

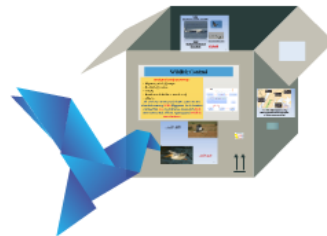
WHMP @ Airports
(HEGN International Airports)
(HESH International Airport)



WHMP @ Airports

(HEGN International Airports)

(HESH International Airport)



**Egyptian civil aviation authority
(ECAA)**

**Regulation ECAR 139-335/345
EAC 20**

Requirement ACM

**WILDLIFE CONTROL
@ AIRPORTS**

CONTENTS:

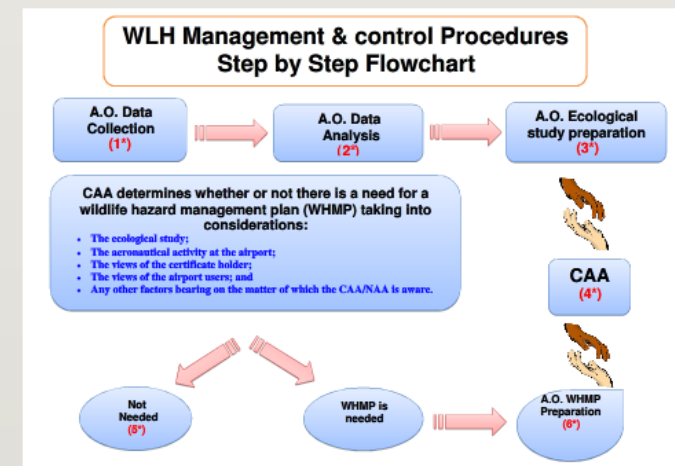
- **Ecological study**
- **Egyptian Location for Bird life**
- **WHMP**
- **communication**
- **implementation**
- **data analysis**

