

^{32nd} Annual **FY 2020**

DOI Aviation Safety Summary and Annual Report https://www.doi.gov/aviation/safety

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RISK MANAGEMENT SAFECOM Overview & Trends and Notable Achievements.

POLICY & ASSURANCE

General Overview, Safety and

INTRODUCTION

Description of the DOI Aviation Program and Points of Contact.

AVIATION OVERVIEW

Accident Rates, Mishap Overview, Fleet Inventory, &

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INTRODUCTION



OUR PROGRAM

The Department's aviation programs are built on Federal Aviation Administration (FAA) regulatory requirements, Federal Management Regulations (FMR), Departmental Manuals (DMs), and industry best practices.

Safety Management Systems (SMS) have gained significant notoriety in the last few years and unfortunately, not all of it favorable. That said, perhaps it's time that we take a step back and view SMS for what it is ultimately trying to accomplish and then "reverse engineer" it through the methods in which those objectives and goals can be met. This requires engagement from executive management all the way through those who perform and support operations. Within that perspective, the most common paradigm is that this is a top-down management initiative with operations personnel at the end of that chain.

"What if?" is a great starter for initiating a paradigm shift...otherwise known as change. For example, what if operations personnel were to lead the effort, managing its way up to the executive level? How then could they not become engaged if those who perform the mission were leading the initiative? At the end of the day, it's up to those who live where the "rubber meets the road" to ensure concepts, requirements and goals become reality. Without them, initiatives like SMS are just another hood ornament – a hollow symbol that provides no value to operations. The Department of the Interior's Aviation Safety and Aircraft Accident Prevention program is founded on the four pillars of an integrated Safety Management System (SMS):





Mark Bathrick - Director (208) 433-5001

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OAS POINTS OF CONTACT

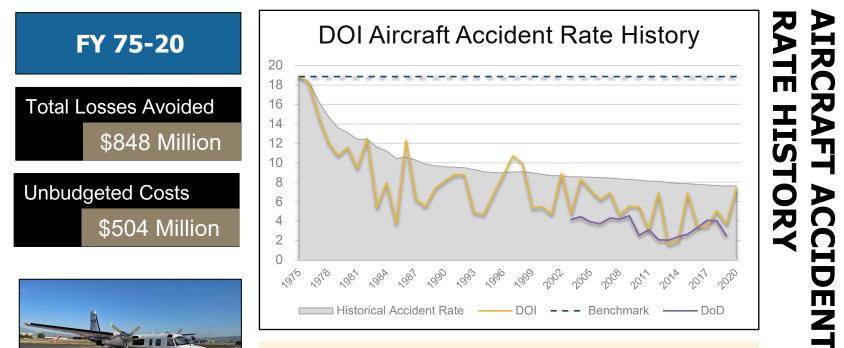




AVIATION OVERVIEW

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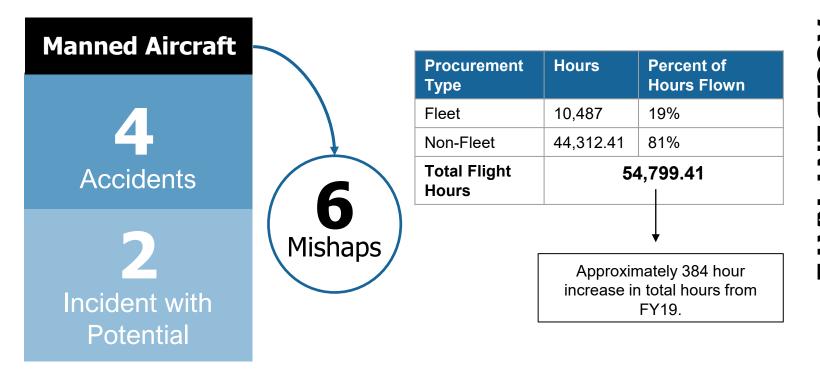


Note rate and

Note: 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.



Date	Туре	Location	Agency	Aircraft	Description
02/27/20	Incident With Potential (IWP)	Gulf of Mexico	BSEE Contract	Augusta A119	While enroute to off-shore platform Eugene Island 342C, helicopter suffered an inflight impact with a seagull Bird entered the cockpit between the front edge of pilot door & door post before exiting lower aft portion of pilot window. Proper PPE prevented injuries to pilot & BSEE employees. No injuries, aircraft received minor damage.
05/31/20	Accident	Unalakleet, AK	BLM Contract	AT-802 Fire Boss	Aircraft dispatched to the Chiroskey River Fire near Unalakleet, AK. Pilots located a short lake appx. 4mi north of the fire to perform scoops. While departing with load 12, the aircraft impacted a small hill at the east end of the lake with the left float. No injuries, substantial damage to aircraft.
06/07/20	IWP	lsom Creek, AK	BLM Contract	AT-802 Fire Boss	During second scoop of the day, the aircraft began an uncommanded right turn that couldn't be countered with left full rudder. Pilot reduced power to idle, dumped the water load and coasted into a floating mass of vegetation. No injuries, no damage.
07/14/20	Accident	Birch Creek, AK	BLM Contract	AT-802 Fire Boss	During the 14th scoop of the day, the aircraft began an uncommanded hard right turn immediately after touchdown on water. Although full left rudder was applied, aircraft impacted shoreline at appx. 45 degrees. No injuries, substantial damage to aircraft.
07/30/20	Accident	Elgin, NV	BLM Contract	AT-802 A SEAT	Two AT-802A aircraft were on their third flight of the day after being dispatched from Mesquite, NV. to the Bishop Fire located approximately 1.5 miles northwest of Elgin, NV. Mission was to continue retardant drop. After following lead plane, first SEAT dropped retardant & executed climb out. Second SEAT flew through retardant covering windscreen. Mid-air collision between both SEAT aircraft when second SEAT executed climb out after dropping retardant. Two fatalities, both aircraft destroyed.
08/30/20	IWP	Woodward Fire PORE	NPS DOI Owned	Matrice 600 w/Ignis PSD	A small Unmanned Aerial System (sUAS) and a Type 2 helicopter with longline and bucket, came in close proximity of one another while operating in the same area on the Woodward fire. sUAS had been engaged in aerial ignition near helicopter. Helicopter reported sUAS appx 100ft below their aircraft. sUAS had lost signal and gone into "home mode" causing it to climb to altitude. No injuries, no damage.
09/22/20	Accident	Schill Fire Emmett, ID	BLM Contract	AT-802 SEAT	Three aircraft departed Ontario, OR to respond to the Schill Fire. The mishap pilot was instructed to drop following behind the first aircraft. He crossed the ridge and continued past the drop start and began to descend into the canyon without releasing the retardant. He started to climb out but was unable to clear the opposite ridge. One fatality, aircraft destroyed.



