

FY 2015

Aviation Safety Summary & Annual Report

26th Annual



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Partnering for Better, Faster, Cheaper, Safer Aviation Missions



Fiscal Year 2015 DOI Annual Aviation Safety Summary/Report

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DOI's Aviation Safety and Aircraft Accident Prevention program is founded on the four pillars of an integrated Safety Management System (SMS): **Risk Management** Promotion Assurance Policy **Office of Aviation Services * Bureaus * Industry** The Department of Interior (DOI) firmly believes that all aircraft accidents can be prevented. This year, DOI experienced a dramatic increase in our accident rate. This is a stark reminder of how we must reaffirm our commitment to aviation safety and adopt the attitude that zero accidents is an attainable goal. Furthermore, we must implement the supporting characteristics and assure they are in good working order every day. This dedication to aviation safety will saves lives, reduces cost, and drive efficiencies across all of our mission areas.

Successful aviation programs embrace a just culture that balances safety and accountability. The characteristics and attitudes of a safety culture establishes safety as an overriding priority but also requires components of accountability, including clear expectations, required actions, and a means by which they will be evaluated.

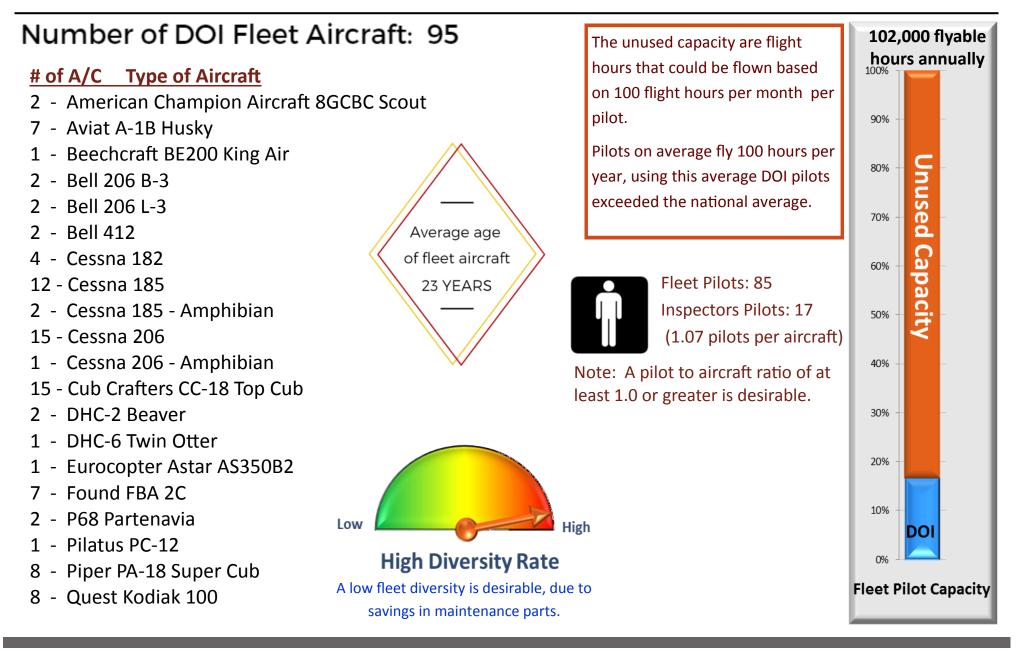


Department of Interior Fleet Aircraft & Pilots by State

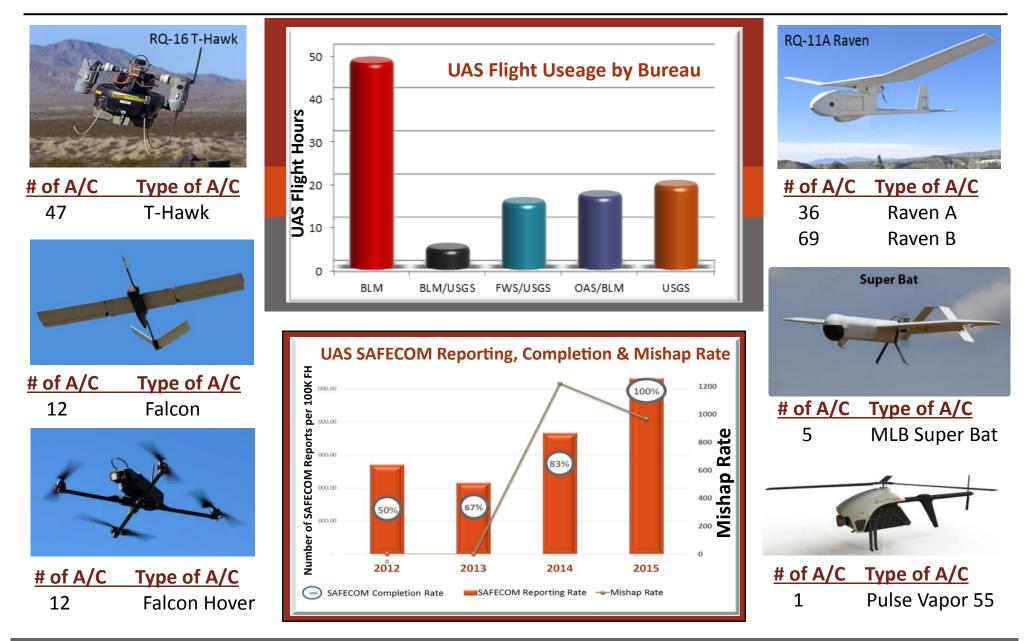


Note: Fleet aircraft and pilots occasionally move their home base location, for the latest information on where they are located you can call the Fleet Maintenance Manager in OAS-Technical Services at (208) 433-5082 for lower 48, or (907) 271-4324 in Alaska. Aircraft Locations can be found at <u>https://sites.google.com/a/ibc.doi.gov/aviation-resources/doi-fleet</u>

