

Sixth Meeting of the Aerodromes Safety, Planning and Implementation Group ASPIG/6 Meeting








Impacts of wildlife on the
Aerodrome safety



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Introduction.

The environment surrounding the airport and the diversity in it (water, trees, and animal pens) are attractive factors for birds and animals because they constitute an attractive and safe environment and a source of food and protection, as well as nesting places, which is cause their reproduction.





Introduction.

Collisions between aircraft and wild animals represent one of the most significant potential risks at airports, as this can lead to damage to the aircraft or a malfunction (for example, engine failure due to bird suction).



Introduction.

Although collisions with wild animals are largely related to birds, mammals such as foxes or stray cats and dogs that roam the main runways can pose a major threat to the safety of air navigation.



Introduction.



Wildlife – including birds, mammals, and reptiles, can be found on or around aerodromes all over the world.

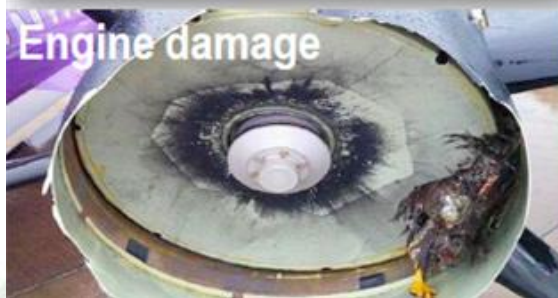
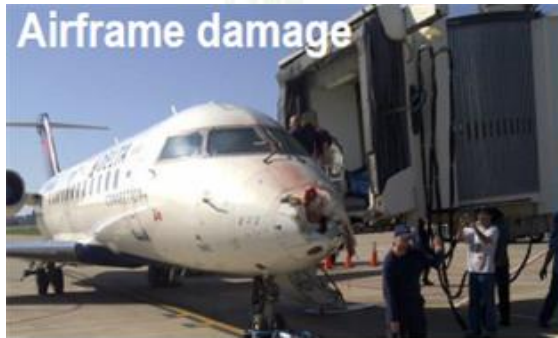




Introduction.



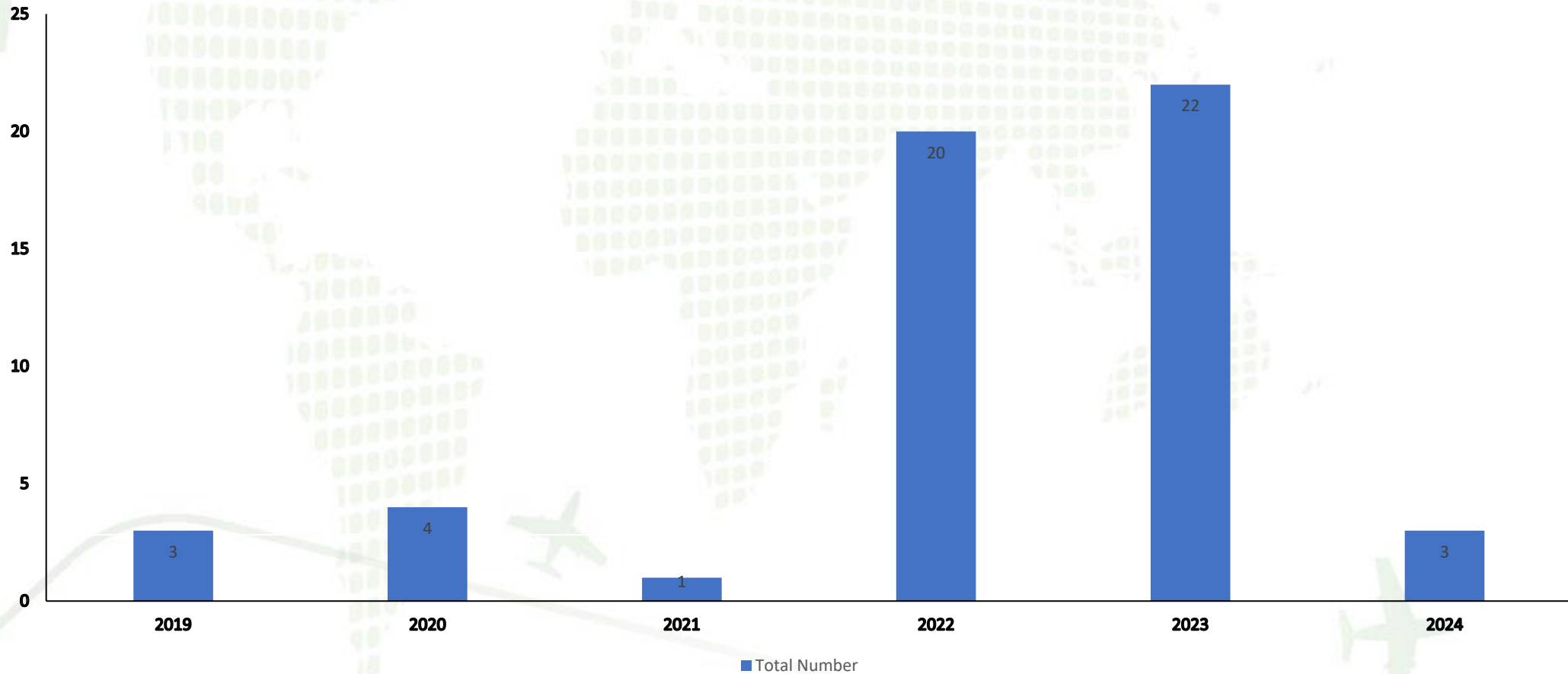
However, birds are the most prominent potential challenges and risks that cause collisions between them and aircraft.





