

Aviation Safety 2008

The Year In Review

FLIGHT
SAFETY



F O U N D A T I O N

Jim Burin

Director of Technical Programs

The Fleet – 2008

<u>Type</u>	<u>Western Built</u>	<u>Eastern Built</u>	<u>Total</u>
Turbojets	19,277	1,656	20,933
Turboprops	4,830	1,588	6,418
Business Jets			15,055

Major Accidents Commercial Jets

1 January 2007 to 31 December 2007

Date	Operator	Aircraft	Location	Phase	Fatal
1 January	Adam Air	B-737	Sulawsui, Indonesia	En route	102
7 January	RCA Europe	F-100	Pau, France	Takeoff	0
13 January	RPX Airlines	B-737	Kuching, Malaysia	Landing	0
13 February	Fort Aero	CRJ-100	Vnukovo, Russia	Takeoff	0
21 February	Adam Air	B-737	Surabaya, Indonesia	Landing	0
7 March	Garuda	B-737	Yogyakarta, Indonesia	Landing	22
17 March	UT Air	TU-134	Samara, Russia	Landing	6
5 May	Kenya Airways	B-737	Douala, Cameroon	Takeoff	114
20 May	Air Canada Jazz	CRJ-100	Toronto, Canada	Landing	0
28 June	TAAG Angola	B-737	M'Banza Congo, Angola	Landing	5
17 July	TAM	A-320	Congonhas, Brazil	Landing	187
17 July	AeroRepublica	EMB-190	Santa Marta, Colombia	Landing	0
20 August	China Airlines	B-737	Naha, Okinawa, Japan	Post-Taxi	0
16 September	One-Two-Go Airline	MD-82	Phuket, Thailand	Landing	90
26 October	Philippine Airlines	A-320	Butuan, Philippines	Landing	0
9 November	Iberia	A-340	Quito, Equador	Landing	0
30 November	Atlasjet Arilines	MD-83	Ispara, Turkey	Approach	57

Major Accidents Commercial Jets 1 January 2008 to 1 October 2008

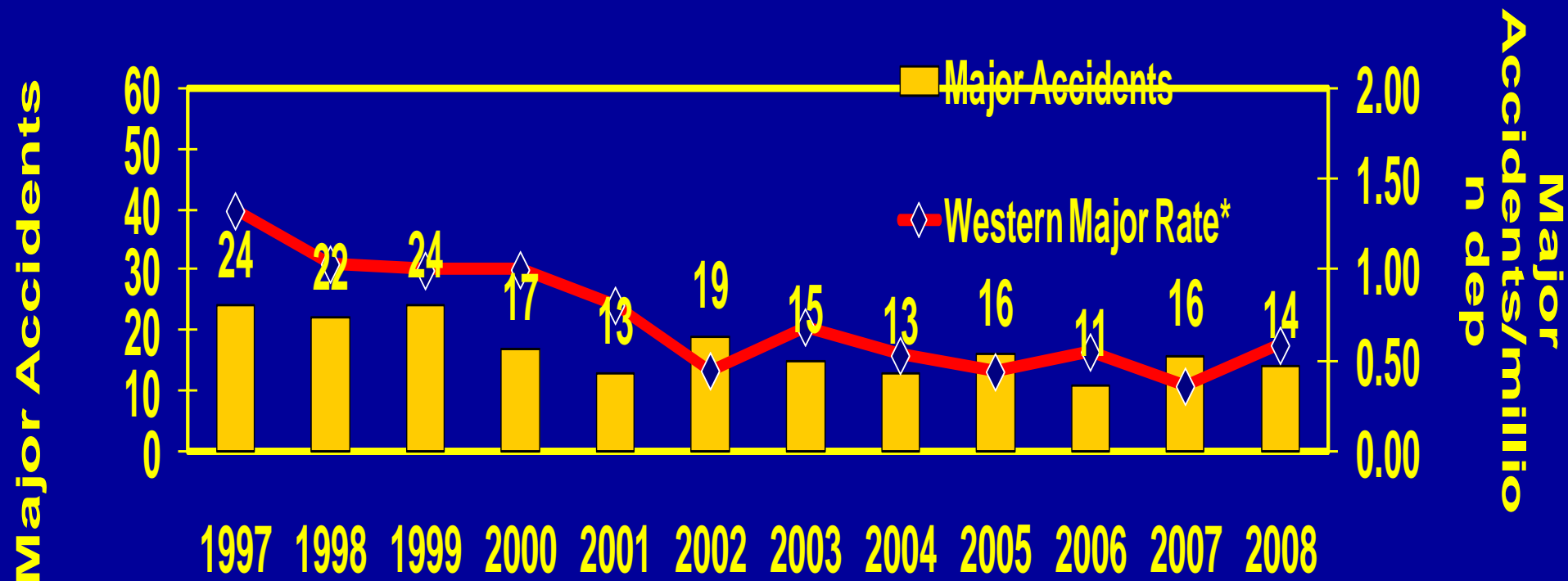
Date	Operator	Aircraft	Location	Phase	Fatal
2 Januray	Iran Air	F-100	Shiraz, Iran	Takeoff	0
17 January	British Airways	B-777	London, England	Landing	0
1 February	LAB	B-727	Trinidad, Bolovia	Enroute	0
14 February	Belivia	CRJ-100	Yevervan, Armenia	Takeoff	0
15 April	Hewa Bora Airways	DC-9	Goma, DRC	Takeoff	3
25 May	Kalitta Air	B-747	Brussels, Belgium	Takeoff	0
30 May	TACA	A-320	Tegucigalpa, Honduras	Landing	3
10 June	Sudan Airways	A-310	Khartoum, Sudan	Landing	29
30 June	Ababeel Aviation	IL-76	Khartoum, Sudan	Takeoff	4
6 July	USA Jet Airlines	DC-9	Saltillo, Mexico	Approach	1
7 July	Kalitta Air	B-747	Bogota, Colombia	Takeoff	0
20 August	Spanair	MD-82	Madrid, Spain	Takeoff	154
24 August	Itak-Air	B-737	Bishkek, Kyrgyzstan	Approach	65
30 August	Conviasa	B-737	Toacaso, Ecuador	Enroute	3
14 September	Aeroflot Nord	B-737	Perm, Russia	Approach	81

