



Australian Government  
Australian Transport Safety Bureau



# Aviation Safety Research and Analysis Publications

1984 to June 2011

## Subject Areas

Aviation Safety Statistics .....	1
Avoidable Accidents Series .....	2
Bird and Wildlife Strikes .....	2
Cabin Safety and Passenger Information .....	2
Engineering .....	2
Human Factors .....	3
Airspace .....	4
Medical .....	4
Operational .....	5
Investigation Methods .....	6
Organisational .....	6

Since 1984, the Australian Transport Safety Bureau and the former Bureau of Air Safety Investigation have produced numerous aviation research and education reports. This brochure lists those reports in chronological order and arranged by the broad topic area. All reports are available electronically on the ATSB internet site <[www.atsb.gov.au](http://www.atsb.gov.au)> and hard copies are available on request. This brochure will be updated annually.

## Aviation Safety Statistics

Title	Date of Publication	Report Number
Aviation Occurrence Statistics 2001 to 2010	20-May-11	AR-2011-020
Safety issues and safety actions identified through ATSB transport safety investigations: 2009-2010 financial year	21-Apr-11	XR-2010-001
Aviation occurrence statistics: 1 January 1999 to 31 December 2009	31-May-10	AR2009016(3)
Aviation occurrence statistics: 1 January 1999 to 30 June 2009	28-Aug-09	AR-2009-016(2)
Australian Aviation Safety in Review: 1998 to 2007	30-Jun-09	AR-2008-079
Aviation statistics: 1 January 1999 to 31 March 2009	29-Apr-09	AR-2009-016(1)
Trends in immediately reportable matters involving charter operations 2001 to 2006	1-Mar-09	AR-2007-057
Second edition: Australian aviation safety in review: 2002 to 2006	26-Jun-08	AR-2007-061
Trends in immediately reportable matters involving regular public transport operations	20-Dec-07	B2007/0107
Fixed and rotary-wing aircraft accidents involving private operations	28-Jun-07	B2007/0099
Australian aviation safety in review	23-Mar-07	
ATSB transport safety research report fatal aircraft accidents: Far North Queensland in context	1-Nov-06	B2006/0034
International fatality rates: A comparison of Australian civil aviation fatality rates with international data		B2006/0002
Analysis of fatality trends involving civil aviation aircraft in Australian airspace between 1990 and 2005	11-Aug-06	B2005/0388
Aviation safety indicators 2005 - A report on safety indicators relating to Australian aviation	14-Mar-06	B2005/0046
Cross modal safety comparisons	26-Jun-05	
General aviation fatal accidents: How do they happen? A review of general aviation fatal accidents 1991 to 2000	1-Jan-05	B2004/0010
Aviation safety indicators: A report of system safety indicators relating to Australian aviation industry 2002	20-Jun-04	
Aviation safety indicators: A report of system safety indicators relating to Australian aviation industry 1997	Nov-03	
Survey of Australian agricultural aviation accidents and incidents 1986-1995	Sep-97	SAB/IP/97/01
Aviation safety indicators	Feb-97	
Aviation safety indicators: A report of system safety indicators relating to Australian aviation industry 1996	Dec-96	
Survey of Australian agricultural aviation accidents & incidents 1985-1992	1996	SAB/IP/95/03
Australian helicopter accidents 1969-1988	Jul-95	
Australian aviation occurrences involving fuel starvation and exhaustion 1969-1986	Sep-89	87116

## Avoidable Accident Series

Title	Date of Publication	Report Number
Avoidable Accidents No. 4 - Visual Flight Rules into Instrument Meteorological Conditions (VFR into IMC)	July-11	AR-2011-050
Avoidable Accidents No. 3 - Managing partial power loss after takeoff in single-engine aircraft	27-Jun-11	AR-2010-055
Avoidable Accidents No. 2 - Wirestrikes involving known wires: A manageable aerial agriculture hazard	8-Jun-2011	AR-2011-028
Avoidable Accidents No. 1 - Low-level flying	1-Mar-10	AR-2009-041

## Bird and Wildlife Strikes

Title	Date of Publication	Report Number
Australian aviation wildlife strike statistics: Bird and animal strikes 2002 to 2009	30-Jun-10	AR-2009-064
An analysis of Australian birdstrike occurrences 2002 to 2006	30-Jun-08	AR-2008-027
Forensic identification of aviation bird strikes in Australia	30-Jun-06	B2005/0117
The hazard posed to aircraft by birds	19-Mar-03	
Reported bird strikes in Australia	Nov-96	