DOI Fleet Aircraft Inventory

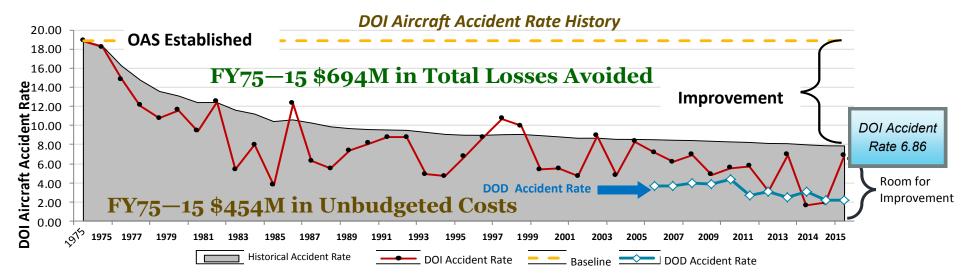


Unmanned Aircraft Systems



Aircraft Accident Rate

The U.S. Department of the Interior (DOI) started the year off with two accidents and ended the year with seven mishaps. The **annual** aircraft accident rate is 6.86 per 100K flight hours, an increase of 4.94 from last year. The DOI mishap rate is 12.01 a slight decrease from the previous year by 1.45. 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)



The Department's annual aircraft accident rate² in FY15 is 6.86 accidents per 100,000 flight hours. As of October 1, 2015, flight data captured for **FY15 reported 58,269.44 total flight hours**, 6,256.84 more than the previous year.

Since 1975, DOI's aviation safety program has resulted in estimated savings of 694M to the Department and its supporting vendors in reduced losses. Over the last 10 years, DOI accident rates have exhibited a downward trend with the exception of 2012 and 2015. This includes two of the lowest annual accident rates in DOI history (FY13, FY14).

Flight missions performed for DOI were supported in part by bureau requested and OAS supported aviation contracts that required: 1,682 vendor pilot evaluations, 821 vendor aircraft inspections, 330 Interior fleet pilot evaluations, and 86 Interior fleet aircraft inspections. Aviation Training supported 95,781 student hours of training and revised/created three courses in collaboration with bureau and interagency partners.³

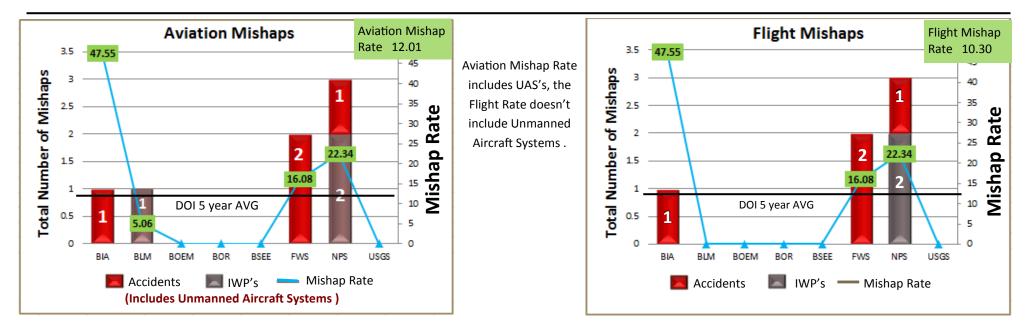
¹Historical aircraft accident rate is defined as total historical aircraft accidents per 100,000 flight hours flown.

²Annual aircraft accident rate is defined as total aircraft accidents in one year per 100,000 flight hours flown.