Source: Ascend

Major Accidents

Worldwide Commercial Jets

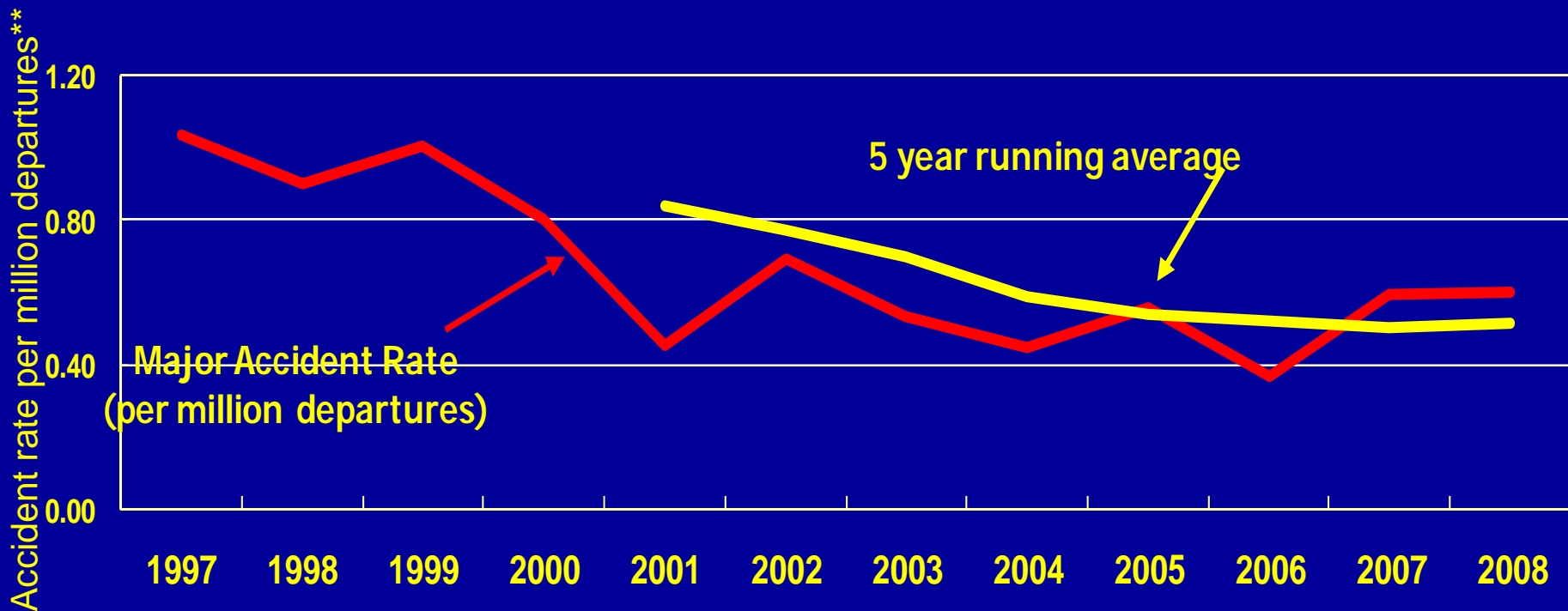
1997 – 2008



Major Accident Rate

Western-Built Commercial Jets

1997 – 2008



** Worldwide departure are estimated

Reliable total departure data not available for Eastern-Built Aircraft

Major Accidents Business Jets

1 January 2008 to 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
1 February	Symons Living Trust	Citation I	Augusta, Maine, USA	Climb	2
18 February	Avion Sales	Citation III	Venezuela	En route	3
4 March	Southwest Sports Clinic	Citation I	Oklahoma City, USA	Takeoff	5
4 March	Confort Vuela	HS125-800	Monterrey, Mexico	Landing	0
30 March	Relton Muse Aviation	Citation I	London, UK	Climb	5
12 June	FAI Rent-A-Jet	Lear 35	Kisangani, DRC	Takeoff	0
30 July	My Aviation	Eclipse 500	West Chester, PA, USA	Takeoff	0
31 July	East Coast Jets	Hawker 800	Owatonna, MN, USA	Approach	7
19 September	Inter Travel and Svcs	Lear 60	Columbia, SC, USA	Takeoff	4

Major Accidents

Commercial Turboprops (> 14 seats)

1 January 2008 to 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
4 January	Transaven	LET-410	Caracas, Venezuela	Descent	0
14 January	Alpine Aviation	B-1900	Lihue, Hawaii, USA	Landing	1
25 January	Aero Servis	AN-12	Point Noire, Congo	Landing	0
26 January	Dirgantara Air Svcs	CASA 212	Indonesia	Enroute	3
