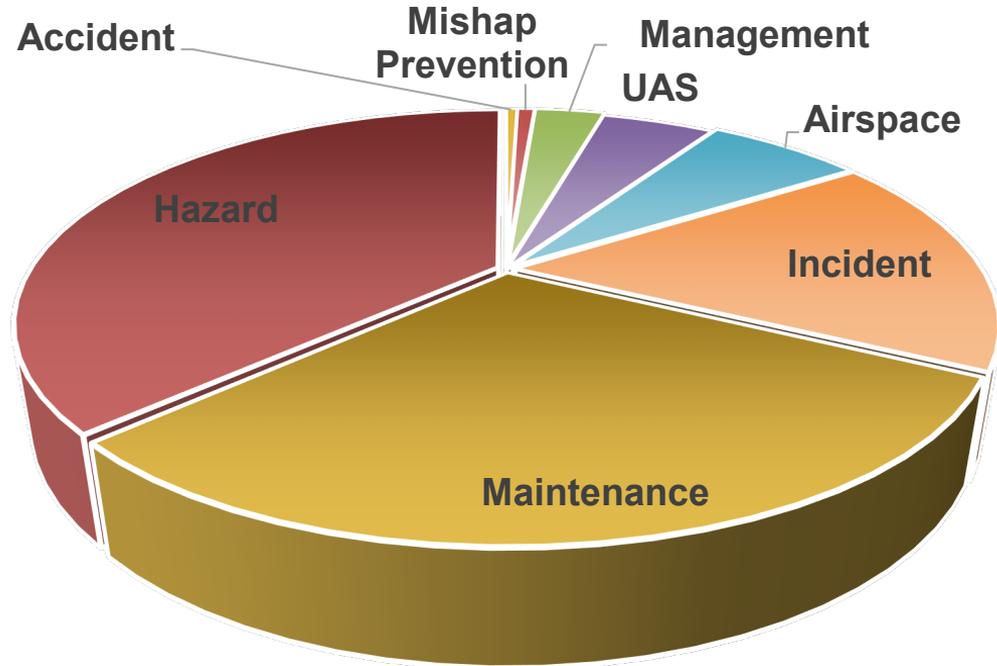
Maintenance

- Engine
- Electrical
- Airframe
- Chip Light
- Landing Gear
- Instrument
- Fuel
- Avionics
- Mission Equip.
- Oil & Other

Hazard

- Pilot Action
- Communications
- Policy Deviation
- Mission Equip.
- Weather
- Comm (Verbal)
- Flight Equip.
- Preflight Action
- Comm (Other)

FY22 SAFECOM DISTRIBUTION BY CATEGORY



SAFECOM OVERVIEW



SAFETY PUBLICATIONS



1	7	1	6	2
IA SA	IA/DOI APB	IA LL	IA IB	IA TB

Publication Categories	Description
DOI & Interagency Safety Alert (IA SA)	Significant in nature and categorized as: operations, maintenance, and publications.
DOI & Interagency Accident Prevention Bulletin (IA APB)	General in nature with information regarding aircraft mishap prevention concepts, methods, procedures, and efforts.
DOI & Interagency Lessons Learned (IA LL)	General in nature and used to disseminate lessons learned from mishaps and subsequent investigations.
DOI & Interagency Information Bulletin (IA IB)	General in nature and used to disseminate announcements and information of general interest.



PUBLICATION UPDATES



Interagency Aviation Safety Alert

Publication Number	Title
IA SA 22-01	Esmet 3000 Pound Capacity Cargo Swivel

DOI Accident Prevention Bulletin

Publication Number	Title
DOI APB 22-01	Interagency Aviation Safety Training
DOI APB 22-02	SOLO UAS Battery Life

Interagency Accident Prevention Bulletin

Publication Number	Title
IA APB 22-01	FAA Release of AIR 21-18: Risk of Potential Adverse Affects on Radio Altimeters
IA APB 22-02	NWCG Equipment Technology Committee (ETC) Advisory 22-01, Inspection of 3,000lb Cargo Nets
IA APB 22-03	Defective Matrice 600 Flight Batteries
IA APB 22-04	Hypoxia in an Unpressurized Aircraft
IA APB 22-05	Unmanned Aircraft Systems (UAS) NOTAMs

