

The Year in Safety – and current trends

BASS - May 2018

18/05/2018

Using the BASS 2018 app



Starting from the app's main menu



To Participate, look for the link to Polling/Q&A in Session Details, or visit fsf.cnf.io in your browser









- 2017 The commercial world
 - Trends Long Term
 - The last full Calendar year
- 2017 Business Aviation
 - Trends Long Term
 - The last full Calendar year
- Status of Safety According to whom?
 - Accident Data ASN Data, ICAO Data, IATA Data, Boeing, Airbus,
 - Risk Data FSF, FAA, EASA, NBAA
- What is left to work on? Plenty

The long history on fatal accidents





Steady
Worldwide
Progress on
reducing fatal
accident
events

Aviation**Safety**Network

Statistics are based on all worldwide commercial (cargo and passenger) fatal accidents involving civil aircraft with a minimum capacity of 14 passengers from the ASN safety database https://aviation-safety.net

The last 40 years on all fatal accidents





2017 concluded with approximately .23 accidents per million flights

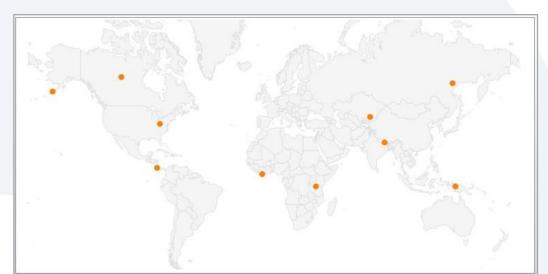


Statistics are based on all worldwide commercial (cargo and passenger) fatal accidents involving civil aircraft with a minimum capacity of 14 passengers from the ASN safety database https: //aviation-safety.net

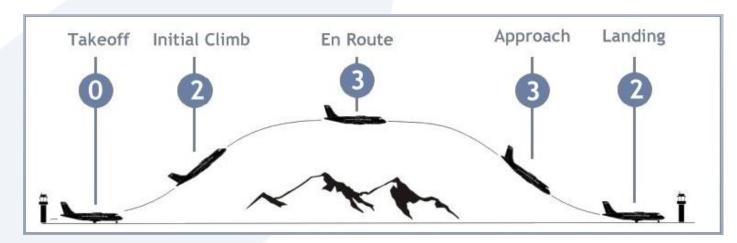
2017 Fatal Accident Results



independent • impartial • international









Statistics are based on all worldwide commercial (cargo and passenger) fatal accidents involving civil aircraft with a minimum capacity of 14 passengers from the ASN safety database https: //aviationsafety.net