Wildlife Control

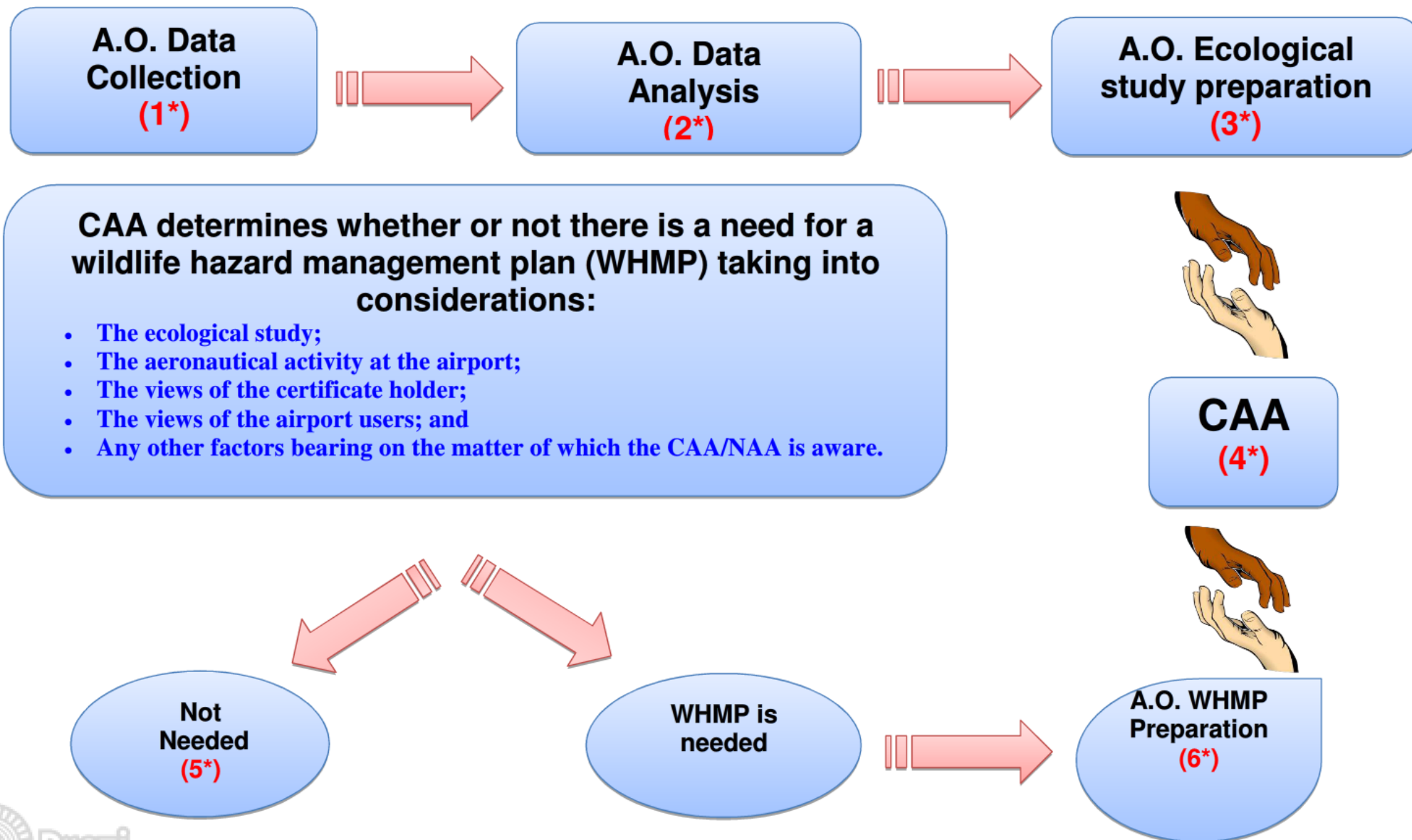
Ecological Study Consist of:-

- *Migratory birds fly-ways;*
- *Biodiversity places;*
- *Survey;*
- *Incident and Accident records and;*
- *Others...*

All of these mentioned above contents are sharable among **ECAA** (Egyptian Civil Aviation Authority), **A.O** (Aerodrome Operator), **EAA** (Environmental Affairs Agency) and **Wildlife coordinators**.



WLH Management & control Procedures Step by Step Flowchart





القلق الأبيض



البجع الأبيض

Boeing 737-700
Séville – july 2004



Collision with a White stork

A 320

New York La guardia – Jan 2009



Flock of Canadian geese

Crash
Multiple ingestions of
heavy birds

CLIMB



***From Take Off to Splash Landing
Multi-engine Bird strikes ingested to
a Turbine powered aircraft***

WHM Plan Milestones Flowchart

(1*) GAP ANALYSIS

The main responsible person Determination
(2*)

Leadership, Team, qualification, training, responsibilities, delegation, etc...

Qualified team

Needed Habitat Modification and land use planning
(3*)

Modification, closing, management, transfer, convert, separation, etc...

Bird Plugged zone

Resources Identification
(4*)

Financial, Human, Monitoring tools, Dispersing tools, etc...

More accurate, smarter work

WHMP Procedures
(5*)

Assignment, Inspections, Control Measures, Communication, etc...

Safe Operating Env.

WHMP periodic evaluation
(6*)

Validity, Effectiveness, Etc...

Continual Improvement



WHMP

wild life hazard management plan

Requirement of ECAA

Egyptian Requirements

to following challenges:

- Biological hazard
- migratory bird density
- bird attractants points and hotspots
- documentation system
- internal and external communication
- well trained and qualified staff
- monitoring and dispersing tools
- incident and accident recording system
- reporting system
- evaluation and risk assessment

جمهورية مصر العربية
وزارة الطيران المدني
الشركة المصرية للمطارات

خطة مواجهة
حوادث ارتطام الطيور و الحياة البرية بالطائرات
مطار شرم الشيخ الدولي

- Habitat modification
- remove attractants
- active management
- committees
- training
- Qualified staff
- responsibilities and others



document control

- standardization of forms

Daily report

evaluation daily report

monthly report

record incident and accident

IBIS and data analysis

yearly report And data base



Boeing 737-700
Séville – july 2004



Collision with a White stork

١٣

wild life hazard management plan



خطوط ومسارات هجرة الطيور القادمة من أوروبا وآسيا متجهة إلى إفريقيا



القلق الأبيض



البجع الأبيض

Egyptian Airports has the following challenges:

- **Ecological Study**
- **migratory bird flyways**
- **bird attractants points and hotspots**
- **documentation system**
- **internal and external 5--
communication**
- **well trained and qualified team**
- **monitoring and dispersing tools**
- **incident and accident recording system**
- **reporting system**
- **responsibilities**
- **evaluation and risk assesment**

خطة مواجهة
حوادث ارتطام الطيور و الحياة البرية بالطائرات
مطار شرم الشيخ الدولي

- Habitat modification
- remove attractants
- active management
- committees
- training
- Qualified staff
- responsibilities and others



wild life hazard management plan



Requirement of ECAA

Egyptian Airports has the following challenges:

- Ecological Study
- migratory bird flyways
- bird attractants points and hotspots
- documentation system
- internal and external 5-- communication
- well trained and qualified team
- monitoring and dispersing tools
- incident and accident recording system
- reporting system
- responsibilities
- evaluation and risk assesment

جمهورية مصر العربية
وزارة الطيران المدني
الشركة المصرية للمطارات

خطة مواجهة
حوادث ارتطام الطيور و الحياة البرية بالطائرات
مطار شرم الشيخ الدولي

- Habitat modification
- remove attractants
- active management
- committees
- training
- Qualified staff
- responsibilities and others







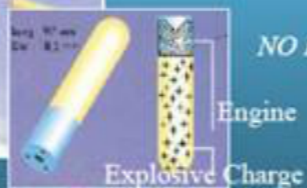


Wildlife Scaring Methods at Airports

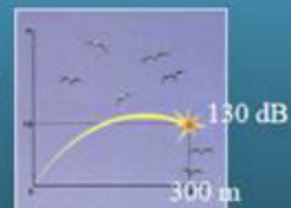
MOBILE BIRD SCARING EQUIPEMENTS

PYROTECHNIC

SELF-PROPELLED FLARE « CAPA »



*FLOCK of BIRDS or
SINGLE ONE
NO RISK OF FIRE*



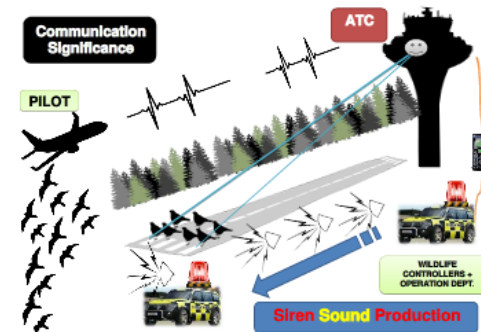
Prezi

during daily working to remove grass



Communications

- CAA
- EAA
- NAA Around Airports
- community
- Airport Operator
- Air Traffic Control
- follow me and Apron
- wildlife operator