Statics of Confirmed Wildlife Strikes from 2019 to 2024

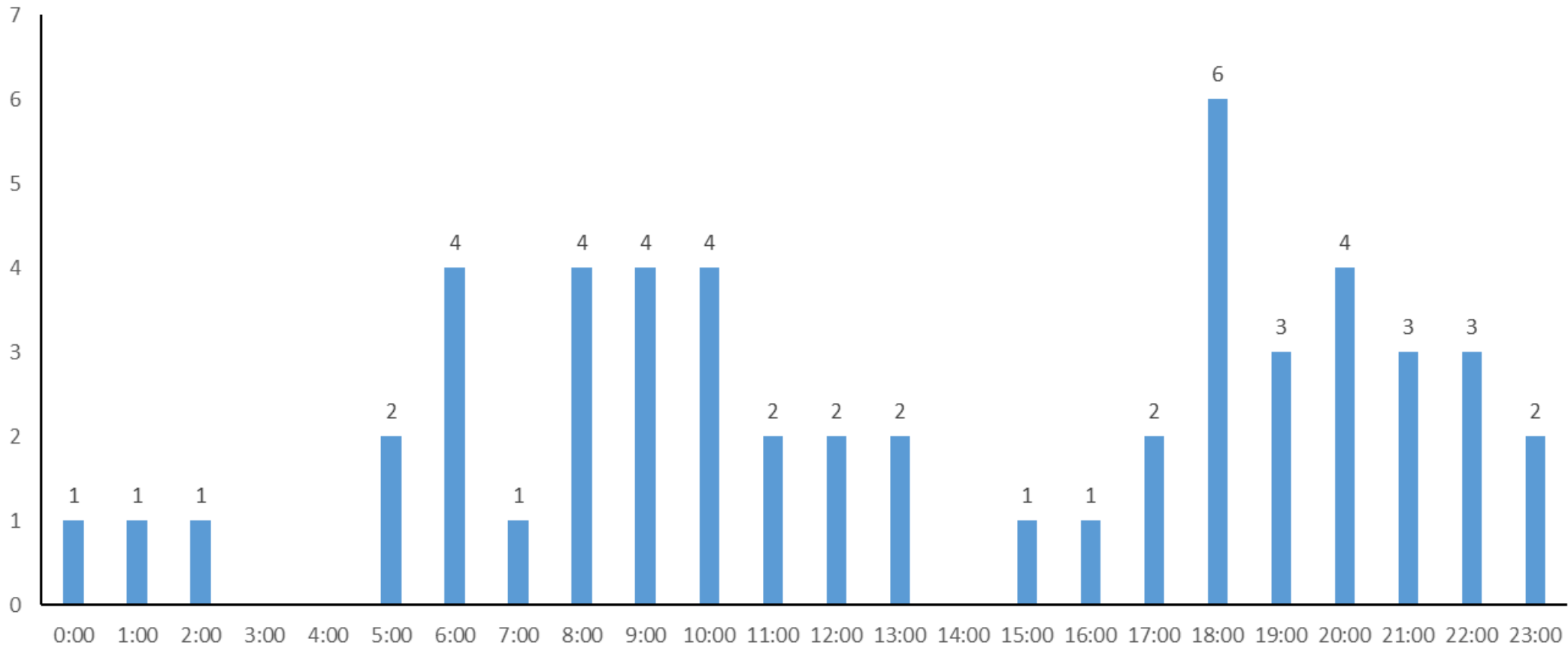
Total Number Number of Wildlife Strikes (2019 to 2024)