## Cabin Safety and Passenger Information

Title	Date of Publication	Report Number
Aircraft depressurisation: Cabin crew information bulletin	30-Jan-09	AR-2008-075(2)
Staying safe during an aircraft depressurisation		
Passenger information bulletin	12-Dec-08	AR-2008-075(1)
Staying safe against in-flight turbulence	30-Jun-08	AR-2008-034
Passenger health - The risk posed by infectious disease in the aircraft cabin	10-Jun-08	AR-2007-050
Public attitudes, perceptions and behaviours towards cabin safety communications	13-Jul-06	B2004/0238
Evacuation commands for optimal passenger management	2-May-06	B2004/0239
Child restraint in aircraft	21-Mar-06	B2004/0241

## Engineering

Title	Date of Publication	Report Number
An overview of human factors in aviation maintenance	23-Dec-08	AR-2008-055
Fibre composite aircraft - capability and safety	9-Jun-08	AR-2007-021
Aircraft reciprocating-engine failure: An analysis of failure in a complex engineered system	22-Nov-07	B2007/0191
Robinson R22 helicopter aerial mustering usage investigation	2-Oct-07	B2004/0292
Fire safety of advanced composites for aircraft	2-May-06	B2004/0046
Investigation into Ansett Australia maintenance safety deficiencies and the control of continuing airworthiness of Class A aircraft	17-Nov-02	BS2001/0005
ATSB systemic investigation into fuel contamination	14-Mar-01	
ATSB survey of licensed aircraft maintenance engineers in Australia	26-Feb-01	
Human factors in airline maintenance: a study of incident reports	14-Jun-97	
Aircraft maintenance safety survey: Results	14-Jun-97	
Human factors in aircraft maintenance: a preliminary information paper	Sep-94	SAB/IP/94/02

## Human Factors

Title	Date of Publication	Report Number
Take-off performance calculation and entry errors: A global perspective	24-Jan-11	AR2009052
Evaluation of the Human Factors Analysis and Classification System as a predictive model	10-Dec-10	AR2008036
Factors influencing misaligned take-off occurrences at night	30-Jun-10	Ar-2009-033
Improving the odds: Trends in fatal and non-fatal accidents in private flying operations	23-Jun-10	AR-2008-045
Perceived threats, errors and safety in aerial work and low capacity air transport operations	16-Dec-09	AR-2006-156
Threat and error management: Attitudes towards training and applicability of tem to general aviation and low capacity air transport operations	24-Jun-09	AR-2006-156(1)
An overview of human factors in aviation maintenance	23-Dec-08	AR-2008-055
An overview of spatial disorientation as a factor in aviation accidents and incidents	3-Dec-07	B2007/0063
The impacts of Australian transcontinental 'back of clock' operations on sleep and performance in commercial aviation flight crew	27-Mar-07	B2005/0121
Human factors analysis of Australian aviation accidents and comparison with the United States	30-Jan-07	B2004/0321
Design and evaluation of auditory icons as informative warning signals	14-Aug-06	B2005/0120
Communication in context: A conversation analysis tool for examining recorded voice data in investigations of aviation occurrences.	30-Jun-06	B2005/0118
Accidents and incidents involving alcohol and drugs in Australian civil aviation: 1 January 1975 to 31 March 2006	30-Jun-06	B20060169
A layman's introduction to human factors in aircraft accident and incident investigation	30-Jun-06	B2006/0094
Investigation of visual flight cues for timing the initiation of the landing flare	26-Jun-06	B2005/0119
Fatigue management in the New Zealand aviation industry	12-Apr-06	B2004/0048
Dangerous distraction: An examination of accidents and incidents involving pilot distraction in Australia between 1997 and 2004	27-Feb-06	B2004/0324
General aviation pilot behaviours in the face of adverse weather	29-Jun-05	B2005/0127
A context for error: Using conversation analysis to represent and analyse recorded voice data	28-Jun-05	B2005/0108
Night vision goggles in civil helicopter operations	25-Apr-05	B2004/0152
The interpretation and use of weather radar displays in aviation	1-Apr-05	
Error management in aviation training	30-Jun-04	B2004/0050
ATSB aviation safety survey - Common flying errors	18-Jun-04	B2003/0176
ATSB aviation safety survey - Safety climate factors	23-May-04	B2003/0122
ATSB survey of licensed aircraft maintenance engineers in Australia	Feb-01	
Regional airlines safety study project	17-May-99	
Advanced technology aircraft safety survey report	Jun-98	
The clarity and accessibility of NOTAM information for the aviation industry	Oct-97	
Human factors in airline maintenance: A study of incident reports	14-Jun-97	
Aircraft maintenance safety survey: Results	14-Jun-97	
Advanced technology aircraft phase 2: Interim report	Jun-96	
Human factors in fatal aircraft accidents	14-Apr-96	
Dark night take-off accidents in Australia	1995	SAB/RP/95/01
Advanced Technology Aircraft Phase 1 - An Information Paper on the Emerging Safety Issues	Apr-94	SABIP94/01
Human factors in aircraft maintenance: A preliminary information paper	1994	
Limitations of the see-and-avoid principle	1-Apr-91	