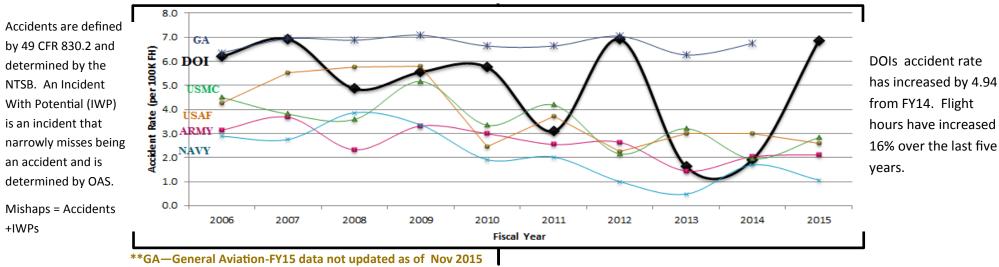
³Includes DOI Fleet, Commercial Vendor, and Cooperator aircraft from other agencies. Pilots receive evaluations for each specific special use mission area qualification.

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DOI FY15 Mishap Overview



Accident Rate



FY15 Aviation Overview

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DOI FY15 Mishap Overview

Incidental Cost associated with Mishaps

					IWP - Incident with potential	Cost Input		Cost	Cost Input		Cost
Location	Date	Severity	Operator	Aircraft	Description						
The Dalles, OR	8-19-15	Accident	Contractor BIA	Aero Com- mander	Contact with runway occurred due to premature	Bureau Investigation		\$ 16,080	OAS Investig (reimbursab	le)	\$ 9,900
			NW Region	500	wheel retraction during takeoff.	DOI Losses (i.e. pair, recovery, 1		\$	Vendor Losse C repair, reco	very,	\$
	7 00 45		Contractor Not Bureau	American Champion	During training event, air-	availability, loss		1,005,562	loss of availal etc.)	oility,	1,280,000
Willows, AK	7-22-15	IWP	Operational- ly Con- trolled	Super De- cathlon	craft contacted the runway causing significant damage.	Fatality (1) *VS	L	\$9,100,000	Minor Injurie	es (3)	\$ 81,900
Cold Bay, AK	7-24-15	Accident	Fleet FWS	Found Bush	Loss of directional control during off airport takeoff,	Total Costs (7 Mishaps)		\$ 11,493,4	\$ 11,493,442		
, , , , , , , , , , , , , , , , , , ,	-		Region 7	Hawk	resulted in substantial dam- age.	All cost associated with mishaps have not been finalized due to o				-	
			Fleet BLM		UAS inadvertently launched	ing investigations and repairs associated to the mishaps, these commay rise. DOI Flight Usage Cost Cost associated with flight hours only			ese costs		
Carrizo Plain NP, CA	4-16-15	IWP	California Region	Super Bat UAS	from the catapult without the engine running and im- pacted the ground.						
Voyageurs NP, MN	2-14-15	IWP	Fleet FWS Region 3	Aviat Husky	Fuel exhaustion resulted in off airport landing.		Annual fli Usage Co	- A	nnual Flight Hours	Cost per l	-light Hour
			i kogion o			Fleet	\$ 6,59	4,403	17,116		\$ 385
Anchorage, AK	10-19-14	Accident	Fleet FWS	Cub Craft- er CC18-	Pilot lost directional control	Contract 6 40.0		2,908	41,153	\$	1,215
6.7			Region 7	180 Top Cub	during off airport landing.			7,310	58,269		\$ 971
El Portal, CA	10-7-14	Accident	Contractor NPS Pacific West	S-2F3AT	Aircraft contacted trees re- sulting in impact with terrain during fire suppression op- erations.	These rates are a only, doesn't inc		• •			-

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FY15 SAFECOM Overview





The SAFECOM system is **not** intended for initiating punitive actions. Submitting a SAFECOM is **not** a substitute for "on-the-spot" corrections to a safety concern. It's 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.gov

Bureau	Submitted
BIA	11%
BLM	34%
BOEM	0%
BOR	0%
BSEE	27%
FWS	7%
NPS	19%
USGS	1%
OAS	2%
OSMRE	0%

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1.20

1.00

0.80

0.60

0.40

0.20

0.00

Completion Rate

DOI SAFECOM Reporting & Completion Rate

by Bureau FY15

FWS

NPS

SAFECOM Completion Rate

USGS

FY15 SAFECOM Overview

2.