21 February	Santa Barbara Airlines	ATR-42	Venezuela	Climb	46
6 March	Manunggal Air	Transal C-160	Wamena, Indonesia	Landing	0
15 March	Wings Aviation	Beech 1900	Nigeria	En route	3
19 March	Cirrus Airlines	DO-328	Mannheim, Germany	Landing	0
3 April	Blue Wing Airlines	AN-28	Benzdrop, Suriname	Approach	19
9 April	Avtex Aviation	Metroliner III	Bundeena, Australia	Climb	1
11 April	Kata Air Transport	AN-32	Chisinau, Moldova	Landing	8
21 April	RICO Linhas Aereas	Bandeirante	Coari, Brazil	En route	0
2 May	Flex Air	Beech 1900	Rumbek, Sudan	En route	21
23 May	Alpine Aviation	Beech 1900	Billings, Montana, USA	Takeoff	1
26 May	Moskovia Aviation	AN-12	Chelyabinsk, Russia	Climb	9
26 May	Great Lakes	AN-32	Goma, DRC	Landing	0

Source: Ascend

Major Accidents

Commercial Turboprops (> 14 seats)

1 January 2008 to 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
15 June	China Flying Dragon	Y-12	Chifeng, China	En route	3
18 June	Wiggins Airways	DHC-6	Hyannis, MA, USA	Takeoff	1
27 June	Juba Air Cargo	AN-12	Malakal, Sudan	En route	7
10 July	Aerocord	Beech 99	Puerto Montt, Chile	Takeoff	9
14 July	Maldivian Air Taxi	DHC-6	Maldives	Landing	0
16 July	North-Wright Airways	DHC-6	Hook Lake, Canada	Approach	0
13 August	Fly540	F-27	Mogadishu, Somalia	Approach	3
1 September	AirServ International	B-1900	Bukavu, DRC	Approach	17
1 September	Air Tahoma	CV-580	Columbus, Ohio, USA	Approach	3



