



ICAO

International Civil Aviation Organization

ICAO Asia/Pacific Wildlife Hazard Management Workshop
and Seventh Meeting of the Asia/Pacific Wildlife Hazard
Management Working Group (AP-WHM/WG/7)

Pokhara, Nepal, 5 to 9 May 2025

**Agenda Item 5: State's Action Plan for Establishment and Implementation of
Wildlife Hazard Management Programme – State's Update**

STATE ACTION PLAN AND WILDLIFE MANAGEMENT PROGRAM - FIJI AVIATION

(Presented by Fiji)

SUMMARY

This paper presents the State Action Plan for Fiji's aviation sector includes a dedicated Wildlife Hazard Management Program aimed at enhancing aviation safety by reducing the risks posed by wildlife, particularly bird strikes, at and around airports. This plan aligns with ICAO guidelines and promotes a systematic approach to hazard identification, risk assessment and mitigation.

Key components of the program include regular wildlife hazard assessments, habitat management strategies, staff training, and the development of wildlife hazard management plan (WHMPs) for each airports. The program also encourages inter-agency collaboration and community awareness to support long-term risk reduction. Through these efforts, Fiji aims to maintain safe airspace while balancing environment conservation and aviation needs.

1. INTRODUCTION

1.1 The aviation industry in Fiji plays a critical role in connecting the nation to global markets, supporting tourism, and promoting economic development. As air traffic increases, so does the potential risk posed by wildlife, particularly bird strikes, at and around the airports. Recognising the importance of maintaining safe and efficient air operations, the Civil Aviation Authority of Fiji has developed a comprehensive State Action Plan and Wildlife Hazard Management Program.

1.2 This initiative is designed to align with the International Civil Aviation Organization (ICAO) standards and recommended practices, aiming to systematically identify, assess, and mitigate wildlife-related hazards within the vicinity of airports. It also emphasises the need to balance aviation safety with the protection of Fiji's rich biodiversity. The plan incorporates risk-based strategies, habitat management, stakeholders' collaboration, and capacity-building efforts to ensure a proactive and sustainable approach to wildlife management across all aerodromes in Fiji.

2. DISCUSSION

Fiji's Action Plan for the Establishment and Implementation of the Wildlife Hazard Management Programme (Attachment A)

2.1 WHMP1 – Designate a WHM National Coordinator to coordinate activities for the development and implementation of WHMP at the National level.

- 2.1.1 DC is designated the WHM National Coordinator at the National level.
- 2.1.2 National Wildlife Hazard Committee meeting was held on 7th February 2025.
- 2.1.3 The Ministry of Civil Aviation put together a cabinet paper for the Ministry's involvement in the National WHM
- 2.1.4 The aim is to have a bi-annual National WHM meeting. A WHM working group is to be organised for Nadi and Nausori.
- 2.1.5 Nadi WHM working group meeting was held on the 28th March 2025.

2.2 WHMP2 - Identify/designate WHM Focal Points in all Stakeholders, e.g. Aerodrome Operators, ANSPs, Aircraft Operators, and Pilots.

- 2.2.1 Bi-Annual meeting set by the Ministry and Airport wildlife meeting for Nadi & Nausori International, conducted on a monthly basis, which involves outside stakeholders

FA - Manager Airside Ops
FA - Manager Safety Risk Management
FA - Environment Officer
FJA - Manager Safety
ATS - MS
CAAF – AI-RAWW
Agriculture Department.
Environment, Town and Country Planning

2.3 WHMP3 - Review ICAO provisions and guidance issued by other relevant aviation organisations.

- 2.3.1 Guidance Material - Wildlife Hazard Management
 - Edition 1 20 August 2019
 - Edition 2 April 2023
 - Published online (CAAF Website)

2.4 WHMP4 - Establish National WHM Committee (NWHMC) with defined terms of reference.

- 2.4.1 The first National Wildlife meeting was conducted on 18th November 2011, and the second on the 1st May 2012, both were chaired by CAAF (Controller of Ground Safety, role now is Executive Manager Ground Safety)
- 2.4.2 The latest National Wildlife Hazard Committee meeting was held on 7th February 2025.
- 2.4.3 The TOR and the composition were discussed in this meeting.