1800

1600

1400

1200

1000

800

600

400

200

0

BIA

SAFECOM Reporting Rate

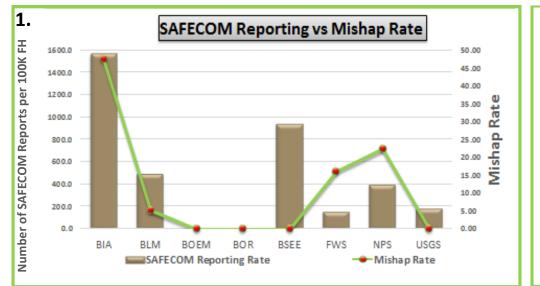
BLM

BOEM

BOR

BSEE

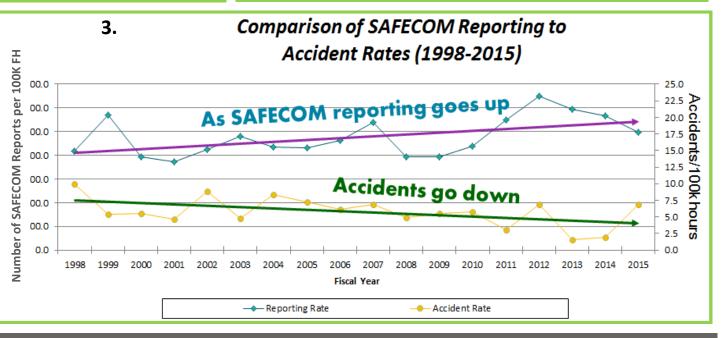
Number of SAFECOM Reports per 100K FH



Slide 1– Without good reporting, you don't know what your mishap rate is. BIA's mishap rate is high, due to their low flight hours. BIA is to be commended for increasing their SAFECOM reporting rate by 65%.

Slide 2– FY15 SAFECOM management continues to improve with DOI's reporting rate increasing by 3% from FY14, the most significant increase by BIA.

Slide 3– SAFECOM reporting for the period (1998-2015) increased 20%, the average accident rate of 5.80 decreased by 45%.



SAFECOM Reporting Success

The SAFECOM system is the primary method which DOI and the USFS use to report any condition, observance, act, maintenance problem, or circumstance that has potential to cause an aviation-related mishap. It's also a great way to record and share success as well! While it's imperative that issues be addressed at the local level, it's just as important to share them and their respective solutions throughout the system.

The goal in Department of Interior is to create a culture where people are encouraged to report safety issues and concerns without fear of reprimand or reprisal (excluding willful violations). An environment that encourages open and honest reporting of our own and other's mistakes (and successes), improves efficiencies while providing a safer and more productive work environment. A reporting culture is essential to our type of aviation activities.

The unique missions and the environments in which we operate are often higher risk than those of general or commercial aviation operations. This proactive process of exchanging critical information allows the appropriate personnel to become engaged and affords them the opportunity to become part of the mitigation prior to it becoming a mishap.

There are many examples where someone submitted a SAFECOM that ultimately prevented the situation from reoccurring.

This was illustrated by a series of *SAFECOM* reports this last summer:

A SAFECOM report identified an issue with the Airbus 350 Series Tail Rotor Gearbox Input Bellcrank. A bushing installed in the bellcrank had slipped out on an aircraft. The first SAFECOM submitted raised the awareness of a vendor pilot, who paid close attention during his preflight to the same issue. He discovered the same error and submitted a SAFECOM on his experience. Another SAFECOM was submit-



ted for similar occurrence a few weeks later. OAS Maintenance Inspectors identified this trend and notified the manufacturer. The Aviation Safety Division developed a Safety Alert (IA SA 16-01) to increase awareness.

Did this prevent an accident? We may never know if the bellcrank bushing would result in an accident, but thanks to those who submitted a *SAFECOM*, the issue is recognized and being addressed by the manufacturer. We do know the *SAFECOM* reports increased needed vigilance in prefights.

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5	Stat 1	F
		/
	MARCH & 1843	
	MARCH 3, 1849	

\$ 1,564

Cost per **Flight Hour**

MENT OF

			FY15 A	Aviation Over	view		
Bureau Annua Flight Ho		Annual flight Usage Cost	Cost per Flight Hour	These rates are associated to pay item codes associated to flight hours only, doesn't	Bureau	Annual Flight Hours	Annual flight Usage Cost
BLM 19,780)	\$ 28,807,039	\$ 1,456	include monthly rates, availa- bility, standby etc	BIA	2,103	\$ 3,288,406
FY15 BLM Fleet Statis	tics	BLM UAS	S Flights 2015			СОГГ	
Manned Aircraft - 4% of Fleet	6	Number of I missions	UAS	22	BIA h	SHT L as one of the highes	t SAFECOM completion
Aircraft Age 0-10 Years	2	Missions	Creek Projec Range, CA De	sslands, Silver t, Jornada NM esert, San Simon			ECOMs submitted which Reporting increased by
11-20 Years > 21 Years	1 3		,	.Z, Soda Lake, CA, AO Boise, Spo- Ige Grouse	FY1	5 Aviation Mi	ishap = 1 Accid
Pilots* Dual Function Pilots Independent	7 6 0	Aircraft Syst Type		- 11 Missions 11 Missions	A flight	hours have d	ecreased by 4%
Pilot to Aircraft Ratio	1.17	Flight Hours	6	9.15			

*BLM pilots fly commercial owned government operated (COGO) aircraft in addition to fleet aircraft. Dual Function Pilots - Pilots who also have another job. (Ex. Scientist)



BLM has one of the highest SAFECOM completion rate in DOI at 100%. There were 98 SAFECOMs submitted which account for 34% of DOI SAFECOMS. Reporting increased by 20% from FY14.