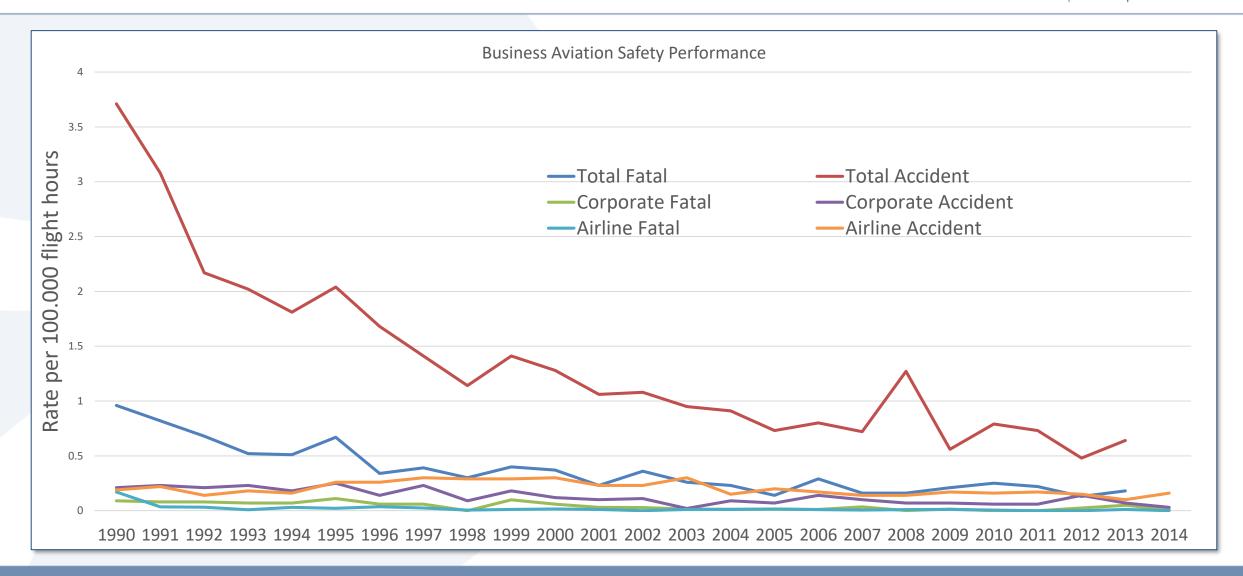
Business Aviation



- - Commercial air transport operation. An aircraft operation involving the transport of passengers, cargo or mail for remuneration or hire. <a>I
 - General aviation operation. An aircraft operation other than a commercial air transport operation or an aerial work operation.
 - Aerial work. An aircraft operation in which an aircraft is used for specialized services such as
 agriculture, construction, photography, surveying, observation and patrol, search and rescue,
 aerial advertisement, etc.
- **Business aviation** is the use of any "general **aviation**" **aircraft** for a **business** purpose. The Federal **Aviation** Administration defines general **aviation** as all flights that are not conducted by the military or the scheduled airlines.

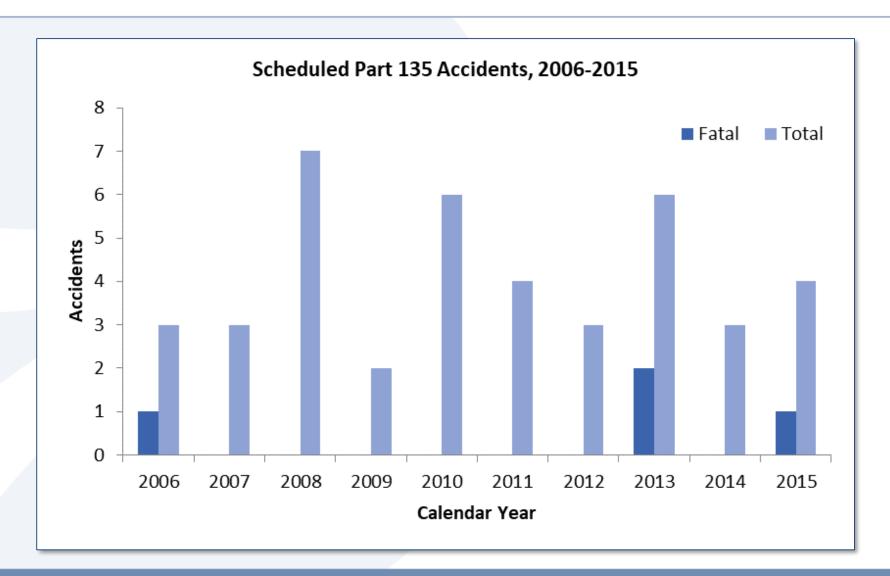
NBAA Website — data source Robert E. Breiling Associates Inc