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.doi.gov/aviation/library/guides

Incidental	
Costs	
Associated	
with	
Mishaps	

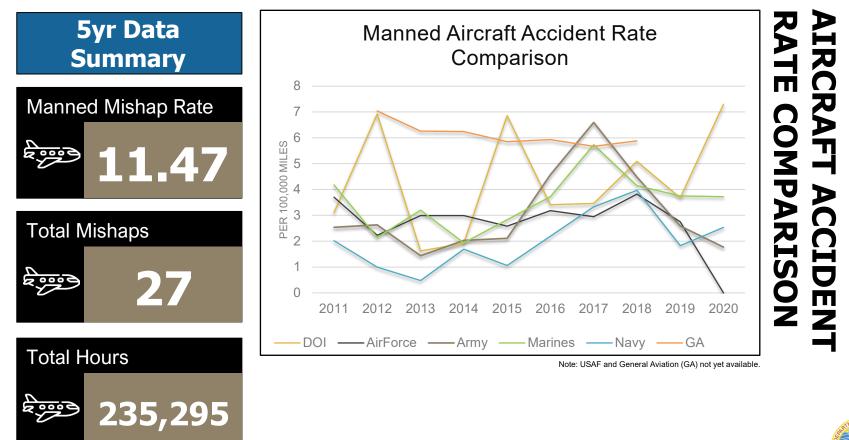
Cost Input	Cost
DOI Losses	~\$20,000
Vendor Losses	\$8,388,257
DOI sUAS Losses	\$30,480
Fatalities (3) VSL*	\$34,800,000
Serious Injuries (0)	N/A
Minor Injuries (0)	N/A
Total	\$43,238,737



*Value Statistical Life (VSL) \$11.6 million Department of Transportation

4
Total
Accidents7.29
Accident
Rate6
Total
Mishaps*10.94
Mishap
Rate

*Manned Aircraft



Manned Mishaps = Accidents + IWPs

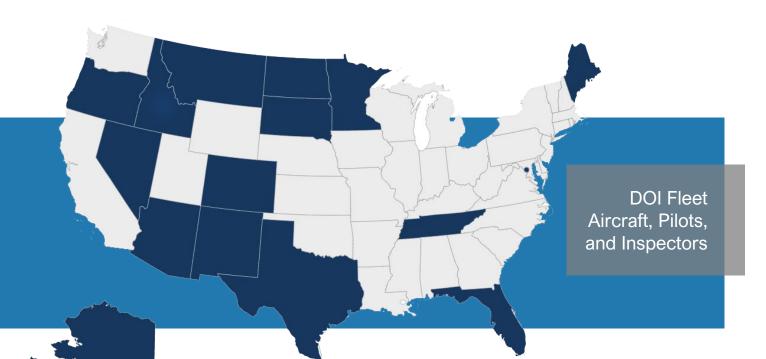
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ANNUAL FLIGHT USAGE STATISTICS – Fleet an Manned

Fleet and Non-Fleet Manned Aircraft

Procurement Type	Flight Hours	% Difference from FY19	Flight Usage Cost	Cost per Flight Hour	% Difference from FY19
Fleet					
FW	9,132.60	24.37% ↓	\$3,808,013.50	\$416.97	32.37% ↑
RW	1,354.40	6.31% ↑	\$2,507,102.00	\$1,851.08	25.67% ↑
Total	10,487	24.37% ↓	\$6,315,115.50	\$602.10	41.69% ↑
Non-Fleet					
FW	22,156.61	12.68% ↑	\$42,976,011.81	\$1,939.65	5.65% ↑
RW	21,456.07	.25% ↑	\$29,858,850.62	\$1,391.63	9.32% ↑
Other	699.73	N/A	\$1,815,654.41	\$2,594.78	N/A
Total	44,312.41	7.91% ↑	\$74,650,516.84	\$1,684.64	9.25% ↑
Grand Total	54,799.41	12.68% ↑	\$80,965,632.34	\$1477.49	16.52% ↑

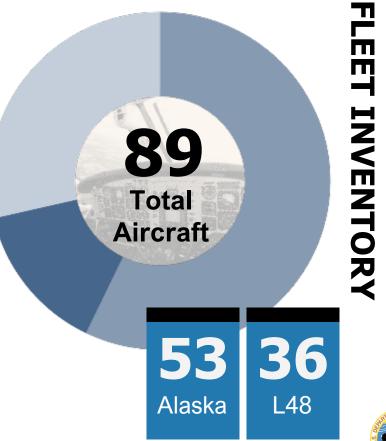




Note: Blue states denotes locations in which DOI fleet aircraft are based. Fleet aircraft and pilots occasionally move home base location. For more information, please contact the Fleet Maintenance Manager for the L48 at 208-433-5082 or AK at 907-271-6104.