2.5 WHMP5 - Facilitate WHM initial training in basic WHM concepts for NWHMC members.

2.5.1 The team had gone through initial wildlife training conducted by Avisure on 18-19 August 2015 (Phil Shaw).

2.5.2 The latest WHM Training was conducted by Birdgard Australia on the 23-24 January and 25-26 January 2025 for CAAF, Airlines Stakeholders and Fiji Airports, our Airport Operator.

2.6 WHMP6 - Organize initial and recurrent technical WHM training and seminars for Focal Points and relevant staff members of all stakeholders.

Note.– Regular seminars, e.g. annual, are important for maintaining recency and promoting sharing of knowledge and best practices in WHM.

2.6.1 Refresher training is planned to be conducted on an annual basis.

2.6.2 Representatives from Fiji Airports (Operator) and CAAF to the working group started in 2024 and planned for 2025.

2.7 WHMP7 - Identify, if non-existent, develop, and if need be, amend regulations, standards and guidance materials, e.g. SSP, reference to WHMP in aerodrome manual and SMS manual.

2.7.1 Review of the GM and CAAF Standard Document Aerodromes (transpose Annex 14)

2.7.2 NASP- (High risk concern - Bird Strike - National)

2.7.3 SSP - SPI on Wildlife Strikes

2.8 WHMP8 - Establish regulations and/or guidelines that consider WHM aviation safety impacts related to land and infrastructural developments outside the aerodrome boundary.

Note.– Examples of land and infrastructural developments that may have safety impacts are theme parks, restaurants, and solar panel installations

2.8.1 CAAF reviewing the CAA Act and Regulation to include WHM

2.8.2 CAAF approves off-airport development in coordination with Town and Country Planning. (WHM has been included as part of the approval letter by the CAAF)

2.8.3 The environmental impact assessment is conducted by TCP with developments around the airport.

2.9 WHMP9 - Establish airport WHM committees with defined terms of reference and representation from all relevant stakeholders.

Examples of relevant stakeholders to be represented on the WHM committees are the airport runway safety team, urban planning and land administration authorities.

2.9.1 There is an existing committee, Airport WHM Committee, in place that meets every month for Nadi and Nausori

2.10 WHMP10 - Develop airport WHM Plan covering on and off-airport activities, facilities and infrastructure and any changes thereof, contingencies and crises so that any impact of such elements shall be included in the WHM plan. Consistency with other plans shall also be duly considered.

- 2.10.1 CAAF monitors the effectiveness of the WHMP
- Audit
 - Surveillance

2.10.2 Assist the Aerodrome Operator to inspect within 5km

2.10.3 Collection of data on the migration pattern of birds

2.11 WHMP11 - Include the review of the effectiveness of airport-level WHM Plan(s) in the State Safety oversight program.

Note. – The review of the effectiveness of the airport WHM Plan could be included in the aerodrome SMS.

- 2.11.1 Through Audits and Surveillance, which is documented in the CAAF Surveillance work plan

2.12 WHMP12 - Establish methodology and procedures to review regularly, e.g., annually, the effectiveness of the national WHM program.

- 2.12.1 Published in the SSP – convening of the National Wildlife Committee meeting biannually (review the effectiveness of the WHM program – collection of data)

2.13 WHMP13 - Coordinate airport WHM Plan with air operators and other airport users in the identification of wildlife hazards, e.g. locations and probabilities of wildlife presence, to improve effectiveness of mitigation measures, e.g. by providing a mechanism to share on time wildlife hazard intelligence with other stakeholders, in particular, pilots, such as alert bulletins, NOTAMs and wildlife detection technologies.