U.S. Commuter and On-Demand Operations

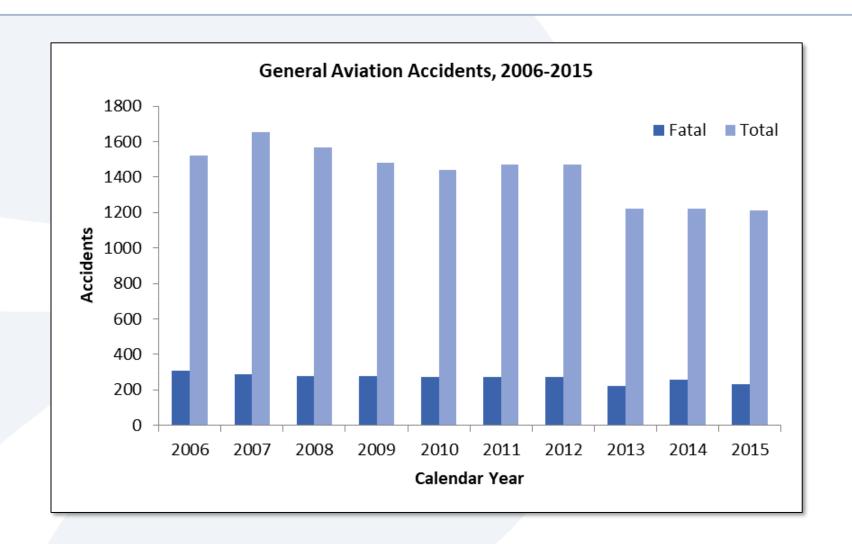




Source: NTSB website

U.S. General Aviation Safety Statistics

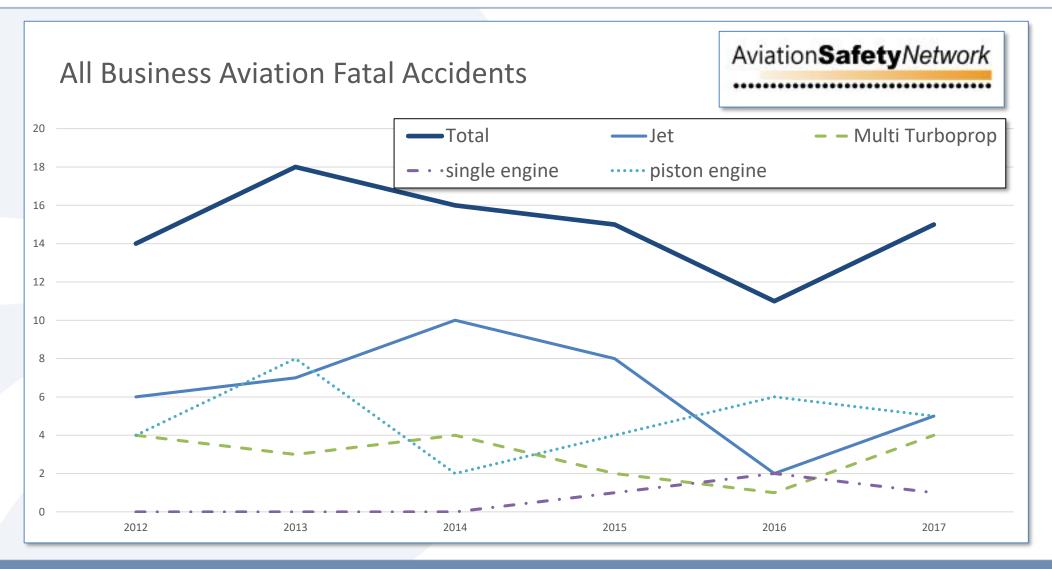




Source: NTSB website

6 Year Performance – International Operations





2017 Business Aviation Performance



According to AIN – there were two fatal crashes by N-numbered bizjets in 2017 and 2016.

Nonfatal accidents of Part 91 decreased by about 50 percent,
 Part 135 jets remained unchanged year-over-year, and the one
 Part 91K nonfatal mishap in 2017

2017 Business Aviation Fatal Accidents Worldwide



	Date	Туре	MTOGW	Engine Type	Reg #	Оре	erator Fat. Location	Country
	<u>23-Jan-</u> :	Aircraft Engine		2 turboprop engines	N385KA	KAA	Countries where	USA
	L5 Eve	nts		2 turboprop engines	VH-ZCR	Cor	accident occurred	Australia
L		1103		2 jet engines	N8DX	She		USA
	<u>27-Mar-</u>	Fist ongine		2 piston engines	C9-AOV	EU I	3 USA	Zimbabwe
	<u>15-May-</u>	5 jet engine		2 jet engines	N452DA	A&(3 U3A	USA
		4 multi turbopr	on			Trar	2 Russia	
	<u>17-May-</u> :	4 muiti turbopi	ob	2 jet engines	XA-VMC	Aer	Z 11u33ia	Mexico
	<u>25-Jul-</u> :	1 single turbop	ron	2 piston engines	8R-GRA	Rora	1 Australia, Zimbabwe,	. Guyana
	<u>19-Aug-</u>	I single turbop	TOP	2 jet engines	YV3191	Unk	i Adstralia, Zillibabwe,	Venezuela
	<u>3-Oct-</u> :	5 piston engine	es	2 turboprop engines	UP-A2807	East	Mexico, Guyana,	Kazakhstan
	<u>12-Oct-</u>			2 turboprop engines	D2-FDO	Gui	Venezuela, Kazakhstan,	Angola
	<u>17-Oct-</u>			1 turboprop engine	PR-MPE	Gre	Angola, Brazil, Germany,	Brazil
	<u>7-Nov-</u>			1 piston engine	RA-02305	Dal	Papa New Guinea	Russia
	<u>14-Dec-</u>			2 jet engines	OE-FWD	Skyt	rapa riett camea	Germany
	<u>19-Dec-</u>			1 piston engine	RA-01460	Nar		Russia
	23-Dec-			1 piston engine	P2-ISM	Nor		Papua New
								Guinea
						L		J