Aircraft Type	#	Aircraft Type	#
Airbus AS350 B2	1	Cessna T206 Soloy	1
Aviat A-1B	1	CubCrafters CC-18	22
Beechcraft B200 King Air	2	DeHavilland DHC-6 Twin Otter	1
Bell 206BIII	2	DeHavilland DHC-2	2
Bell 206L3	2	Found FBA-2C2	6
Bell 412EP	2	Partenavia P68	1
Cessna C-182	2	Pilatus PC 12/45	1
Cessna C-185	13	Piper PA-18	1
Cessna C-206	21	Quest Kodiak 100	8





Aircraft by Bureau

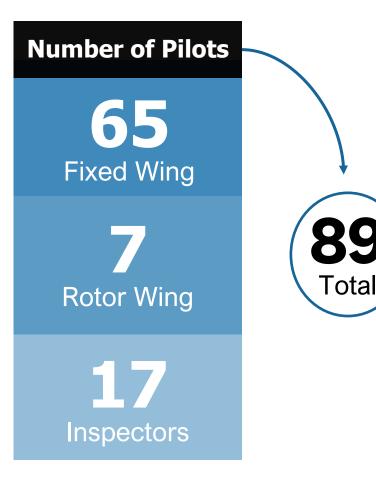
	BLM	FWS	NPS	OAS	USPP	Total
Fixed Wing	7	47	27*	1*		82
Rotor Wing		1	2	1	3	7
Total	7	48	29	2	3	89

*Note: (1) NPS and (1) OAS Fixed Wing removed from service, to be sold.

Aircraft by OAS Region

	Alaska	Western	Eastern	Total
Fixed Wing	53	16	13	82
Rotor Wing		1	6	7
Total	53	17	19	89







Fleet pilot and fleet aircraft averages were 24.84% and 26.35% below FY19, respectively.





Pilots by Bureau

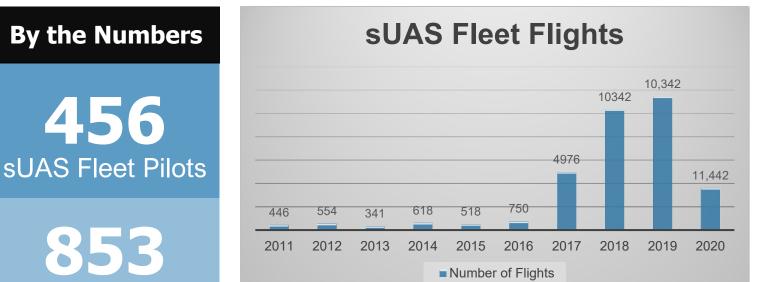
	BLM	FWS	NPS	OAS	USGS	USPP	Total
Fixed Wing	11	37	15	1	1		65
Rotor Wing			1	1		5	7
Inspectors				17			17
Total	11	37	16	19	1	5	89

PILOT DATA

Pilots by OAS Region

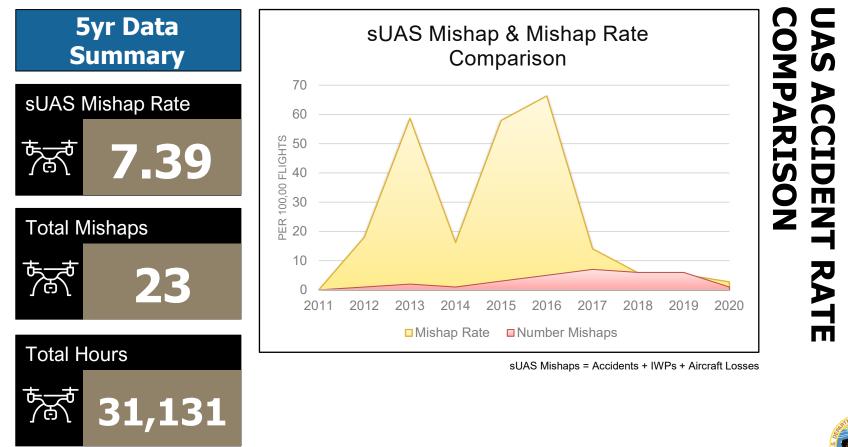
	Alaska	Western	Eastern	Headquarters	Total
Fixed Wing	38	17	9	1	65
Rotor Wing		1	6		7
Inspectors	6	5	4	2	17
Total	44	23	19	3	89