Interagency Aviation Information Bulletin

Publication Number	Title
IA IB 22-01	Notices to Air Missions (NOTAM) Acronym Change
IA IB 22-02	Idaho Airtanker Base Construction
IA IB 22-03	Hill Airtanker Base Fueling
IA IB 22-04	Clarification of NWCG Fire Traffic Area Diagram and FAA Temporary Flight Restrictions
IA IB 22-05	McCall Airport and Airtanker Base Repainting of Runway Markings
IA IB 22-06	Unmanned Aircraft Systems (UAS) Operations within Incident Temporary Flight Restrictions (TFRs)

Interagency Lessons Learned

Publication Number	Title
IA LL 22-01	Changing of the Seasons

Interagency Tech Bulletin

Publication Number	Title
IA TB 22-01	Malfunctioning Matrice 600 Propellers
IA TB 22-02	Interagency Fire Helicopter Mechanic Approval

PUBLICATION UPDATES



PROMOTION

05





	Award	Recipient(s)
	Departmental Award for Outstanding Contribution to Aviation Safety	Kirk Rothwell
  	Award for Significant Contribution to Aviation Safety	Albert "Patrick" Kearney Justin Josey Shad Sitz
	Safe Flying	Fred Goodwin Galen Howell Lynn Ellis Ryan Evasick Scott Sample
	In-Flight Action	Alvin (Scott) O'Brien Edward Clay Voss Jose (Joe) Trevino
 	Airward	Brian Little Daniel McWilliams Sheldon Danforth

In FY22, DOI awards increased by an average of 65% over the last three years.

AWARDS & ACHIEVEMENTS





Accident-Free Milestones

Bureau	Years
BIA	5
BLM	1
BOEM	11
BOR	25
BSEE	48
FWS	7
OSM	2
USGS	2

Bureau	National Aviation Manager	Phone
BIA	Dave Underwood (Acting)	505-562-3376
BLM	Glen Claypool	208-387-5182
BOEM	Richard Knowles	907-334-5268
BOR	David Rosser	208-433-5050
BSEE	Andrew Wareham	907-334-5278
FWS	Anthony Lascano	571-213-3021
NPS	John Buehler	208-387-5227
OSM	David Rosser	208-433-5050
USGS	Vacant	---

ACCIDENT MILESTONES AND BUREAU CONTACTS



EXECUTIVE SUMMARY



06





FY22 DOI Executive Summary

OAS provides aviation services to the Department of the Interior and other Federal, State and local government agencies. The OAS mission is "...to raise the safety standards, increase the efficiency and promote the economical operation of aircraft activities in the Department of the Interior."



DOI EXECUTIVE SUMMARY

Policy
2 – AMRBs completed 13 – AMRB recommendations issued 5 – Recommendations closed
Assurance
Best Practices Noted FY17-21 Top Findings FY17-21
Risk Management
37% of all SAFECOMs were initiated by DOI Bureaus.
Promotion
DOI had a 275% increase in Safety Awards & Achievements given from FY21.

Procurement Type	FY 22 Rate	FY 21 Rate	Percent Difference
Crewed Aircraft			
Mishap	7.55	5.02	50%
Accident	3.77	1.67	126%
5-Year	8.54	7.37	16%
Uncrewed Aircraft			
Mishap	9.56	4.38	118%
5-Year	6.79	6.07	12%

5-Year Data Summary

Type	Total	Mishaps
Crewed	280,887.24	24
Uncrewed	35,301 flights	22





FY22 DOI Executive Summary

Crewed Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Non-Fleet	40,876.60	\$77,805,999.56	\$1,903.44
Fleet	12,119.90	\$6,736,702.60	\$555.84

4,596
Fleet Missions

14,872
Non-Fleet Missions



Top 3 Categories: Maintenance, Hazard, and Incident.

Submission Breakdown:
8% sUAS
92% Crewed

Total Reported	322
Remaining Open	28
Completion Rate	91%

Reporting Rates*

*Percent difference FY21 to FY22

2%
Crewed

-17%
sUAS

Fleet Statistics	Bureau Total
Crewed Aircraft	82
Pilots	82
Uncrewed Aircraft	778
sUAS Pilots	474

5,227 sUAS Flights

Top Categories: Training & Proficiency, Mapping, and Monitoring/Inspection.

Aircraft Used: Matrice 600 Pro, Mavic Pro, Parrott Anafi.

DOI EXECUTIVE SUMMARY