FY15 Aviation Mishaps = 1 Incident With Potential (UAS)

BLM flight hours have increased by 15% from FY14.

MENT WINE IN

etion rate in DOI at which account for ed by 40% from FY14.

cident

4% from FY14.



Bureau	Annual	Annual flight	Cost per
	Flight Hours	Usage Cost	Flight Hour
BOEM	337	\$ 489,975	\$ 1,456

BOEM flight hours have increased by 46% from FY14.

Y15 DOI Anr	nual Aviatio	on Safe	ty Summa	ary					Page 1	3
				FY15 /	Aviatio	n Overv	iew	NAT SE		. MARCH 3
	Annual ght Hours		al flight ge Cost	Cost per Flight Hour	pay item cod flight hour	re associated to es associated to s only, doesn't	Bureau	u Annual Flight Hours	Annual flight Usage Cost	Cost per Flight Hou
FWS	12,439	\$ 3	8,817,584	\$ 307		hly rates, availa- andby etc	NPS	13,430	\$ 9,964,889	\$
FY15 FWS Fle	et Statistics	;		AS Flights 2	015		-	FY15 NPS Fleet St	atistics	
Manned Aircraft Fleet	—62% of 5	7	Number o	•	010			Manned Aircraft—32% Fleet	6 of 29	
Aircraft Age		UAS M		ions	3			Aircraft Age		
0-10 Ye 11-20 Y > 21 Ye	ears 1	8 3 6	Missions	Topock Sequoy	Marsh & ah			0-10 Years 11-20 Years > 21 Years	6 7 16	
Pilots Dual Function P Trainee	ilots 3	7 4 1	Aircraft Sy tem Type		aven			Dual Function Pilots Pilots Independent	19 7 2	
			Flight Hou	irs 2	15.2			Trainee	1	

15.2

Pilot to Aircraft Ratio

SAFECOM

.74

FWS has the lowest SAFECOM completion rate in DOI at 20%. There were 20 SAFECOMs submitted which account for 7% of DOI SAFECOMS. Reporting decreased by 25% from FY14.

Flight Hours

FY15 Aviation Mishaps = 2 Accidents

FWS flight hours have increased by 14% from FY14.

SAFECOM

Pilot to Aircraft Ratio

1.00

ur

742

NPS has a SAFECOM completion rate at 63%. There were 54 SAFECOMs submitted which account for 19% of DOI SAFECOMS. Reporting decreased by 6% from FY14.

FY15 Aviation Mishaps = 1 Accident,2 Incidents with Potential (IWP)

NPS flight hours have increased by 22% from FY14.

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	(BUREAU OF Safety and Environmental Enforcement	FY15 A	Aviation	Overv	iew	science for a	SGS changing world	MARCH 3, 1849
Bureau	Annual Flight Hours	Annual flight Usage Cost	Cost per Flight Hour	These rates are a pay item codes a flight hours or	associated to nly, doesn't	Bureau	Annual Fligh Hours	t Annual flig Usage Cos	
BSEE	8,178	\$ 8,835,722	\$ 1,080	include monthly bility, stanc		USGS	1,621	\$ 984,0	71 \$ 607
	SDI	FECC	M		FY15 USG	S Fleet Stati	istics	USGS UAS F	ights 2015
	E has one of the hig	hest SAFECOM comple AFECOMs submitted v			Manned Ai Fleet	rcraft—1% or	f 1	Number of UAS missions	15
		. Reporting decreased have increase		11 > 2 Dual Funct	10 Years -20 Years 21 Years	0 0 1 0	Missions	Topock Marsh, Las Cienegas NCA, Jorna- da NM Range, Se- quoyah, Denver, Gray's Lake	
		DEPARTMENT OF THE INTERN			Pilots Independe Pilot to Airo		0 1 1	Aircraft System Type	Raven, Super Bat & T-Hawk
	G)		1 100 10 7 110		ľ	Flight Hours	38.99
Bure BO BOR fli	Flight Ho R 199	urs Usage Cos	st Flight Ho 43 \$ 1,2	ur 244	USG	3 SAFECOM SAFECOMS	Is submitted which . Reporting has in	cion rate at 67%. The account for 1% of 1 creased by 33% from a sed by 35%	DOI m FY14.

FY15 Aviation Overview



OAS

Burea	u	Annual Flight Hours	Annual flight Usage Cost	Cost per Flight Hour
OAS		183	\$ 142,182	\$ 778

These rates are associated to pay item codes associated to flight hours only, doesn't include monthly rates, availability, standby etc..

FY15 OAS Fleet Statistics

Manned Aircraft—1% of	1	OAS UAS Flights 2015			
Fleet Aircraft Age	I	Number of UAS missions	6		
0-10 Years	0	Locations	San Simon Arizona & Stafford Arizona		
11-20 Years > 21 Years Dual Function Pilots	0	Aircraft Sys- tem Type	T-Hawk and Super Bat		
(Inspectors) Pilots Pilots to Aircraft Ratio	16 1 17	Flight Hours	16.8		

OAS flight hours have decreased by 299% from FY14.