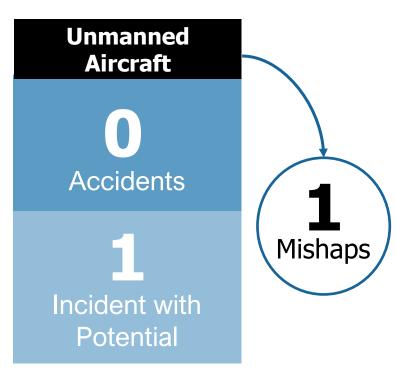












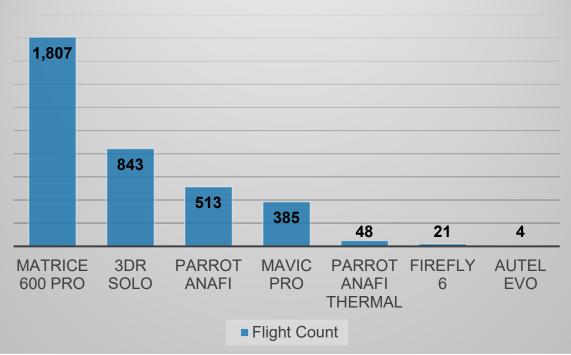
Procurement Type	Flight Count	Percentage of Flights		
Fleet	3,621	98%		
Non-Fleet	72	2%		
Total Flight Count	3,693			
	· · · · · · · · · · · · · · · · · · ·			
	Approximately 7,749 decrease			

Approximately 7,749 decrease in total flight count from FY19 due to implementation of <u>Secretary Order 3379</u>. Y20 UNMANNED Π



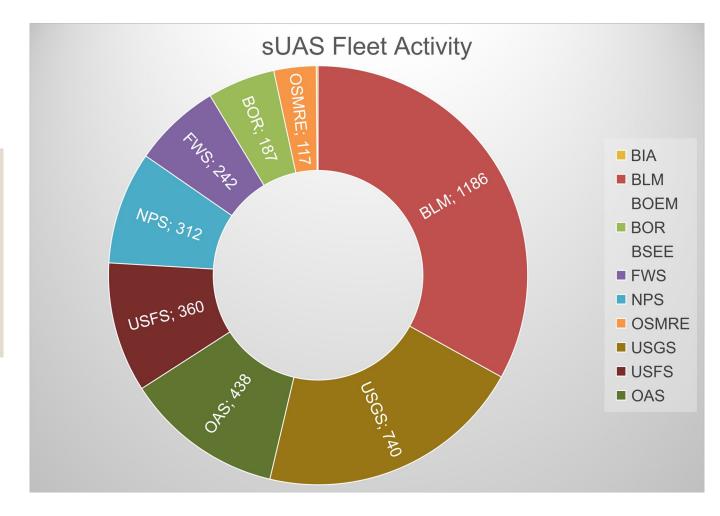
Aircraft Type	#
3DR Site Scan	32
3DR Solo	448
Autel EVO	5
FireFly 6 Pro	24
Matrice 600 Pro	78
Mavic Pro	82
DroneVolt H10	1
Apprentice S15E	1
Parrot Anafi	147
Parrot Anafi Thermal	31
Skidio R1	1
Sky Hero Loki	2
Total	853

Flights by sUAS Aircraft Type



SUAS FLEET INVENTORY









FY20 Bureau Overview

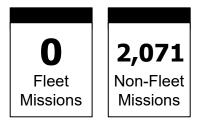
High level analysis of aviation safety and performance statistics that have been extracted from various databases.





Bureau of Indian Affairs

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Contract	2,037.55	\$3,119,082.90	\$1,530.80
Fleet			



	Total Reported	23
SAFECOM	Remaining Open	5
Тор 3		
Categories:	Completion Rate	78%
Hazards,		
Maintenance,		
and Incident.		
	Reporting Ra	ites*
Submission	*Percent difference FY1	
Breakdown:		
8% sUAS		
91% Manned	(32.19%↑) (686% ↑
	Manned /	sUAS

Fleet Statistics	#
Manned Aircraft	0
Pilots	0
Unmanned Aircraft	9
sUAS Pilots	8



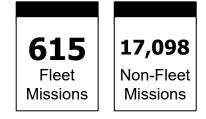
Top Categories: Training & Proficiency.

Aircraft Used: Parrot Anafi.



Bureau of Land Management

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Contract	22,650.86	\$44,503,761.25	\$1,964.77
Fleet	1,430.7	\$1,696,268.50	\$1,185.62



	Total Reported	135
SAFECOM	Remaining Open	17
Top 3		
Categories:	Completion Rate	87%
Hazards,		
Maintenance,		
and Incident.	Deperting De	 *
	<u>Reporting Ra</u>	lles
Submission	*Percent difference FY1	9 to FY20
Breakdown:		
4% sUAS	28.84%↑	28.75%↑
96% Manned	Manned	sUAS
	IVIAI II IEU	SUAS

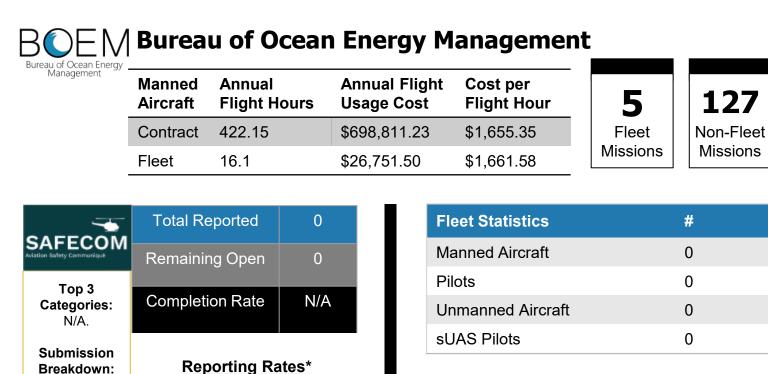
Fleet Statistics	#
Manned Aircraft	7
Pilots	11
Unmanned Aircraft	285
sUAS Pilots	146



Top Categories: Interagency Fire, Mapping, and Training & Proficiency.