- 2.13.1 Aerodrome Operator – shares their action plan and the monthly data during the Airport WHM Committee meeting.

2.13.2 Collection of data is conducted through the use of the Tracker App, which could identify the location and the number of bird strikes, etc. Can be used for Ramp Inspections

- 2.13.3 Online reporting of bird strikes is done through the submission of the forms:
- OR – 001 MOR
 - OR002A Bird Strike Form
 - OR002B Supplementary Information

2.13.4 Identified bird activities within the airport boundary are reported by ATC to pilots through the ATIS

2.13.5 Airline Operator shares data on the damage caused by wildlife strikes

2.13.6 NOTAMs are issued with regards to bird movement, bird presence within the airport, which pose a significant threat to flight operations

2.14 WHMP14 - Identify the necessary means and resources for the implementation of national WHMP (human, financial and material resources)

2.14.1 Manpower, finance, training and material resources is provided by the Aerodrome Operator

2.14.2 CAAF assists by putting up advertisements and printing wildlife posters for public awareness

2.15 WHMP15 - Promote safety and reporting culture as per safety management principles

2.15.1 Published in the Aviation Safety Bulletin

2.15.2 Public safety awareness is conducted in schools and villages within the vicinity of the airport

2.16 WHMP16 - Establish wildlife hazard database as part of SMS and SSP and report electronically wildlife strikes in the standard ICAO format.

2.16.1 Wildlife Hazard database is maintained by CAAF.

2.16.2 The IBIS report is sent to ICAO annually

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

— END —



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+679 222 4222 / +679 892 3155



www.caaf.org.fj



Private Mail Bag, NAP 0354, Nadi Airport, Fiji

WILDLIFE HAZARD WILDLIFE HAZARD MANAGEMENT PROGRAMME (WHMP)

STATE ACTION PLAN FOR DEVELOPMENT AND IMPLEMENTATION OF WHMP

GENERIC TEMPLATE

FIJI

This generic template provides a recommended action plan for Fiji to implement WHMP. Certain action(s) and/or orders of action recommended here may be not applicable in all States. Fiji may adapt this action plan to suit our national and local conditions as appropriate.

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 1	Designate a WHM National Coordinator to coordinate activities for the development and implementation of WHMP at the national level	Director Civil Aviation Fiji	Oct 2024	7 th Feb 2025	DC is designated WHM National Coordinator at the National level. - National Wildlife Hazard Committee meeting was held on 7th Feb 2025. - The Ministry of Civil Aviation put together a cabinet paper for the Ministry's involvement in the National WHM - The aim is to have a bi-annual National WHM meeting. A WHM working group is to be organised for Nadi and Nausori. - Nadi WHM working group meeting was held on the 28th Mar 2025.

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 2	Identify/designate WHM Focal Points in all stakeholders, e.g. aerodrome operators, ANSPs, aircraft operators, and pilots. <i>Note.– Stakeholders may be represented by their national, regional or international associations, e.g. ACI, CANSO and IFALPA.</i>	Ministry of Civil Aviation, CAAF, Aerodrome Operators, ANSPs, Aircraft Operators, TCP, Agriculture, Environ.....	Oct 2024	7 Feb 2025	Bi-Annual meeting set by the Ministry and Airport wildlife meeting for Nadi & Nausori International airport conducted on a monthly basis which involves outside stakeholders FA - Manager Airside Ops FA - Manager Safety Risk Management FA - Environment Officer FJA - Manager Safety ATS - MS CAAF – AI-RAWW Ministry of Agriculture Environment, Town and Country Planning
WHMP 3	Review ICAO provisions and guidance issued by other relevant aviation organisations.	CAAF	20/09/2019	20/09/2019 April 2023.	GM WHM Edition 1 20 August 2019 Edition 2 April 2023 Published online (CAAF Website)
WHMP 4	Establish National WHM Committee (NWHMC) with defined terms of reference. <i>Note.– See list of publications in suggested references below.</i>	CAAF	Nov 2024	18 th Nov 2011 1 st May 2012 7 th Feb 2025.	The first National Wildlife meeting was conducted on 18th Nov 2011 and the second on the 1st May 2012, both were chaired by CAAF (Controller of Ground Safety) the role now is Executive Ground Safety.