Controlled Flight into Terrain Major Accidents

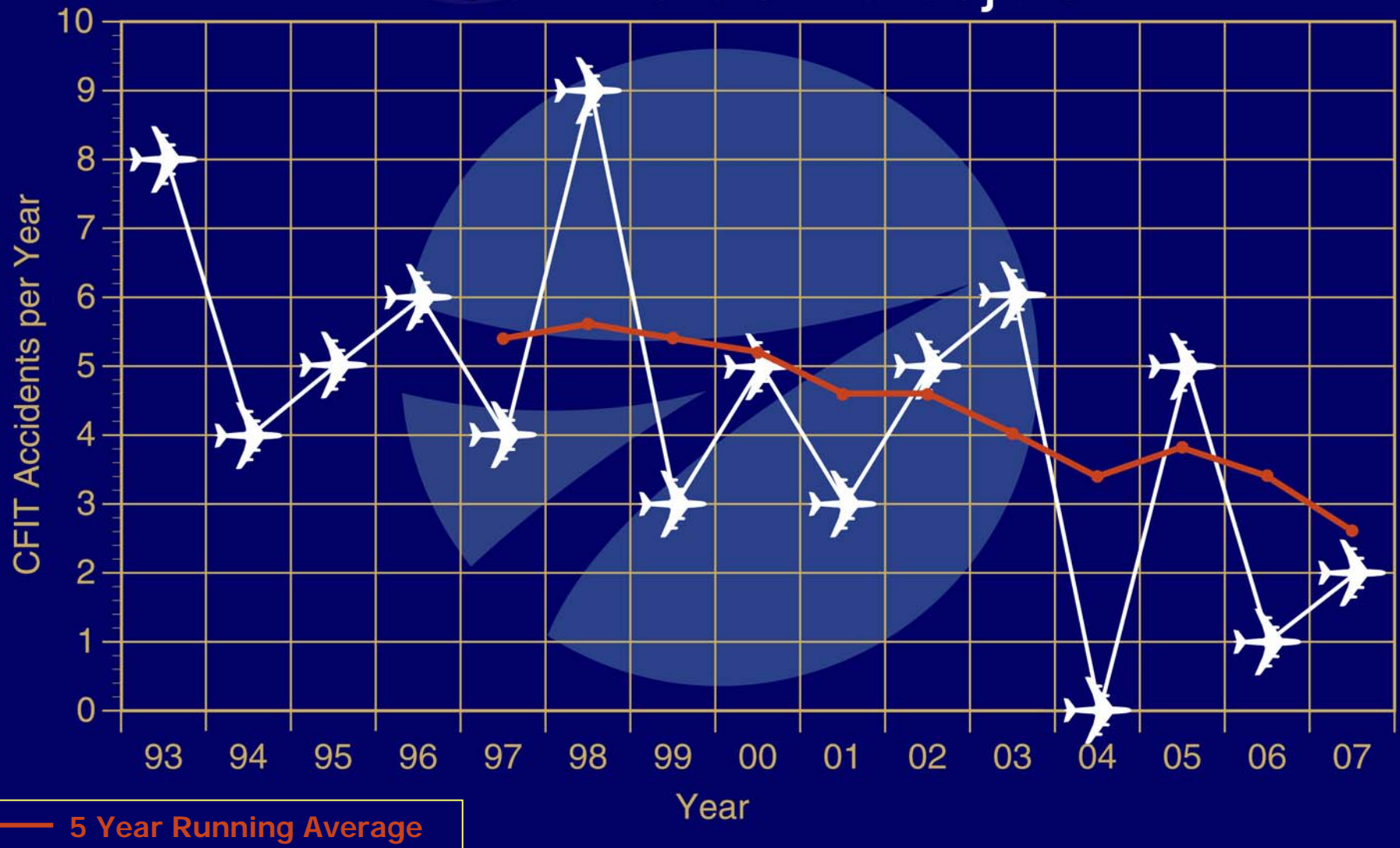
Commercial Jets

1 January though 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
24 August	Itak-Air	B-737	Bishkek, Kyrgyzstan	Approach	65
30 August	Conviasa	B-737	Toacaso, Ecuador	En route	3