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





0% sUAS

0% Manned

*Percent difference FY19 to FY20

Unchanged

sUAS

Unchanged

Manned



FY20

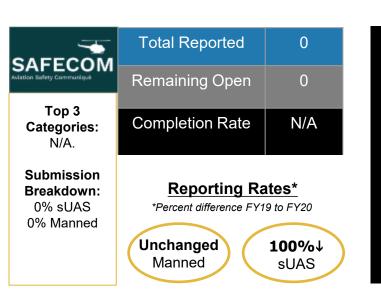


Aircraft Used: N/A

Top Categories: N/A

Bureau of Reclamation

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour	
Contract	23.3	\$37,174.10	\$1,595.45	
Fleet				



Fleet Statistics	#
Manned Aircraft	0
Pilots	0
Unmanned Aircraft	59
sUAS Pilots	24

Fleet

Missions



Top Categories: Training & Proficiency, Mapping, and Maintenance & Inspection.

16

Non-Fleet

Missions

Aircraft Used: 3DR Solo, Parrot Anafi, Mavic Pro.





Bureau of Safety & Environmental Enforcement

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour	0	3,977
Contract	6,703.2	\$7,777,104.80	\$1,160.20	Fleet	Non-Fleet
Fleet				Missions	Missions

	Total Reported	79
SAFECOM	Remaining Open	1
Top 3 Categories: Hazards,	Completion Rate	99%
Maintenance, and Incident.	Reporting Ra	ntes*
Submission Breakdown: 0% sUAS 100% Manned	*Percent difference FY1 13.46%↓ Manned	9 to FY20 nchanged sUAS

Fleet Statistics	#
Manned Aircraft	0
Pilots	0
Unmanned Aircraft	0
sUAS Pilots	0



Top Categories: N/A

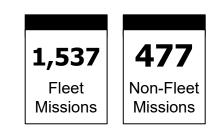
Aircraft Used: N/A





U.S. Fish and Wildlife Service

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Contract	896.15	\$800,760.96	\$893.56
Fleet	4,431.30	\$1,448,026	\$326.77



	Total Reported	6
SAFECOM	Remaining Open	0
Top 3 Categories: Hazards,	Completion Rate	100%
Maintenance, and Incident.	Reporting Ra	ates*
Submission Breakdown: 0% sUAS 100% Manned	*Percent difference FY1 18.95% ↓ Manned	

Fleet Statistics	#
Manned Aircraft	48
Pilots	37
Unmanned Aircraft	160
sUAS Pilots	68



Top Categories: Interagency Fire, Training & Proficiency, and Reconnaissance.

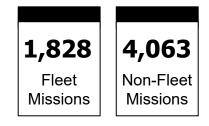
Aircraft Used: Matrice 600 Pro, 3DR Solo, Mavic Pro.





National Park Service*

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Contract	4,825.47	\$6,387,011.37	\$1,416.86
Fleet	3,669.30	\$1,955,485.80	\$532.93



	Total Reported	50
SAFECOM Actation Safety Communique	Remaining Open	10
Тор 3		
Categories:	Completion Rate	80%
Hazards,		
Maintenance,		
and Incident.	Deperting De	1 *
	<u>Reporting Ra</u>	ites"
Submission	*Percent difference FY1	9 to FY20
Breakdown:		
8% sUAS	213.42%↑	316.67% ↑
92% Manned	Manned	sUAS

Fleet Statistics#Manned Aircraft29Pilots16Unmanned Aircraft65sUAS Pilots49



Top Categories: Training & Proficiency, Interagency Fire, and Maintenance & Inspection.

Aircraft Used: Parrott Anafi, Matrice 600 Pro, Mavic Pro. THE REPORT OF TH

* Includes U.S. Park Police



Office of Surface Mining Reclamation & Enforcement

MEN	Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour	0
	Contract	60.40	\$73,598.90	\$1,218.48	Fleet
	Fleet				Missions

	Total Reported	1
SAFECOM	Remaining Open	1
Top 3 Categories: Airspace,	Completion Rate	0%
Hazards, and UAS.	Reporting Ra	ates*
Submission Breakdown: 100% sUAS 0% Manned	*Percent difference FY1	

Fleet Statistics	#
Manned Aircraft	0
Pilots	0
Unmanned Aircraft	34
sUAS Pilots	24



Top Categories: Mapping, Landscape Monitoring, and Training & Proficiency.

24

Non-Fleet Missions

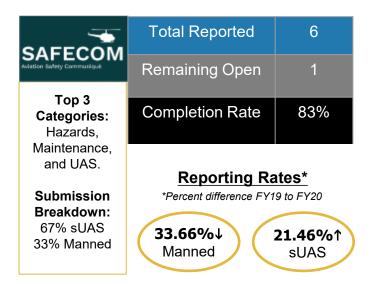
Aircraft Used: 3DR Solo, Parrot Anafi, Mavic Pro.



WISGSU.S. Geological Survey

science for a changing world

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour	10
Contract	1,311.61	\$896,645.55	\$683.62	Fleet
Fleet	34.1	\$17,441.50	\$511.48	Missions



Fleet Statistics	#
Manned Aircraft	0
Pilots	1
Unmanned Aircraft	201
sUAS Pilots	124



Top Categories: Training & Proficiency, Mapping, and Landscape Monitoring.