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
					- The outcome of these meeting was the relocation of rubbish dump from Nadi to Lautoka which is about 28km - The latest National Wildlife Hazard Committee meeting was held on 7th Feb 2025. - The TOR and the Composition were discussed in this meeting.
WHMP 5	Facilitate WHM initial training in basic WHM concepts for NWHMC members.	Fiji Airports – Aerodrome Operator	Nov 2024	18 th – 19 th Aug 2015 3 rd – 26 th Jan 2025.	The team has gone through wildlife training conducted by Avisure on 18-19 Aug 2015. (Phil Shaw). Most who attended the training have left the organization. The latest WHM Training was conducted by Birdgard Australia on the 23-24 Jan and 25-26 Jan 2025. (Raman and Lalita
WHMP 6	Organize initial and recurrent technical WHM training and seminars for Focal Points and relevant staff members of all stakeholders. <i>Note.– Regular seminars, e.g. annual, are important for maintaining recency and promoting sharing of knowledge and best practices in WHM.</i>	Fiji Airports, CAAF	Nov 2024	On going	Refresher training is planned to be conducted on an annual basis. Representatives from Fiji Airports (Operator) to the working group started last year and again this year.

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 7	Identify, if non-existent, develop, and if need be, amend regulations, standards and guidance materials, e.g. SSP, reference to WHMP in aerodrome manual and SMS manual. <i>Note.– States may reverse order of WHMP7 and WHMP9 as they see fit. See Note 2 below the Table.</i>	CAAF	Nov 2024	2025	- Review of the GM and CAAF Standard Document Aerodromes. (Transpose Annex 14 Vol1 plus appendix on WHM) - NASP- (High risk concern - Bird Strike - National) - SSP - SPI on Wildlife strikes
WHMP 8	Establish regulations and/or guidelines that consider WHM aviation safety impacts related to land and infrastructural developments outside the aerodrome boundary. <i>Note.– Examples of land and infrastructural developments that may have safety impacts are theme parks, restaurants, solar panel installations.</i>	CAAF	Nov 2024	IN PROGRESS	(within 5 km off airport) - CAAF reviewing the CAA Act and Regulation that considers WHM - CAAF approves off-airport development in coordination with Town and Country Planning. (WHM has been considered in this checklist) - The environmental impact assessment is conducted by TCP with developments around the airport.
WHMP 9	Establish airport WHM committees with defined terms of reference and representation from all relevant stakeholders. <i>Note.1 – States may reverse order of WHMP7 and WHMP9 as they see fit. See Note 2 below the Table.</i> <i>Note 2.– Examples of relevant</i>	CAAF Aerodrome Operators	2011	Ongoing Monthly meeting	There is an existing committee in place that meets every month for Nadi and Nausori

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
	<i>stakeholders to be represented on the WHM committees are airport runway safety team, urban planning and land administration authorities.</i>				
WHMP 10	Develop airport WHM Plan covering on and off-airport activities, facilities and infrastructure and any changes thereof, contingencies and crises so that any impact of such elements shall be included in the WHM plan. Consistency with other plans shall also be duly considered. <i>Note.1 – Refer to Part 3 of Doc 9137 for guidance on the establishment of airport WHM plan.</i> <i>Note 2.– An example of “other plans” is a waste management plan.</i> <i>Note 3.– WHMP should be drafted with achievable actions, define a clear list of roles & responsibilities.</i>	Aerodrome Operators	2013		CAAF monitors the effectiveness of the WHMP - Audit - Surveillance Assist Aerodrome Operator to conduct inspection within 5km - Collection of data on the migration pattern of birds
WHMP 11	Include the review of effectiveness of airport-level WHM Plan(s) in State safety oversight program. <i>Note. – The review of the effectiveness of airport WHM Plan could be included in the aerodrome SMS.</i>	CAAF	2013	Ongoing	Through Audits and Surveillance which is documented in the work plan
WHMP 12	Establish methodology and	Ministry of Civil Aviation,	2012	February 2025	