OSM has no flight information.

Office of Aviation Services

PERFORMANCE

Performance	Quantity
Program Evaluations completed	10
Interagency Safety Communications Issued	12
Student Hours of Training completed	95,781
Fleet Pilot Evaluations completed	330
Fleet Aircraft Inspections completed	86
Fleet Maintenance facilities inspections completed	8
UAS Operator Inspections	11
Commercial Pilot Evaluations	1,682
Commercial Aircraft Inspections	821
Point to Point Inspections	586
Fuel Service Vehicle Inspections	380
Cooperator Approvals	153
Technical Specifications for procurement reviewed and/ or created	174

FY15 Aviation Overview

Aircraft Mishap Review Board (AMRB)

DOI Bureaus and the Office of Aviation Services have intensified their efforts towards closing open Aircraft Mishap Review Board (AMRB) recommendations. These recommendations were the result of accidents that have claimed lives, caused injuries, and/or resulted in significant damage. AMRB recommendations are part of a bureau-led process aimed at preventing similar mishaps from reoccurring in the future.

OAS has been working closely with the Executive Aviation Subcommittee (EAS) to close key safety related recommendations.

In FY15, DOI AMRB recommendations have been reduced by 91% ! As of this date, only 13 AMRB recommendations remain open. Three Bureaus have closed out all of their assigned AMRB recommendations.

FY15 Aviation Program Evaluation Results & Performance

Location	Date	Result of	fReview
USGS—Northeast	12/14	5	Findings
NPS—Northeast	02/15	8	Findings
OSM—West	03/15	4	Findings
BLM—Idaho	03/15	5	Findings
FWS—Alaska	04/15	TBD	Findings
BLM—Montana	05/15	5	Findings
BSEE—Alaska	06/15	2	Findings
NPS—Alaska	09/15	TBD	Findings
FWS—Southwest	<u>09/15</u>	TBD	Findings
No Material Weaknes	Total 29	Findings	
Found			

OAS Training Division - IAS.GOV website Update

Since the enhanced IAT website was launched at the beginning of FY15, over 15,000 people have visited it. In the past year, students have been able to enroll in classes, view their training history, and check their compliance status for upcoming aviation missions. Instructors have posted classes and downloaded course materials from the site and managers have utilized their increased abilities to view training completions, check unit and individual employee compliance and enroll their employees in courses.

Advances made to the site in the past year include better page flows and communication options, as well as, displaying DOI fleet pilot transcripts and allowing Continued Education Units (CEU) uploads from a web page.

Plans for continued improvement in the upcoming year include:

- Displaying credit granted for external course equivalencies to IAT catalog courses, in both the student transcript and compliance reporting;
- User Manual, additional self help options;
- Coordinator tools for workshop events and RTs;
- Access to non-IAT catalog courses;
- Merge tool for duplicate accounts;
- Search options to identify qualified instructors for a specific course or geographic area.

As always, the IAT Support Team is interested in hearing your feedback.



Aviation Program Evaluation Overview

The OAS Operational Procedure Memorandum 6, Aviation Management Plans, identifying the minimum standardized elements for DOI Project Aviation Safety Plans (PASPs) was placed into policy in July 2014. This policy required PASPs would be developed for all special use missions. For those bureaus that perform similar special use aviation missions on a recurring or routine basis, the required PASP could be rolled into a station/unit aviation plan that is reviewed at least annually. In this instance, in place of a PASP the bureau must have a documented process to capture the unique and special circumstances (ex. dispatch log, passenger manifest). Project supervisors and management al's project responsibilities. Frequently, we -level project approvers are responsible for ensuring PASPs are completed. The Project supervisor should work closely with aviation managers in preparing these plans. The level at which a PASP is approved is based on the risk level as determined by the written risk assessment/ bureau approved SMS (Safety Management System) within the PASP.

There has been a noticeable improvement during FY 15 Departmental Program Evaluations in

the utilization of PASPs throughout the bureaus. Several bureaus with outdated Bureau Aviation Plans updated those plans to include the OPM-06 requirements. Although, there was the DOI ALSE Handbook." improvement in the development and use of PASPs, there are some areas still in need of improvement. Specifically, plans often lacked management approval and required additional, detailed information under each element. For example for required elements under "Participants" includes a list of individuals involved in flights, their qualifications (Helicopter Manager, Passenger, Helibase Manager, etc.), dates of last aviation training, and the individufound only a list of names without any qualification listed or last date of training. In some cases the individual listed failed to meet minimum training requirements after training records were reviewed. Another example included required Personal Protective Equipment (PPE) where the PASP needs to identify the protective equipment and clothing necessary for that particular operation. Survival equipment (extra water, flotation devices, sleeping bags, etc.) be-

yond the normal PPE complement may be also be required. Under this element documentation in the plan would be listed "required PPE in