1,000

Non-Fleet

Missions

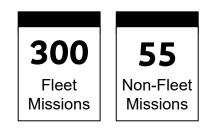
Aircraft Used: 3DR Solo, Parrot Anafi, Mavic Pro.





Office of Aviation Services

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour
Contract	67.1	\$88,903.40	\$1324.94
Fleet	413.2	\$209,353.50	\$506.67



	Total Reported	1
SAFECOM	Remaining Open	0
Top 3		
Categories:	Completion Rate	100%
Accident,		
Airspace, and		
Hazard.		
	<u>Reporting Ra</u>	<u>ates*</u>
Submission	*Percent difference FY1	9 to FY20
Breakdown:		
100% sUAS	100%↓	N/A
0% Manned	Manned	sUAS
		30/10

Fleet Statistics	#
Manned Aircraft	2
Pilots/Inspectors	19
Unmanned Aircraft	40
sUAS Pilots	10



Top Categories: Interagency Fire, Training & Proficiency, and Reconnaissance.

Aircraft Used: Matrice 600 Pro, Parrott Anafi, 3DR Solo.



POLICY & ASSURANCE



GENERAL OVERVIEW



Performance	Quantity	Performance	Quantity
Commercial Aircraft Inspections	676	Operational Procedures Memoranda (OPM) Revisions	2
Commercial Pilot Evaluations	483	Program Evaluations Completed	3
Cooperator Approvals	50	UAS Aircraft Inspections Completed (Fleet and Vendor)	39
Elevated SAFECOMs Completed	10	UAS Pilot Inspections (Note: There are no Advanced Workshops in FY20)	27
Fuel Service Vehicle Inspections	186	Point to Point Inspections	376
Fleet Aircraft Inspections Completed	106	Student Hours of IAT Training Completed	120,226
Fleet Pilot Evaluations Completed	97	Technical Specifications for Procurement	33
Interagency Safety Communications Issued	11	Reviewed	

PERFORMANCE







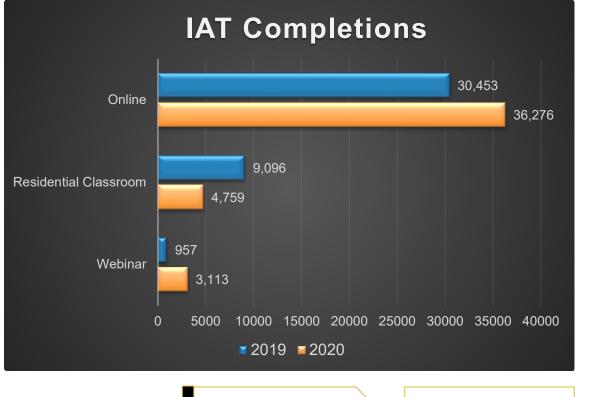
https://www.iat.gov

In FY20, the OAS Training Branch successfully hosted one Aviation Centered Training (ACE) event. The event was hosted in Anchorage AK with 536 course completions.

In March 2020, due to COVID, nearly all in-person learning was suspended. In response, the OAS TB was able to offer an extension letter for training held in the classroom. Webinar efforts were increased to ensure that personnel were able to safely deploy for the 2020 field season.

The OAS TB was able to convert 22 course from Adobe Flash to HTML5 format prior to the end of Flash support which kept all courses available to users. OAS TB worked on the revision and update of 22 courses in FY20 ranging in stages from initial analysis to final certification.







UPDATE -BRANCH

ACE Anchorage

536 Completions

Flash Conversions FY 20 – (2) Courses

FY 21 – (22) Courses



At-A-Glance

Program Evaluations Completed*

5 Best Practices Noted **Top 5 Best Practices for FY16-20**

- Utilization of tiered management plans as a means of ensuring National, Regional/State and Local Aviation Management Plans are consistent.
- 2) ALSE inspection and tracking program in place, facilitating consistent compliance with ALSE Handbook requirements.
- M-3 training included in consolidated management meetings to ensure Line Managers and Supervisors meet OPM-04 requirements.
- 4) Aviation Mishap Response Plans 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.



*Due to Covid-19



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 FY16-20

1) Aviation training requirements not met.

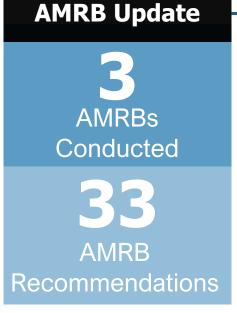
2) Inadequate project planning, including Project Aviation Safety Plan (PASP) completion in accordance with <u>OPM-6</u>.

3) Incomplete, inaccurate, and/or out of date Aviation Management Plans.

4) Interagency Life Support Equipment (ALSE) inspection and tracking below Interagency ALSE Standard requirements.

5) Flight hazard maps lacking or inadequate.









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.

ATION



18 SSEB Completions

SMS Assurance Site Visits*

Safety & Evaluation Changes

Updated Rating Descriptions

FAA violations added as a rating element

Adjusted numerical/weighted values

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 contractor and the government employees that use their services. Completed SSEB's were an evaluation of offeror's response to an SMS questionnaire.

*Due to Covid-19

RISK MANAGEMENT

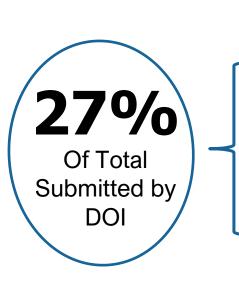




Using the <u>SAFECOM</u> system for punitive action is prohibited (<u>352 DM 3.10B</u>).