CFIT

All Commercial Turbojets



Approach and Landing Major Accidents Commercial Jets

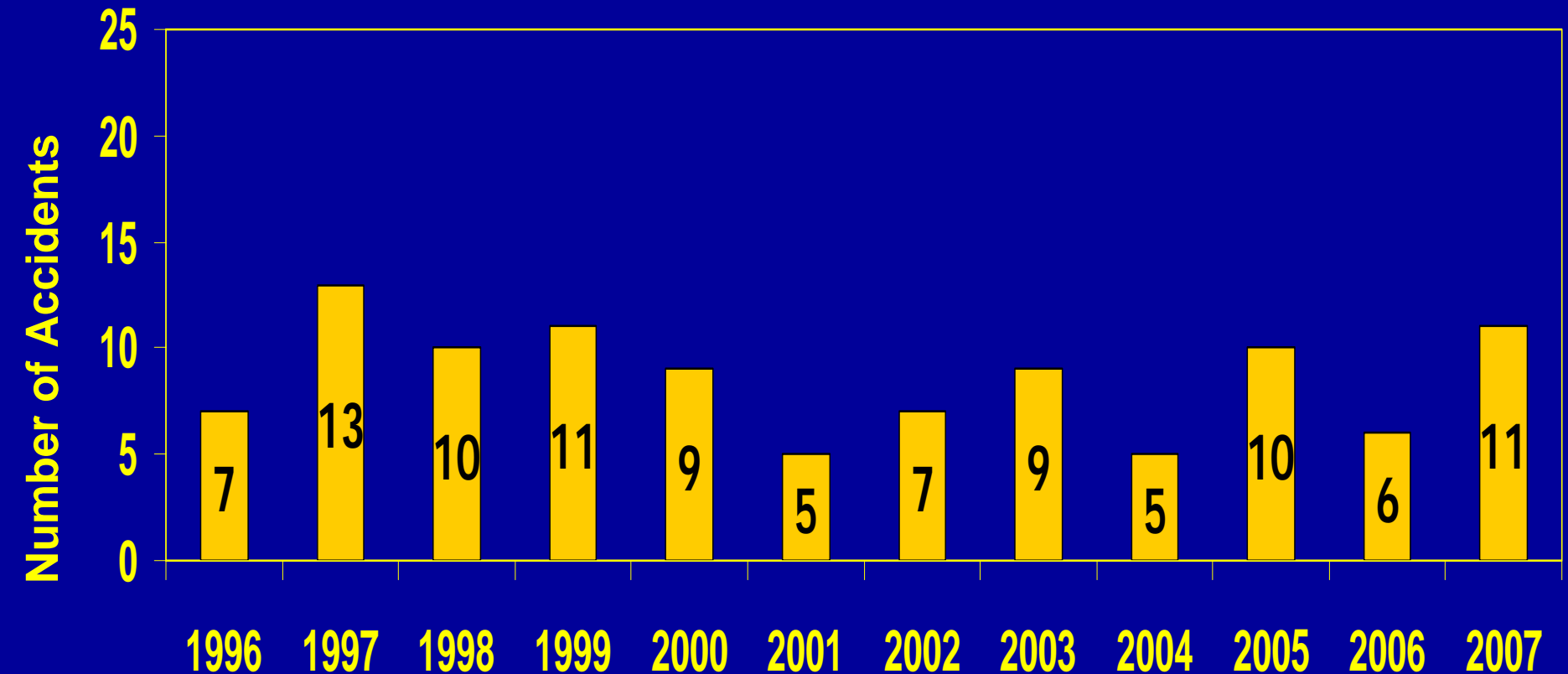
1 January through 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
30 May	TACA	A-320	Tegucigalpa, Honduras	Landing	3
10 June	Sudan Airways	A-310	Khartoum, Sudan	Landing	29
6 July	USA Jet Airlines	DC-9	Saltillo, Mexico	Approach	1
24 August	Itak-Air	B-737	Bishkek, Kyrgyzstan	Approach	65
30 August	Conviasa	B-737	Toacaso, Ecuador	En route	3
14 September	Aeroflot Nord	B-737	Perm, Russia	Approach	81