All aviation missions require detailed project planning and many PASPs are improving. You should review past PASPs and identify areas for improvement while noting changes in terms of people, location, aircraft, environment and training requirements. This review should include members of the entire project team such as an aircraft manager, pilot, aircrew member, supervisors and others that might be working on the project. Also, using your aviation experts such as Unit, State and Regional Aviation Managers as a resource helps ensure your project plans contain essential elements that may be outside your normal view/daily responsibilities and that the plan is properly vetted. The ultimate goal is that it contains the required pre -work which is the foundation for safe and efficient operations.

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FY15 Safety Improvement Opportunities



Achievements

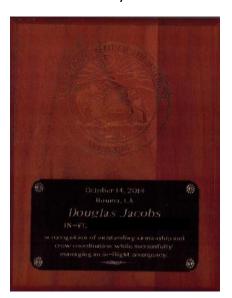
In-Flight Action Award

Jayson Danziger Contract Pilot Bureau of Safety and Environmental Enforcement

Douglas Jacobs Contract Pilot Bureau of Safety and Environmental Enforcement

John Mouton BSEE Inspector Bureau of Safety and Environmental Enforcement

Graeme Evans Contract Pilot Bureau of Safety and Environmental Enforcement



Secretary's Award for Outstanding contribution to Aviation Safety

This award is established to recognize an individual, group, or organization for outstanding contribution to aviation safety or aircraft accident prevention. This individual successfully helped secure state of the art aircrew safety-enhancing equipment for branch aircraft, which greatly enhanced the overall flying safety of BMBS aircrew members who perform aerial surveys in often very remote regions of North America for many years to come.

> Mark Koneff Fish and Wildlife Service

Airwards

Jason Glynn Regional Operations Manager Bureau of Safety and Environmental Enforcement

Alan Bell Contract Pilot Bureau of Safety and Environmental Enforcement

David Meyers Oil and Gas Operator Bureau of Safety and Environmental Enforcement

Dennis Geving Bureau of Land Management

William James Office of Aviation Services





DOI Accident Free Pilots



Recognizing Excellence

Pilot Spotlight

David Sowards, Fish and Wildlife Service

Dave decided to become a pilot when working for a surveying company in northwest Alaska during the summer of 1977. Every morning Dave and the other surveyors were flown to a remote site where they spent the entire day walking across the tundra, crossing swamps, and swatting mosquitoes. After the pilot dropped off the survey crews, he would pick up the aircraft mechanic and they would go fishing until late in the day when it was then time to return and pick up the surveyors. That was when he decided to start a career in aviation.

In January 1978, Dave enrolled in the Aviation Maintenance Technician course at the Spartan School of Aeronautics in Tulsa, Oklahoma. After about 6 months of school, Dave decided that if he was going to work on air-craft he should also get his pilot license. Dave passed his private pilot check ride in July 1978, flying a Grumman TR-2. During the last 6 months of school Dave started working during the day and going to school at night. He worked in the sheet metal shop at Allied Helicopters rebuilding Bell 47 helicopters that were used for spraying crops in South America.

In 1979, Dave headed to Alaska for a summer job with 40 Mile Air in Tok, Alaska. The company had a Beaver, Seneca, Super Cubs, Helio Couriers, Cessna 206's and a 185. Dave was surprised to learn that he was the only mechanic on the payroll. When Dave told the owner that he was fresh out of school and that some airplanes he knew nothing about, the owner said "that's OK, we know a little bit about airplanes up here".

At the end of the summer they offered Dave a full time position starting the following April on the condition that he obtain commercial and instrument ratings.



Pictured left to right: Brian Glaspell (Former Manager Arctic Refuge), Anne Marie La Rosa (Former Deputy Manager Arctic Refuge), Sally Jewel (Secretary of the Interior), Dave Sowards.

Dave showed up in April with his commercial and instrument ratings ready to be a Alaska pilot. He spent the next six years at 40 Mile flying all types of aircraft: skis, wheels, and floats. At the end of three years Dave earned his Inspection Authorization and became the Director of Maintenance.

One of his most memorable flights was when he was flying a Seneca to Fairbanks on a medevac flight. On board was a pregnant woman and two emergency medical technicians. As they were flying over Big Delta, the baby was born.

On January 20 1985 Dave accepted a job flying for the Tetlin National Wildlife Refuge. The Refuge had a brand new Super Cub. In the first year, they flew over 800 hours.

Pilot Spotlight cont.