2018 Performance Business Aviation

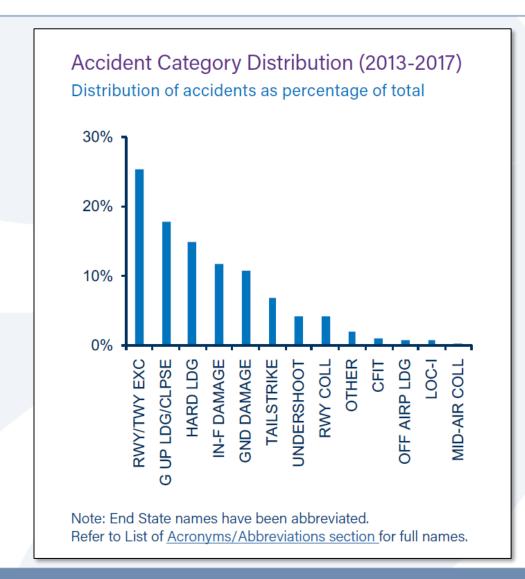


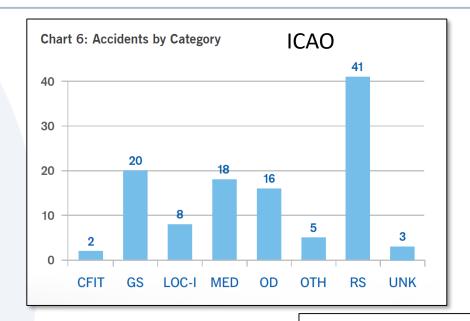
- Only 1 Fatal Accident has occurred in 2018 so far
- A Turkish Challenger 604 corporate jet impacted a mountain near Shahr-e Kurd in Iran, killing all 11 on board. The aircraft operated on a flight from Sharjah, UAE to Istanbul, Turkey.

Accident Categories – 2016 Results All Accidents



independent • impartial • international





Accident Categories						
CFIT	Controlled Flight into Terrain					
GS	Ground Safety					
LOC-I	Loss of Control in-Flight					
MED	Injuries to and/or Incapacitation of Persons					
OD	Operational Damage					
ОТН	Other					
RS	Runway Safety					
UNK	Unknown					

NBAA 2018 Top Safety Issues



- Loss of Control Inflight (LOC-I)
- Runway Excursions
- Single-Pilot Operation
- Procedural Compliance
- Ground Handling and Taxi Incidents
- Distraction Management

- Scenario- and Risk-Based Training and Checking
- Positive Safety Culture Promotion
- Inflight Aircraft Collision Risk
- Workforce Competency and Staffing
- Safety Data Sharing and Utilization

Flight Safety Foundation – Key Safety Issues



- CFIT Events
- LOC
- Mechanical Issues
- Runway Safety (Excursion)
- Sabotage / Intentional Acts

- Mid Air Collision
- Runway Safety (Collision)
- Wildlife Issues
- Cabin Safety
- Fatigue

Emerging External Threats

- Lithium Batteries
- RPAS/UAS
- Infrastructure and Capacity
- Lasers
- Cyber Security

Accident History is getting smaller



How do we know the proportion of visible threats to latent threats remains the same?