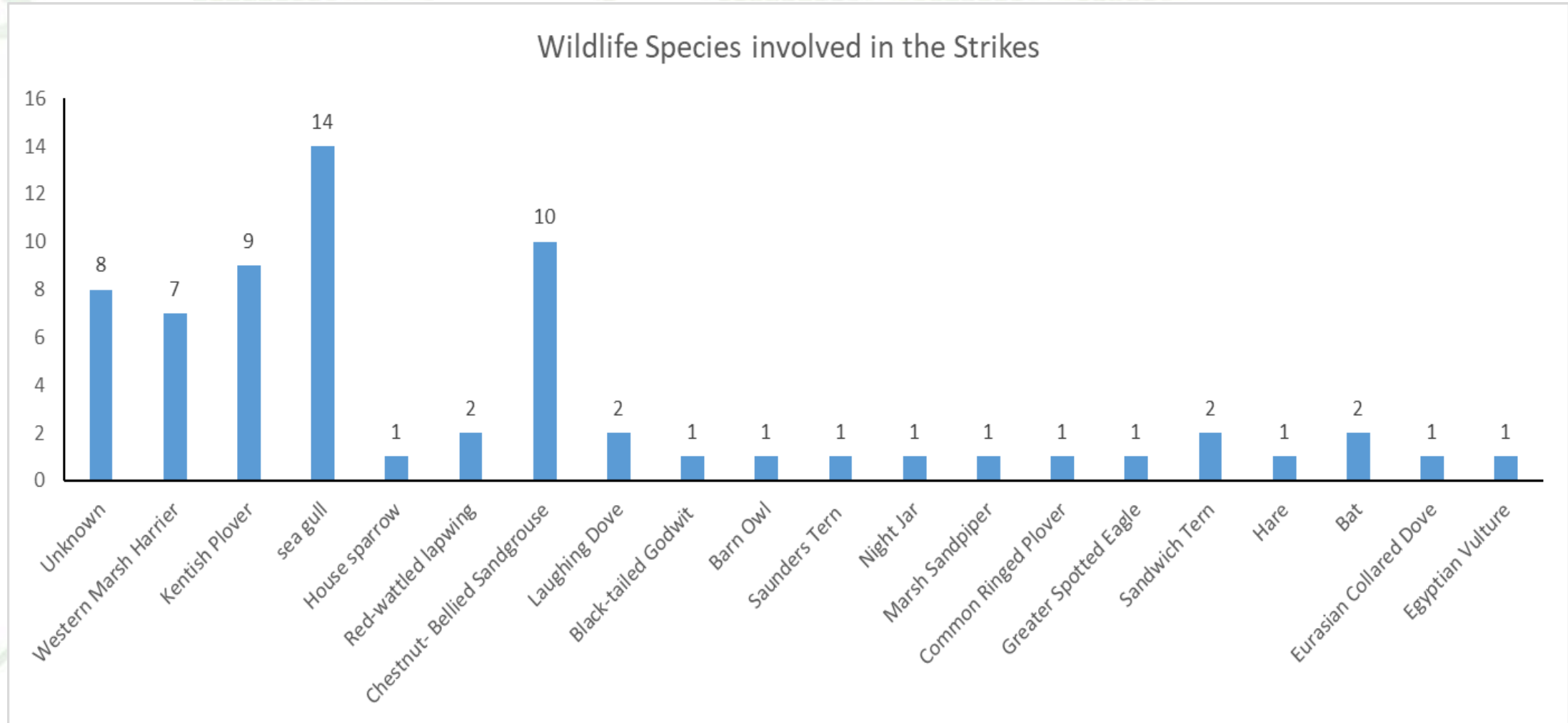
Statics of Confirmed Wildlife Strikes from 2019 to 2024