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
	procedures to review regularly, e.g., annually, the effectiveness of the national WHM program. <i>Note. – This could be part of SSP.</i>	CAAF			Published in the SSP – convening of the National Wildlife Committee meeting bi-annually (review the effectiveness of the WHM program – collection of data)
WHMP 13	Coordinate airport WHM Plan with air operators and other airport users in the identification of wildlife hazards, e.g. locations and probabilities of wildlife presence, to improve effectiveness of mitigation measures, e.g. by providing a mechanism to share in a timely manner wildlife hazard intelligence with other stakeholders, in particular, pilots, such as alert bulletins, NOTAMs and wildlife detection technologies. <i>Note. – “timely manner” in this context means “as close to real time as possible”.</i>	CAAF and all relevant stakeholders	2011	Ongoing	Aerodrome Operator – shares their action plan and the monthly data during the wildlife committee meeting. Collection of data is conducted through the use of tracker app which could identify the location and the number of bird numbers etc. Online reporting of bird strikes is done through the submission of the following forms: OR – 001 MOR OR - 002A bird strike report form OR002B – Supplementary Information Bird activities within the airport boundary are reported to the Pilots by ATC Airline Operator shares data on the damages that is caused by

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
					the wildlife strike. FJ Airways reported a \$4m worth of damage from Jan to March 2025 caused by bird strikes. NOTAM is issued with regards to bird movement, bird presence within the airport which pose significant threat to flight ops
WHMP 14	Identify the necessary means and resources for the implementation of national WHMP (human, financial and material resources)	Aerodrome Operator	2012	IN PROGRESS	Manpower, finance, training and material resources is provided by the Aerodrome Operator CAAF assists by putting up advertisements and printing wildlife posters for public awareness
WHMP 15	Promote safety and reporting culture as per safety management principles	CAAF and Aerodrome Operators	2012	Ongoing	Published in the Aviation Safety Bulletin Public safety awareness conducted to schools and villagers within the vicinity of the airport

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ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 16	Establish wildlife hazard database as part of SMS and SSP and report electronically wildlife strikes in the standard ICAO format. <i>Note. – Information technologies should be adopted to facilitate the recording, sharing and reporting of wildlife activities and strikes.</i>	CAAF and aerodrome operators	Monthly	Ongoing	Wildlife Hazard data base is maintained by CAAF. IBIS report is sent to ICAO on annual basis.

Notes:

1. Examples of State Aviation Authority are CAAF, DGCA and DCA.
2. State may change order of action items as they see fit.
3. SDCPS stands for Safety Data Collection and Processing Systems

References

Publications / Websites

1. PANS Aerodromes (Doc 9981)
2. Airport Services Manual (Doc 9137), Part 3 - Wildlife Hazard Management
3. ICAO [Asia Pacific Guidance for Evaluation of Aerodrome Wildlife Hazard Management Program](#)
4. ICAO Asia Pacific [Guidance for Establishment of National Procedure for Recording and Reporting Wildlife Strikes to Aircraft](#)
5. ICAO Asia Pacific Guidelines on the drafting of [Terms of References of National Wildlife Hazard Management Committee](#)
6. IBIS Manual (under revision as at 2021). See <https://www.icao.int/safety/Pages/IBIS.aspx>.
7. ACI Wildlife Hazard Management [Handbook](#)

Training

All correspondence must be addressed to the Chief Executive and not to individuals.

1. Birdguard Australia
2. ACI Wildlife Hazard Management Professional Certificate Course ([classroom](#) interactive)
3. ACI Wildlife Hazard Management Training Course ([online](#) self-learning)

Activities

1. ICAO AP-WHM/WG