## Airspace

Title	Date of Publication	Report Number
Safety in the vicinity of non-towered aerodromes	10-Nov-10	AR-2008-044(2)
A pilot's guide to staying safe in the vicinity of non-towered aerodromes	10-Nov-10	AR-2008-044(1)
Radiotelephony readback compliance and its relationship to surface movement control frequency congestion	28-Jun-07	B2006/0053
MBZ report: An examination of airspace-related occurrences in mandatory broadcast zones between 2001 and 2004	24-Feb-06	B2005/0332
Review of midair collisions involving general aviation aircraft in Australia between 1961 and 2003	22-May-04	B2003/0114
Airspace-related occurrences involving regular public transport and charter aircraft within mandatory broadcast zones	20-Dec-03	
Aviation safety indicators: A report of system safety indicators relating to Australian aviation industry 2002	Nov-03	
Violations of controlled airspace: Special study	Sep-97	B96254
TCAS in Australia	Jan-97	
An analysis of incidents involving aircrew failing to comply with air traffic clearances June to August 1996	Jan-97	
The operation of ground proximity warning systems (GPWS): A review of warnings April - December 1994	15-Apr-95	SAB/IP/95/02
Violations of controlled airspace: A review of occurrences January 1991- June 1994	Feb-95	BS940048
Report into the Frequency of Breakdowns in Co-ordination Between Australian and Indonesian Air Traffic Services	Nov-94	IP9404
A systemic investigation of air miss occurrences 1991-1992	Feb-94	RP9111
The operation of regular public transport (RPT) aircraft in mandatory traffic advisory frequency (MTAF) airspace	Dec-93	RP9301
A review of air safety occurrences during the introduction of AMATS December 1991- April 1992	Nov-93	RP9112
Violations of controlled airspace	Jun-93	RP9201
A systemic investigation of air miss occurrences 1991-1992	1994	

## Medical

Title	Date of Publication	Report Number
Passenger health - the risk posed by infectious disease in the aircraft cabin	10-Jun-08	AR-2007-050
Pilot incapacitation: Analysis of medical conditions affecting pilots involved in accidents and incidents	24-Jan-07	B2006/0170
An analysis of in-flight passenger injuries and medical conditions: 1 January 1975 to 31 March 2006	25-Oct-06	B2006/0171
Depressurisation, accidents and incidents involving Australian civil aircraft; 1 January 1975 to 31 march 2006	30-Jun-06	B2006/0142
Accidents and incidents involving alcohol and drugs in Australian civil aviation: 1 January 1975 to 31 march 2006	30-Jun-06	B2006/0169
Interpretation of measured alcohol levels	12-Oct-05	
Diabetes mellitus and its effects on pilot performance and flight safety: A review	30-Jun-05	B2005/0027
Alcohol and human performance from an aviation perspective: A review	17-Mar-04	
Cannabis and its effects on pilot performance and flight safety: A review	17-Mar-04	
Testing of drugs and alcohol	Oct-93	SABIP931
The possibility of G-induced loss of consciousness (G-loc) during aerobatics in a light aircraft	Feb-88	8721017