Time of Wildlife Strikes



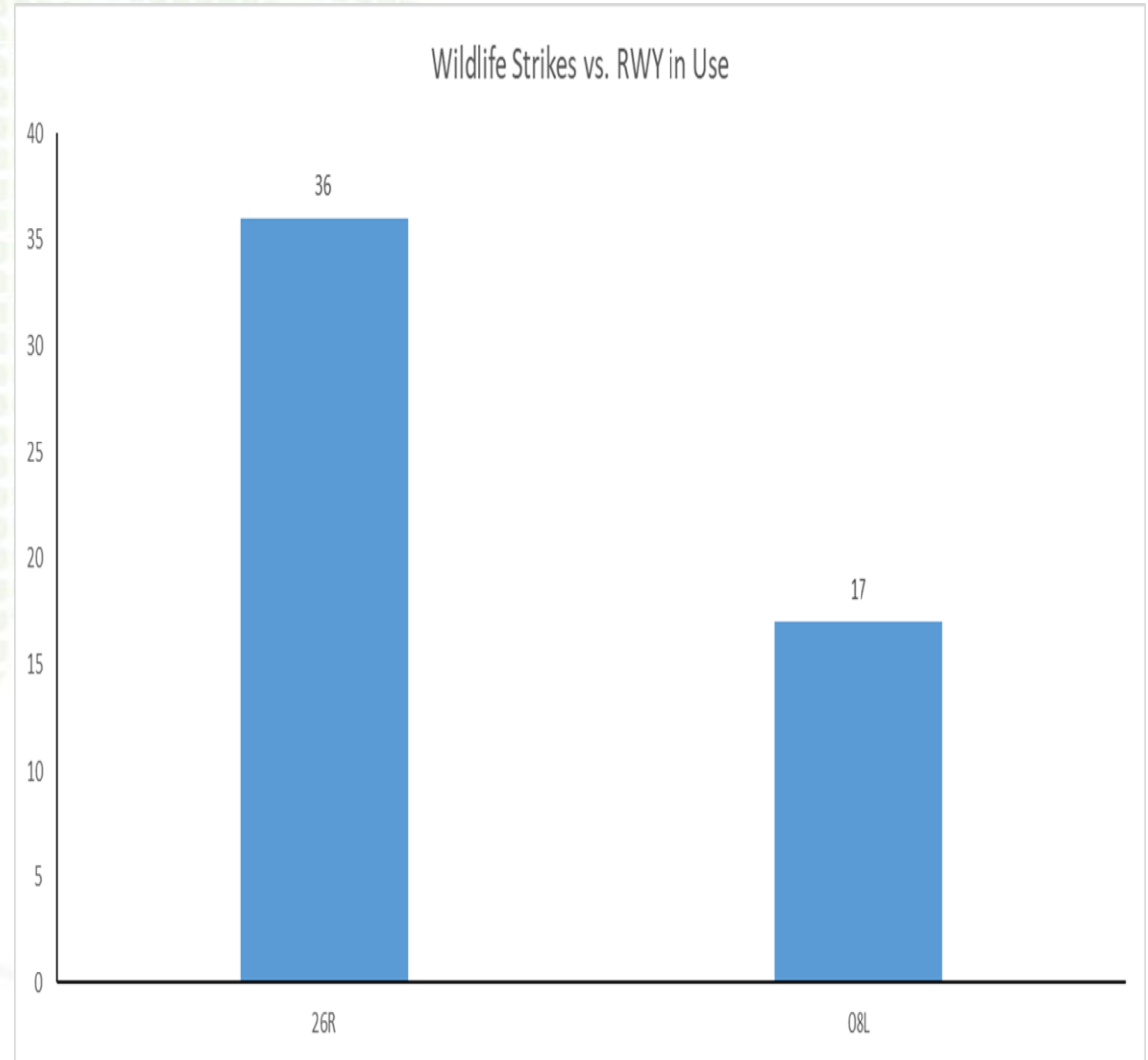
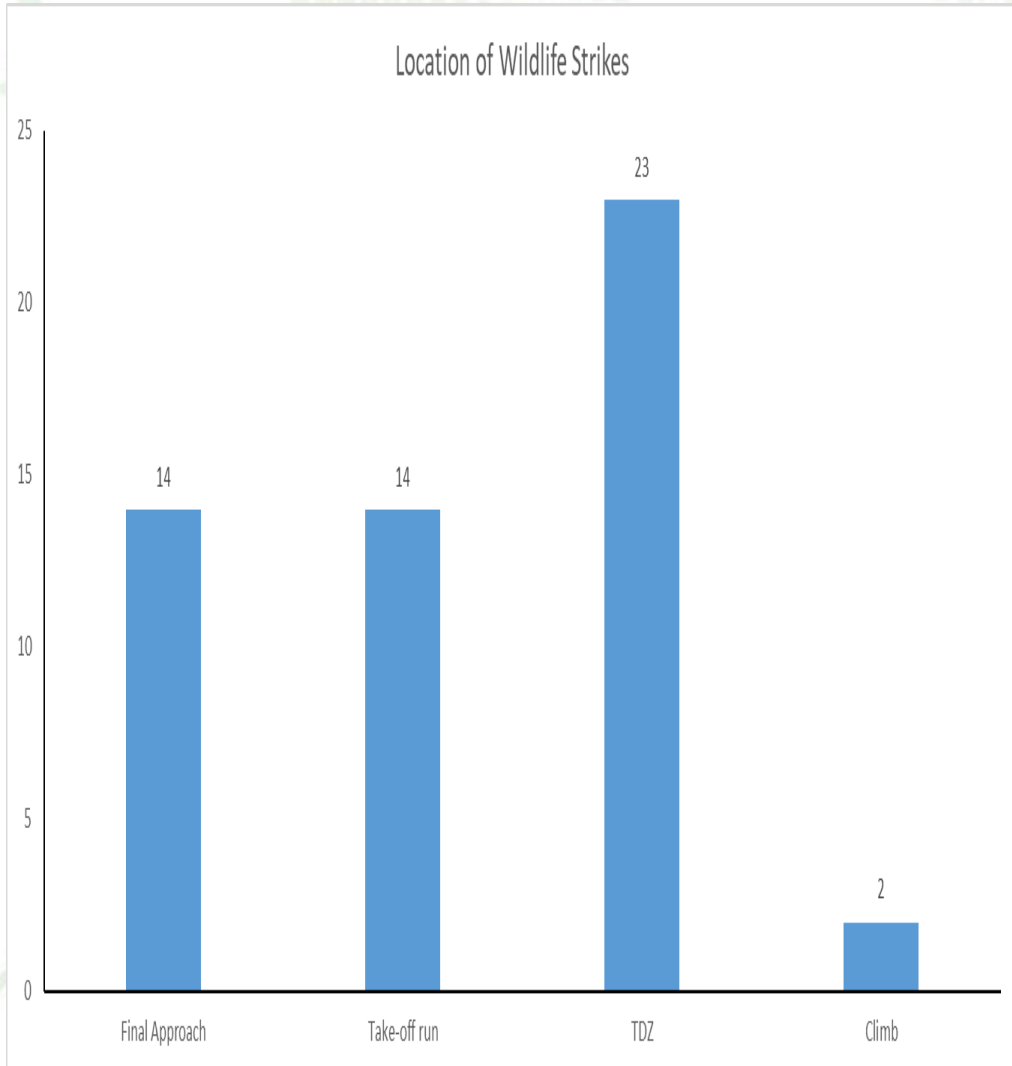