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.



SAFECOM Data 1,106 Total SAFECOM Entries*

> **301** DOI Bureau Entries

*DOI, USFS, States, & Cooperators

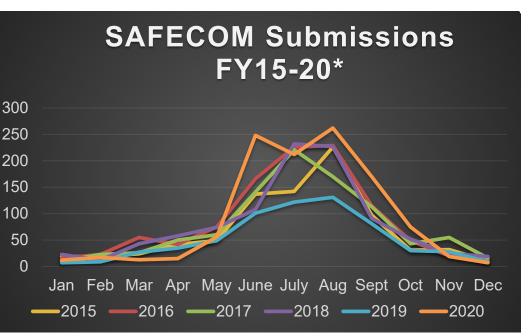




Percentage Submission By Bureau*

Bureau	Percent	
BIA	7%	
BLM	44%	
BOEM	0%	
BOR	0%	
BSEE	26%	
FWS	2%	
NPS	16%	
OAS	3%	
OSM	0%	
USGS	2%	*M

anned & sUAS



*All Agencies

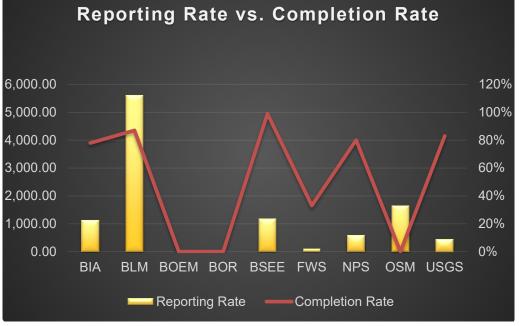


SAFECOM

OVERVIEW

FY20 SAFECOM Reporting Rate vs. Completion Rate

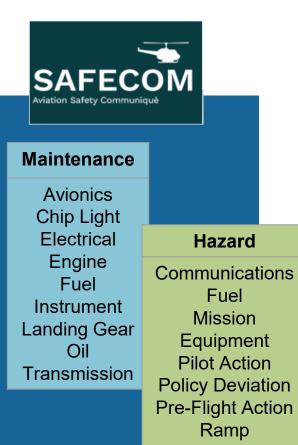
Bureau	Reporting Rate*	Completion Rate
BIA	1,128.80	78%
BLM	5,621.34	87%
BOEM	0	0%
BOR	0	0%
BSEE	1,178.54	99%
FWS	112.62	33%
NPS	588.59	80%
OSM	1,655.62	0%
USGS	445.86	83%
	*Per 1	00 000 flight hours



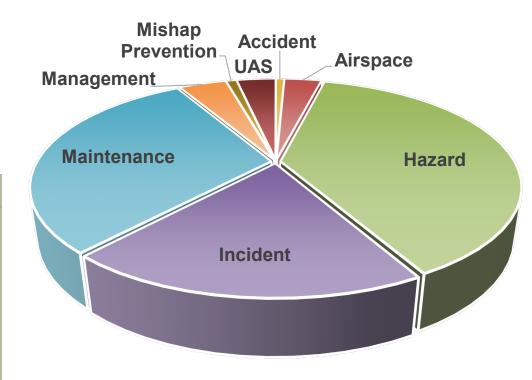
SAFECOM **OVERVIEW**



*Per 100,000 flight hours



FY20 SAFECOMS BY CATEGORY





At-A-Glance





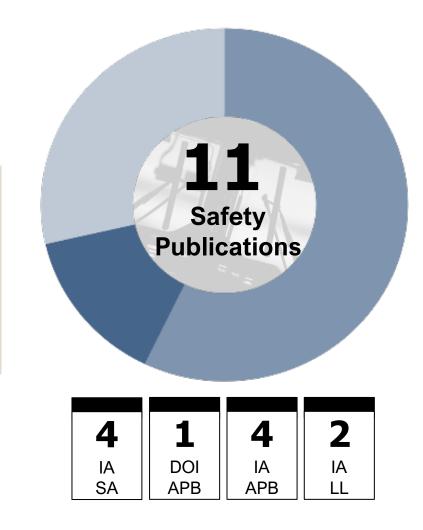
ENHANCING SAFETY – FLIGHT SIMULATION

- The Fish and Wildlife Service (FWS) has provided two new flight simulators for all bureaus to take advantage; a Flight Modular Deck (FMD) and a Kodiak. Both are located on the campus of the National Interagency Fire Center (NIFC). Both simulators are Federal Aviation Administration (FAA) 3 axis full motion flight approved.
- Simulators are designed to address the lack of pilot proficiency regarding Inadvertent Instrument Meteorological Conditions (IIMC). A training program has been developed for FY21 that will specifically address these issues.
- 3) Advanced graphics are embedded in the operating software of the simulators to provide an enhanced experience.

Simulators are available for use by all Bureaus. For more information: **Contact:** Chris Greeley at <u>christopher_greeley@fws.gov</u> or 208-387-5249.