Approach and Landing Major Accidents

Commercial Jet Airplanes

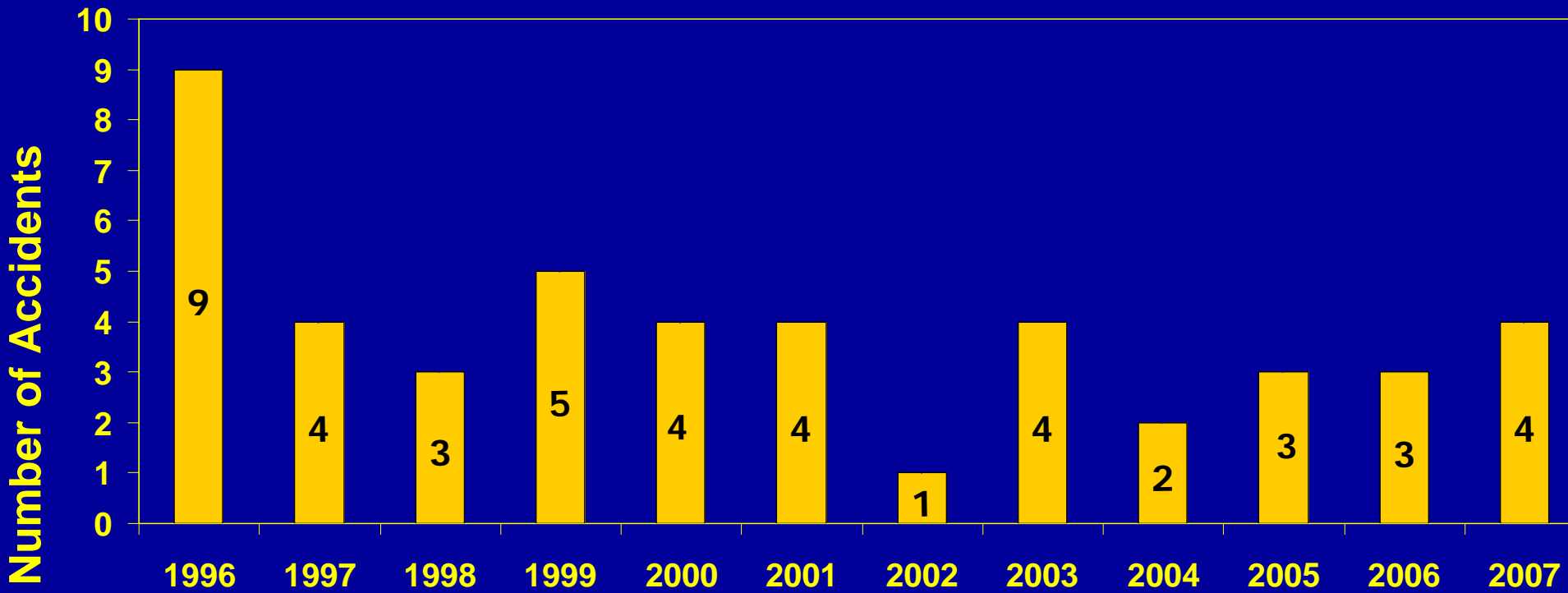
1996 Through 2007



Loss of Control Major Accidents

Commercial Jets

1996 through 2007



Loss of Control Major Accidents Commercial Jets 1 January through 1 October 2008

Date	Operator	Aircraft	Location	Phase	Fatal
2 January	Iran Air	F-100	Shiraz, Iran	Takeoff	0
14 February	Belivia	CRJ-100	Yeverevan, Armenia	Takeoff	0
6 July	USA Jet Airlines	DC-9	Saltillo, Mexico	Approach	1
20 August	Spanair	MD-82	Madrid, Spain	Takeoff	154
14 September	Aeroflot Nord	B-737	Perm, Russia	Approach	81

Safety Challenges

Safety Culture

Safety Culture

- **Safety Culture:**

The shared values, beliefs, assumptions, and norms that govern decision making and that may affect individual and group attitudes about risk, safety, and the proper conduct of hazardous operations.