Statics of Confirmed Wildlife Strikes from 2019 to 2024



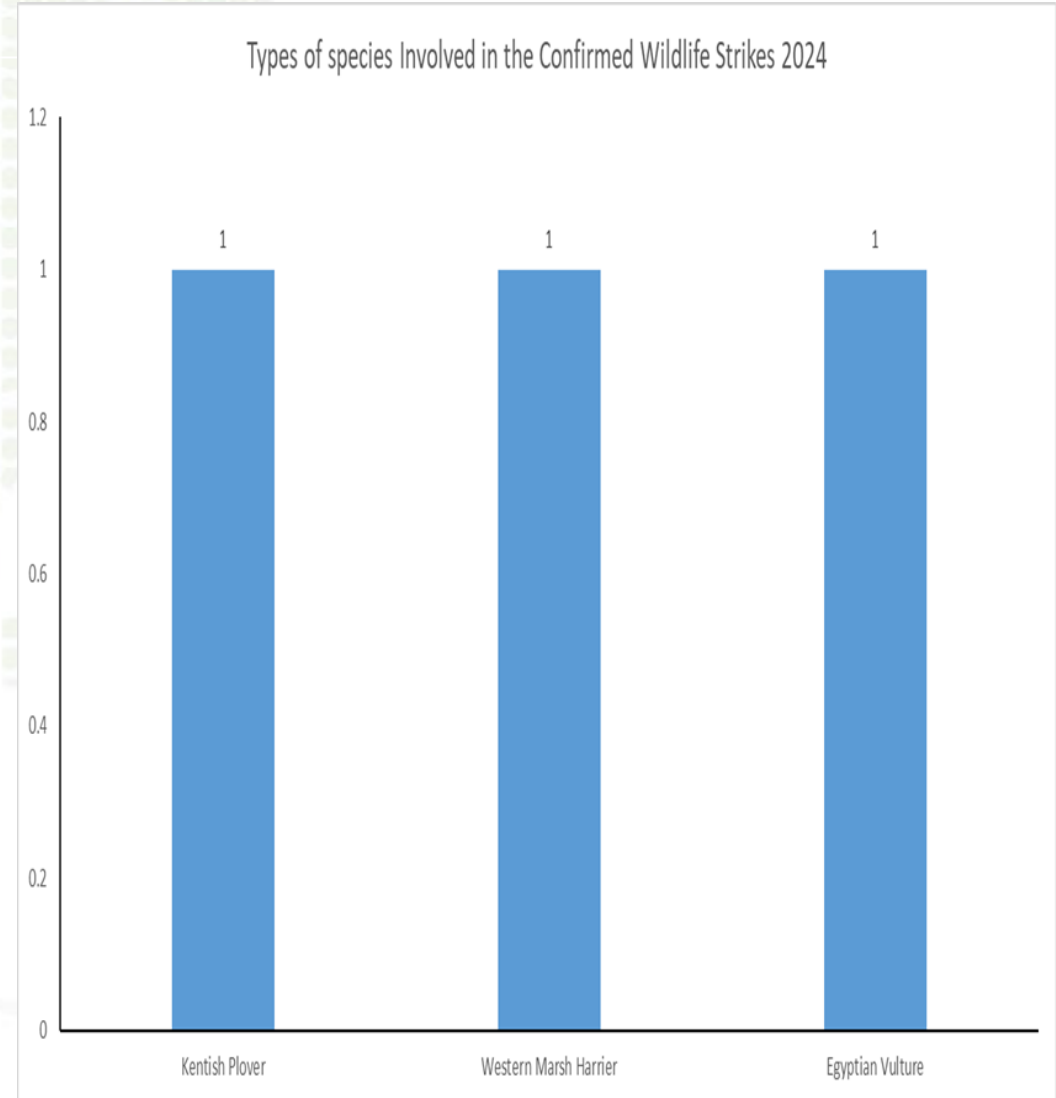
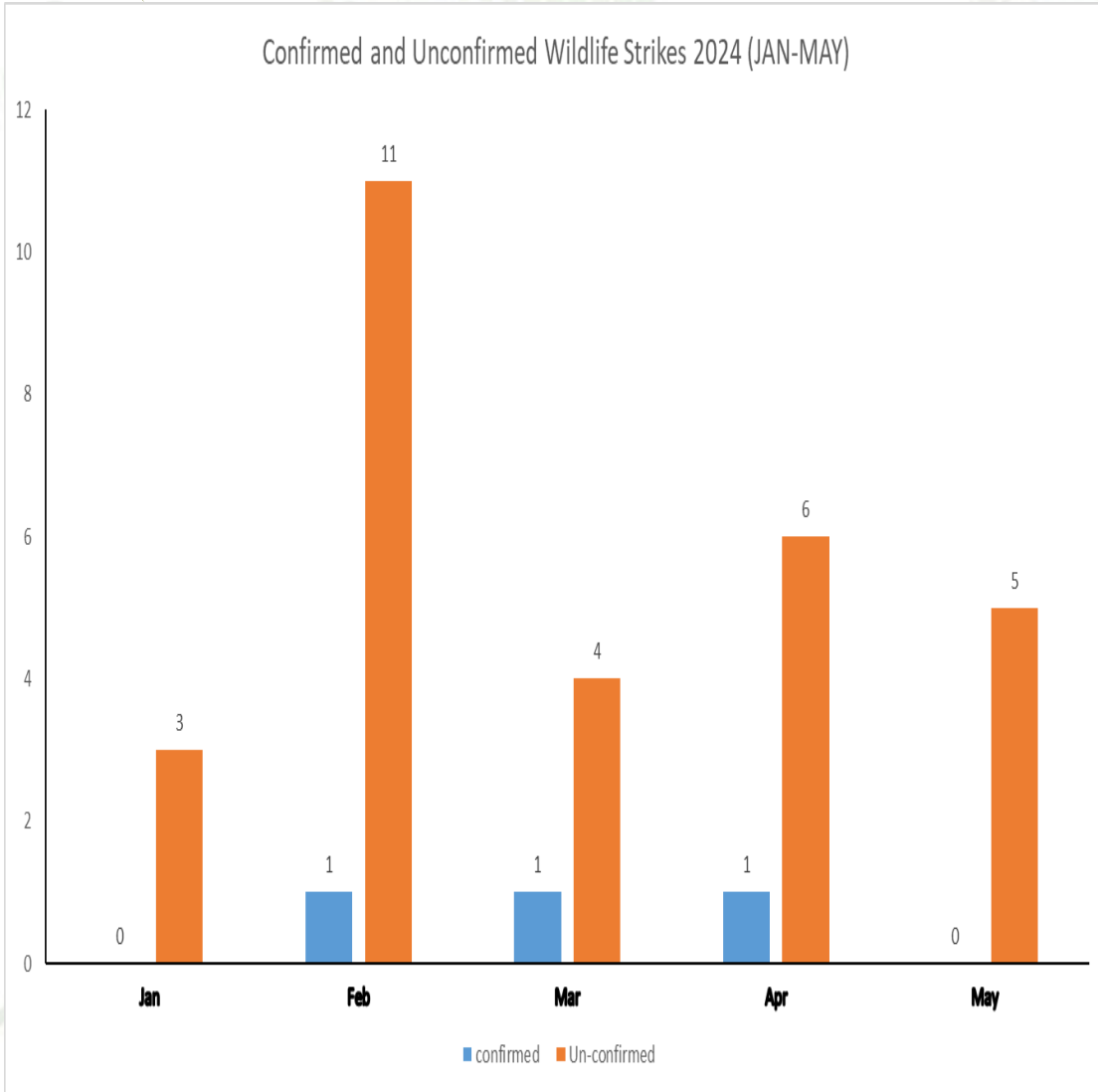