		Award	Recipient(s)
9	Prei a fut de la constante BORIER	Departmental Award for Outstanding Contribution to Aviation Safety	Nathan Olson
Total Awards		Airward	Lily Konantz
	HATOMAL	In-Flight Action Award	Adam Grenada
	MURDAN BART CONTRACTOR	Safe Flying Award	Troy Hamon Galen Howell Amy Larsen Brett Nigus Rich Richotte Don Welty



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

SAFETY PUBLICATIONS



SAFET PUBLICATIONS



Interagency Aviation Safety Alert

Publication Number	Title
IA SA 20-01	Improper Cargo Rigging and Cargo Security
IA SA 20-02	Aircraft Fuel – Sampling Quality Assurance
IA SA 20-03	Adjustments to Emergency Procedures for Drone Amplified Ignis II
IA SA 20-04	Synthetic Long Lines

Interagency Accident Prevention Bulletin

Publication Title Number

IA APB 20-01	Aviation Life Support Equipment
IA APB 20-02	Safety Communique (SAFECOM)
IA APB 20-03	Radiant Heat in Wildland Fire Suppression
IA APB 20-04	Fire Boss Operations

Interagency Lessons Learned

Title

Number IA LL 20-01 Operations at Non-Towered Airports IA LL 20-02 Aviation Life Support Equipment (ALSE)

DOI Accident Prevention Bulletin

Publication Title Number

Publication

DOI APB <u>Safety Communique (SAFECOM)</u> 20-01



Accident-Free Milestones

Bureau	Years
BIA	3
BOEM	9
BOR	23
BSEE	46
FWS	5

Bureau	National Aviation Manager	Phone
BIA	Joel Kerley	208-387-5371
BLM	Brad Gibbs	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	Bill Christiansen	303-236-5513

ACCI DENT BUREAU ΜI **ILESTONES**





Fish and Wildlife Service

Last Name	First Name
Anderson	Anna
Bayless	Shawn
Bosch	Brandon
Coggins	Lewis
Daniels	Chris
Earsom	Stephen
Greeley	Christopher
Greil	Thomas
Guldager	Nikki
Hilwig	Kara
Kadrmas	Niel
Koneff	Mark
Liddick	Terry



Last Name	First Name
Lubinski	Brian
Mallek	Ed
Olson	Nate
Pepin	Dan
Rayfield	John
Rees	Kurt
Rhodes	Walt
Rippeto	Dave
Scotton	Brad
Shelden	Dan
Sherman	Lee
Shults	Brad
Spangler	Robert



Fish and Wildlife Service

Last Name	First Name
Sundown	Robert
Thorpe	Phil
VanHatten	Kevin
Wade	Mike
Watts	Dominick
Wortham	James
Yates	Sarah









Bureau of Land Management

Last Name	First Name
Allen	Lisa
Bell*	Don
Germann	Hans
Gusse	Walker
Hart	Travis
Lenmark	Paul
Mascheroni	Andre
Mazur	Stephen
McCormick	Robert
McCurdy	Michael
McMillan	Seth
Swisher	Christopher

National Park Service		
Last Name	First Name	
Bell	Steven	
Capra	Jim	
Eavasick*	Ryan	
Enzfelder	Glen	
Goodwin	Fred	
Grenda	Adam	
Hamon	Troy	
Haapapuro*	Eric	
Howell	Galen	
Hummel	James	
Larsen	Amy	
	* U.S. Park Police	



Wright* Keaton * U.S. Park Police

ACCIDENT-FREE PILOTS



*retired Dec 2020



Office of Aviation Services

Last Name	First Name
Bannister	Gene
Castillo	James
Cook	Thomas
Curtis*	Scott
Englert	Rich
Flack	Andy
Fowler	Dale
Howell	Gil
James	William
Kearney	Patrick
Kopczynski	Jim

Office of Aviation Services	
Last Name	First Name
Lindley	Jonathan
Miller	Arlyn
Pena	Terry
Wittkop	Jim

U.S. Geological Survey	
Last Name	First Name
Heywood	Charles

ACCIDENT-FREE PILOTS





*retired Dec 2020

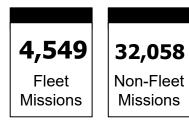
EXECUTIVE 31B SUMMARY





FY20 DOI Executive Summary

Manned Aircraft	Annual Flight Hours	Annual Flight Usage Cost	Cost per Flight Hour	4
Contract	44,312.41	\$746,505,516.8	\$1684.64	
Fleet	10,487	\$6,315,115.5	\$602.18	Mi



	Total Reported	208
SAFECOM	Remaining Open	47
Top 3 Categories: Maintenance,	Completion Rate	85%
Hazard, and Incident.	Reporting Ra	ites*
Submission Breakdown: 6% sUAS 94% Manned	*Percent difference FY1 21.41%↑ Manned	9 to FY20 5.34%↑ sUAS

Fleet Statistics	Bureau Total
Manned Aircraft	89
Pilots/Inspectors	89
Unmanned Aircraft	853
sUAS Pilots	456



Top Categories:

Interagency Fire, Training & Proficiency, and Mapping.

Aircraft Used: Matrice 600 Pro, 3DR Solo, Parrott Anafi.





FY20 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."

Policy

4 – AMRBs Completed 33 – AMRB Recommendations 13 – Recommendations Completed

Assurance

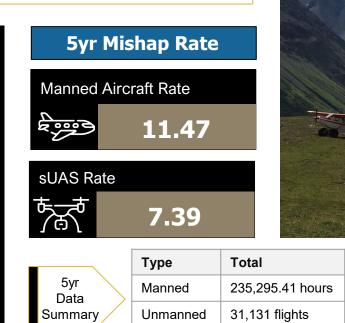
3 – Program Evaluations Completed 5 – Best Practices Noted FY16-20 5 – Top Findings FY16-20

Risk Management

27% of SAFECOMs Reported were by DOI Bureaus.

Promotion

9 - Awards from three different bureaus.



Õ EXECUTIVE SUMMARY

Mishaps

27

23