- **Safety Culture:**

“The way we do things around here”

-or-

What you do when no one is watching











SMOKING
PROHIBITED

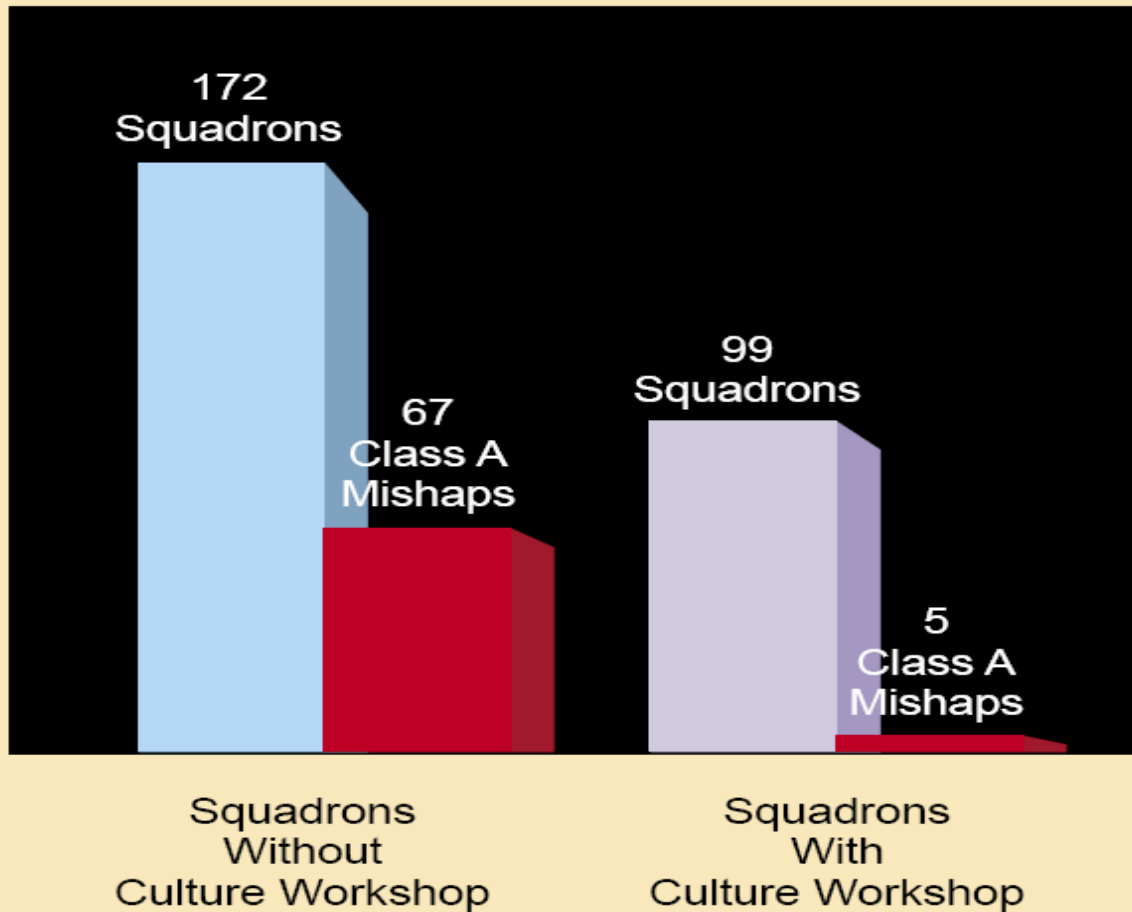








Navy Safety Culture Assessment



2002 – 2004

93% of Class A (serious) mishaps occurred in squadrons not participating in the Safety Culture Assessment Program.

The program is now mandatory



Aviation Safety 2008

An average to below average year for all segments of professional aviation

Commercial jet loss of control accidents dominate the fatality numbers

Where are the lessons learned being learned ?

The challenge of creating a positive safety culture is a significant one

FSF Goal:

**Make Aviation Safer by
Reducing the Risk of an Accident**