Statics of Confirmed Wildlife Strikes from 2019 to 2024



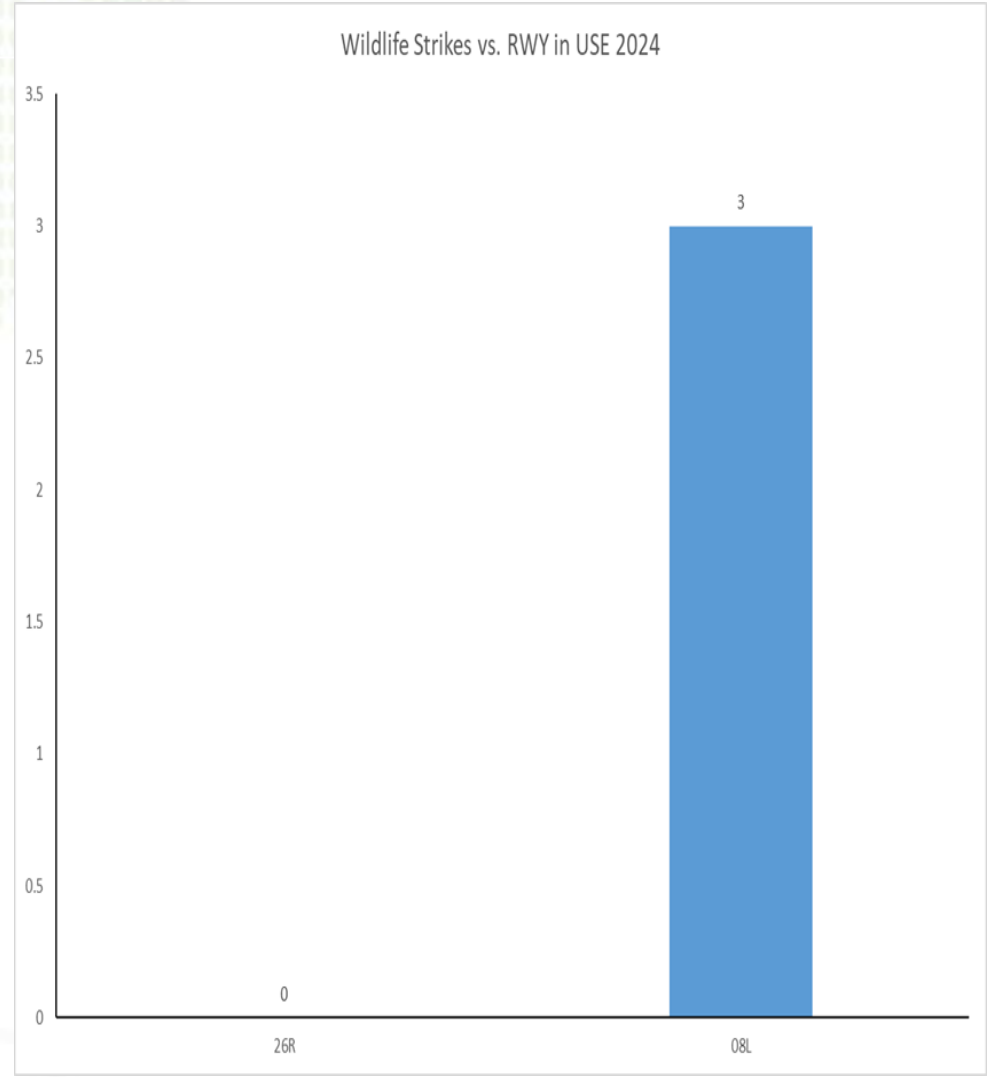
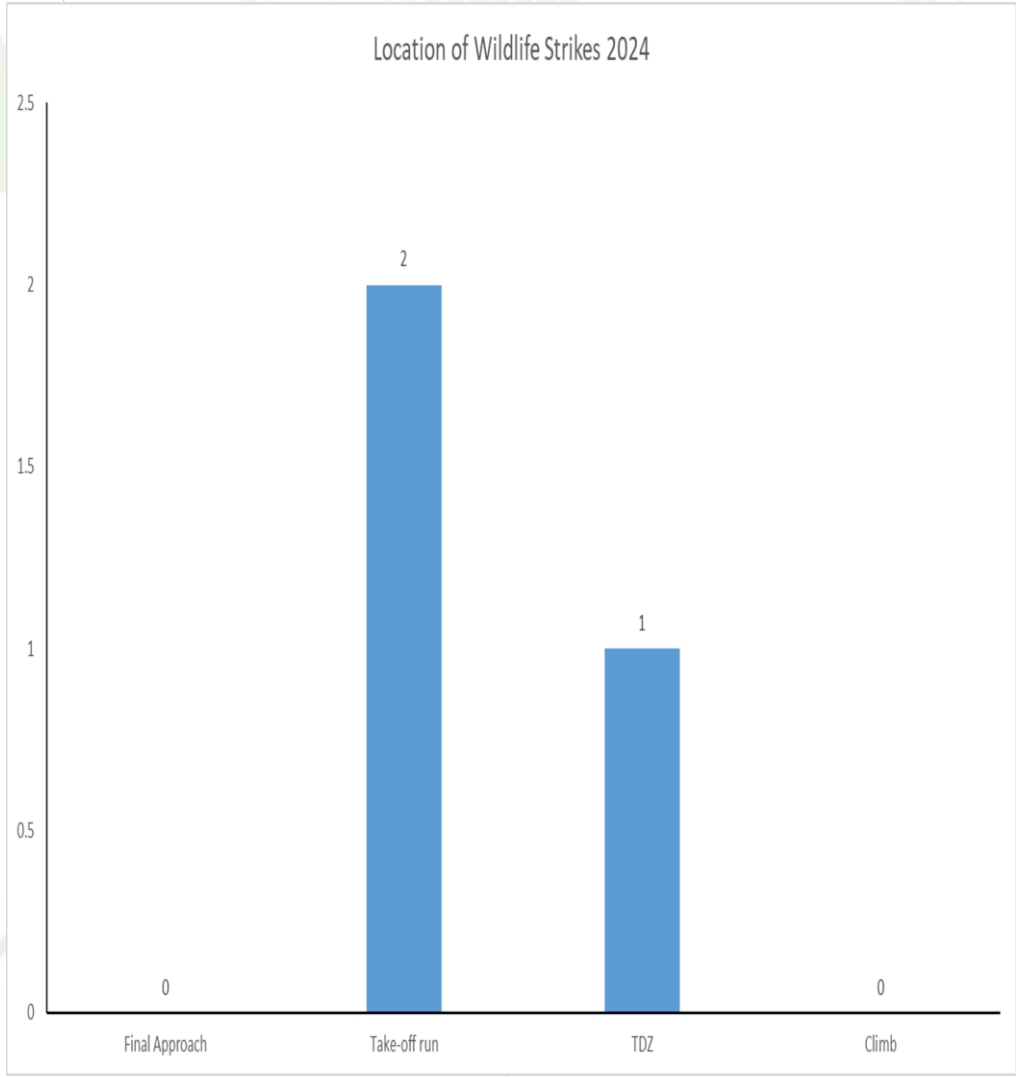


Statics of Confirmed Wildlife Strikes from 2019 to 2024





Statics of Confirmed Wildlife Strikes from 2019 to 2024





Some factors attracting the wildlife.





Some factors attracting the wildlife.





Control measures to prevent wildlife Hazard.



Aviation Law.



Civil Aviation Regulation 139.



Wildlife hazard management Guidance Material.



Aerodrome Manual.