## Operational

Title	Date of Publication	Report Number
Avoidable Accidents No. 4 - Visual Flight Rules into Instrument Meteorological Conditions (VFR into IMC)	Jul-11	AR-2011-050
Avoidable Accidents No. 3 - Managing partial power loss after takeoff in single-engine aircraft	27-Jun-2011	AR-2010-055
Avoidable Accidents No. 2 - Wirestrikes involving known wires: A manageable aerial agriculture hazard	8-Jun-2011	AR-2011-028
Take-off performance calculation and entry errors: A global perspective	24-Jan-11	AR2009052
Aircraft loading occurrences July 2003 to June 2010	22-Dec-10	AR-2010-044
Pilot fatigue a major risk in combating plague locusts	29-Nov-10	Educational Fact Sheet
Safety in the vicinity of non-towered aerodromes	10-Nov-10	AR-2008-044(2)
A pilot's guide to staying safe in the vicinity of non-towered aerodromes	10-Nov-10	AR-2008-044(1)
Factors influencing misaligned take-off occurrences at night	30-Jun-10	Ar-2009-033
Improving the odds: Trends in fatal and non-fatal accidents in private flying operations	23-Jun-10	AR-2008-045
Ground operations occurrences at Australian airports 1998 to 2008	16-Jun-10	AR-2009-042
Avoidable Accidents No. 1 - Low-level flying	1-Mar-10	AR-2009-041
Amateur-built and experimental aircraft - Part 1: A survey of owners and builders of VH-registered non-factory aircraft	26-Jun-09	AR-2007-043(1)
Runway excursions: Part 2- Minimising the likelihood and consequences of runway excursions - An Australian perspective	26-Jun-09	AR-2008-018(2)
Runway excursions: Part 1 - A worldwide review of commercial jet aircraft runway excursions	2-Apr-09	AR-2008-018(1)
CFT: Australia in context 1996 to 2005	19-Dec-07	B2006/0352
How old is too old? The impact of ageing aircraft on aviation safety	6-Feb-07	B2005/0205
Regional airline line operations safety audit.	11-Jan-07	B2004/0237
Perceived pilot workload and perceived safety of RNAV (GNSS) approaches	15-Dec-06	B2005/0342
Destination weather assurance risks associated with the Australian operational rules for weather alternate minima	30-Jun-06	B2004/0246
Wire-strike accidents in general aviation: Data analysis 1994 to 2004	29-Jun-06	B2005/0055
Investigation of visual flight cues for timing the initiation of the landing flare	26-Jun-06	B2005/0119
An assessment of general aviation pilot performance during simulated flight	23-May-06	B2004/0242
MBZ report: An examination of airspace-related occurrences in mandatory broadcast zones between 2001 and 2004	24-Feb-06	B2005/0332
Power loss related accidents involving twin-engine aircraft	27-Jun-05	B2005/0085
Aviation safety survey - Pilots' flying experiences	25-Jun-05	B2003/0176
Night vision goggles in civil helicopter operations	25-Apr-05	B2004/0152
The interpretation and use of weather radar displays in aviation	1-Apr-05	
National airspace system stage 2b: Analysis of available data	24-Jul-04	
Runway incursions: 1997 to 2003	21-Jun-04	
Light utility helicopter safety in Australia	19-Jun-04	BE04/73
Review of midair collisions involving general aviation aircraft in Australia between 1961 and 2003	22-May-04	B2003/0114
Airspace-related occurrences involving regular public transport and charter aircraft within mandatory broadcast zones	20-Dec-03	
Australian aviation accidents involving fuel exhaustion and starvation	19-Jan-03	
Helicopter operations safety bulletin	2000	
Advanced technology aircraft safety survey report	Jun-98	
The clarity and accessibility of NOTAM information for the aviation industry	Oct-97	

Survey of Australian agricultural aviation accidents & incidents 1986-1995	Feb-97	SAB/IP/97/01
TCAS in Australia	Jan-97	
An analysis of incidents involving aircrew failing to comply with air traffic clearances June to August 1996	Jan-97	
Regional airlines safety study preliminary information paper	Nov-96	
Advanced technology aircraft phase 2: Interim report	Jun-96	
Survey of Australian agricultural aviation accidents & incidents 1985-1992	Jul-95	SAB/IP/95/03
The operation of Ground Proximity Warning Systems (GPWS): A review of warnings April - December 1994	15-Apr-95	SAB/IP/95/02
Dark night take-off accidents in Australia	Apr-95	SAB/RP/95/01
Advanced technology aircraft phase 1 - An Information paper on the emerging safety issues	Apr-94	SABIP94/01
The status of commercial passenger operations in turbine powered single engine aeroplanes	Dec-93	SABIP93/4
The operation of regular public transport (RPT) aircraft in mandatory traffic advisory frequency (MTAF) airspace	Dec-93	RP9301
Violations of controlled airspace: Special study	Jun-93	RP/92/10
Wire strikes a technical analysis	Jun-91	
Australian helicopter accidents 1969-1988	Sep-89	

## Investigation Methods

Title	Date of Publication	Report Number
Analysis, causality and proof in safety investigations	26-Jun-08	AR-2007-053

## Organisational

Title	Date of Publication	Report Number
Safety issues and safety actions identified through ATSB transport safety investigations: 2009-2010 financial year	21-Apr-11	XR-2010-001
Assessing institutional resilience: A useful guide for airline safety managers?	3-Jul-06	B2004/0240
Organising for flight safety	28-Mar-06	B2004/0240/1
Risks associated with aerial campaign management: Lesson from a case study of aerial locust control	24-Jun-05	B2004/0337
Investigation into Ansett Australia maintenance safety deficiencies and the control of continuing airworthiness of Class A aircraft	17-Nov-02	BS2001/0005
Proactively monitoring airline safety performance: Indicate (identifying needed defences in the civil aviation transport environment)	1-Jun-99	
Flying training in Australia	Jan-96	SABRP9109
The Costs of Aircraft Accidents in Australia with Preliminary Cost Estimates for 1980	Feb-84	8385

**Aviation, Marine and Rail Accident Notification**

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*The Australian Transport Safety Bureau is Australia's national transport safety investigator.*