Dave moved to Fairbanks on January 20 1988 to fly for the Arctic National Wildlife Refuge. The Refuge had a Cessna 185 (still in use today) and a Super Cub. Dave would fly the Super Cub, spring, summer and fall and then fly the Cessna 185 in the winter months. Dave and another Refuge pilot were the only two pilots at the Refuge so they would live at Barter Island 8 months of the year, then come back just long enough for a 100 hour inspection on the aircraft and back up on the slope. Dave flew for the Polar Bear project working on the pack ice, where a majority of the flying was in the Yukon and the Northwest territories.

Dave has also had his share of excitement. During a moose survey on the north side of the Brooks Range, the Super Cub he was flying developed severe vibrations. When Dave landed on a frozen lake to determine the cause of the vibrations, he discovered that about 3 inches of the propeller tip was missing. They were flown out that night by helicopter, but when they came back the next day with a new propeller, they discovered one of the tubes on the motor mount had broken. Being a resourceful A&P, Dave used hose clamps to fix the broken tube and then flew the airplane back to Fairbanks.

Three months later, while at Barter Islands, the wind was blowing 90 mph. The Cessna 185 was parked on the flight line and they couldn't get down to the airport to see how it was handling the wind since the roads were closed. On the 3rd day the winds let up enough to fly back to Fairbanks. The airplane survived the windstorm but Dave decided to take a trip around the airport traffic pattern to make sure the airplane was airworthy. After takeoff Dave felt the aircraft shudder and couldn't stop the control yoke from traveling from stop to stop, full left aileron to full right aileron. When he looked out the right window he saw that the right aileron had torn loose from the wing and was hanging vertical from the inboard aileron hinge.

The airplane wanted to roll to the right, so it took full left aileron and rudder to keep airplane level. Fortunately, Dave was able to get the aircraft in position and landed safely. I turns out that the inside of the ailerons had become packed with snow during the storm that resulted in flutter from being out of balance condition.

Dave remembered that after seeing the aileron hanging vertical, he never looked out that window again until on the ground. As he put it: If you don't like what you see, don't look!

Dave says that flying for the Arctic Refuge is no doubt one of the best flying jobs in the state. There is always new country to see and many fine people to work with.

In June of 2015 Dave became the OAS Aviation Trainer for the Alaska Region. While he is looking forward to this new position, Dave said that he will gladly help the Arctic Refuge whenever they need an extra pilot.

On December 5, 2005 Dave was awarded the Secretary's Award of Honor: Twenty years and 10,575 hours.

Dave Sowards – a DOI aviation professional.

Ratings:

- A&P Mechanic with an Inspection Authorization
- Flight Instructor, Single Engine, Instrument
- ATP Airplane Single Engine Land
- Commercial privileges, Airplane single engine sea, Airplane Multi Engine land
- Flight time: 18,000 plus hours, divided between Super Cub, 185, and a 206. Over 2,000 hours on floats.

FY15 DOI Annual Aviation Safety Summary

EXECUTIVE SUMMARY Take Away Sheet

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Flight Mishaps Flight Mishap Rate 10.30 15 47.5 of Mishaps 40 35 2.5 Mishap Rate 30 25 Number 20 15 10 DOI 5 year AVG otal 0.5 5 6 812.4 BOEM 808 INSEE **FWS** NES WP's - Mishap Rate Accidents (Includes Unmanned Aircraft Systems)

4 Accident and 3 Incidents with Potential

DOI Flight Usage Cost

Cost associated with flight hours only

	Annual flight Usage Cost	Annual Flight Hours	Cost per Flight Hour
Fleet	\$ 6,594,403	17,116	\$ 385
Contract	\$ 49,982,908	41,153	\$ 1,215
Total Usage	\$ 56,577,310	58,269	\$ 971

POLICY: In FY15, DOI AMRB recommendations have been reduced by 91% ! As of this date, only 13 AMRB recommendations remain open. Three Bureaus have closed out all of their assigned AMRB recommendations. Well done!

POLICY: OPM-6 is alive and well. Be sure to read about PASPs and look for best practices within your mission and geographic areas. Attention to the details ensures mission success and safety.



RISK MANAGEMENT: SAFECOM Reporting Success; because

one person learned of a safety issue and submitted a SAFECOM, many DOI, USFS and external agency personnel who share the SAFECOM system became aware and took action.

ASSURANCE: 100% of all Plan Of Action and Milestones (POAMs) have been completed for aviation program evaluations conducted to date in accordance with OAS's ISO 9001-2008 process requirements.

ASSURANCE: 29 Aviation Program Evaluation findings were found among 5 bureaus.

ASSURANCE: SAFECOM reporting has decreased this year demonstrating a need for continual safety awareness.

PROMOTION: In flight awards were given to Graeme Evans, John Mouton, Douglas Jacobs and Jayson Danziger for the second consecutive year with Bureau of Safety and Environmental Enforcement. Several Airwards for BLM, BSEE and OAS were also awarded.

PROMOTION: Bureaus maintaining excellence in aviation safety through their continuous accident-free years record include: BSEE-41 years; OSM-29 years; BOR-18 years; USGS-9 years; BOEM-3 years.

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