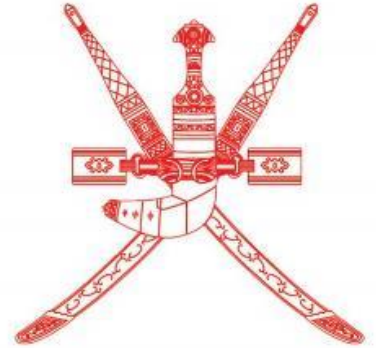
Coordination Committee.





OMAN Royal Decree 62/2023

The airport operator must conduct a risk assessment to assess wildlife hazard in accordance with the regulations. He must also form a committee chaired by operator with representative from the authority, relevant government agencies, and partners working at the airport, to study and follow up hazard of wildlife inside or airport , and the committee should submits its reports to the president of the Authority.





OMAN Royal Decree 62/2023

The airport operator must coordinate with the authority to take the necessary measures to remove or prevent the establishment of waste depots or any other sources that attract wildlife to airports or adjacent areas. If it is not possible to remove the current sites, the airport operator must ensure that any hazard to aircraft posed by these sites, should be evaluated, and reduce it to the lowest practically reasonable level.





Specific Operating Regulation-CAR 139



CAR-139 Aerodrome Certification, Design and Operation.



CAR 139 states that *“The presence of wildlife (birds and other animals) on and in the aerodrome vicinity poses a serious threat to aircraft operational safety.*

The wildlife strike hazard on, or in the vicinity of, an aerodrome shall be assessed through:

- a) The establishment of a national procedure for recording and reporting wildlife strikes to aircraft;

CAR-139 Civil Aviation Regulation AERODROME CERTIFICATION, DESIGN AND OPERATION

Effective 1st of June 2023

Approved by: H.E. Eng. Naif Ali Hamed Al-Abri
President of CAA



Specific Operating Regulation-CAR 139

- b) The collection of information from aircraft operators, aerodrome personnel and other sources on the presence of wildlife on or around the aerodrome constituting a potential hazard to aircraft operations; and
- c) An ongoing evaluation of the wildlife hazard by competent personnel.

CAR-139

Civil Aviation Regulation AERODROME CERTIFICATION, DESIGN AND OPERATION

Effective 1st of June 2023

Approved by: H.E. Eng. Naif Ali Hamed Al-Abri
President of CAA

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Administrative Decision 1249/2022



استشقة بثقة
Moving Forward
With Confidence



The Coordinating Committee for Civil Aviation Regulation will work thoughtfully to raise the level of coordination and cooperation between the Civil Aviation Authority and the Stakeholder of the aviation sector to implement the goals and objectives for which these entities are working in order to achieve the aspirations of Oman Vision 2040, and in accordance with civil aviation legislation and the international obligations of the Sultanate of Oman.





Administrative Decision 1249/2022


Main elements and Objective.

- Safety and Security of Aerodrome and Civil Aviation.
- Protecting the Environment from Civil Aviation Activities.
- Strengthen Oversight and Resolve Safety and Security Concerns in Civil Aviation.
- Dealing with Operational Issues and Emergency Situations in the Civil Aviation Sector.







Control measures to prevent wildlife Hazard.



Oman CAA has established a national committee from different relevant governmental sectors in order to mitigate the wildlife strikes;




Wildlife team are monitoring the RWY continually to make sure no bird activity or crossing nearby and advice the ATC in case of bird activity;



Preparing a full report about the status of construction sites in the airport vicinity with continuous visits on the construction sites to eliminate any source of bird attraction;



Availability of wildlife management tools;




Coordinate with ROP for their approval to use additional tools for wildlife control measures. (approval obtained for usage of laser, gun);






Control measures to prevent wildlife Hazard.




Conducting continuous campaign of removing nests and eggs in the RWY strip and other areas;




Coordinate with Municipality to remove the wastes dumped in the vicinity of the airport.



Conducting continuous campaign of removing nests and eggs in the RWY strip and other areas;



External Wildlife committee has been established with different agencies in order to cooperate with Aerodrome to mitigate any hazards on ACFTs movement;



The external agencies have been instructed by Aerodrome to establish their own Wildlife Hazard Management Plan and share it with Aerodrome;





Control measures to prevent wildlife Hazard.



Remove nests and eggs



Airport fencing



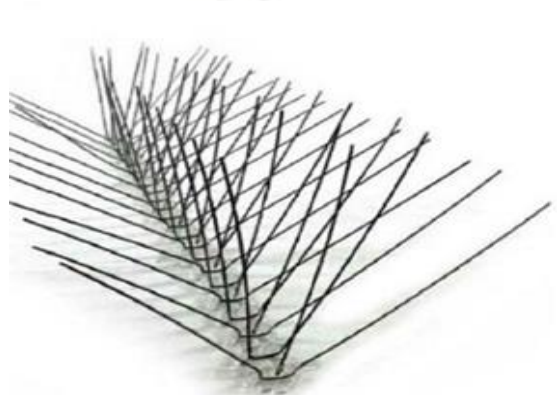
Animal traps



Fixed scare devices



Portable scare devices



Fixed screws

Thank
You