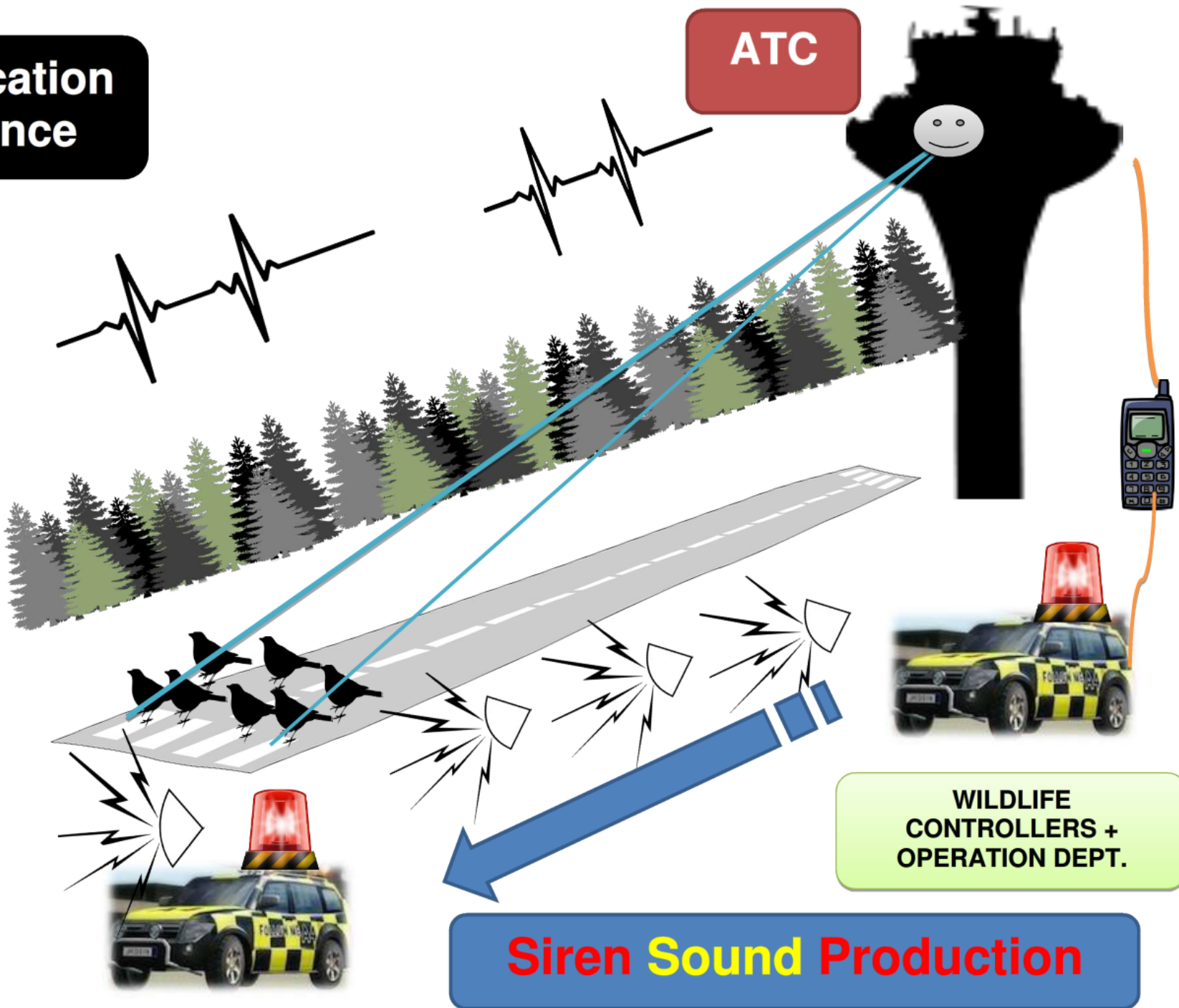


All this through wildlife coordinator

Communication Significance

PILOT

ATC



Siren Sound Production

WILDLIFE
CONTROLLERS +
OPERATION DEPT.



Implementation

awareness

Training

Workshop

senior manager
wildlife control operator
wildlife control coordinator
airport wildlife committee
stakeholders outside the airport



















document control

- **standardization of forms**

Daily report

evaluation daily report

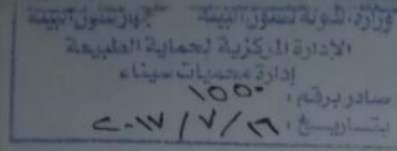
monthly report

record incident and accident

IBIS and data analysis

yearly report And data base





وزارة البيئة
جهاز شئون البيئة
قطاع حماية الطبيعة
الإدارة العامة لمحميات سيناء
التاريخ: ٢٠١٧/٧/١٥

محضر استلام

استلمنا نحن الإدارة العامة لمحميات سيناء عدد (١) قط برى وعدد (١٣) طريشه وعدد (١) ضب وجميعهم بحالة جيدة من شركة هارتك لمكافحة الحشرات بمطار شرم الشيخ الدولي وتم إطلاقهم بمحمية رأس محمد بمعرفة الباحثين بالمحمية بتاريخ ٢٠١٧/٧/١٥.

وتفضلوا بقبول وافر التحية والاحترام .

جيولوجي / محمد عبدالله قطب

مدير عام محميات سيناء





record Incident / accident for birds and wildlife at the airport

n	date	time	Incident / accident	agent	No. trip	Aircraft registration	type airplane	No. of passenger	Height time of collision	Aircraft Type	remarks

Incident / accident

.....
.....

The incident during (take off - landing – En route)

.....

Action taken: -

.....

Corrective action:-

.....
.....

Damage incident

.....
.....

did human or material losses

.....

Pilot survey about the accident or incident

.....

.....
.....

Bird (single- flocks)

.....

Prepared by: -

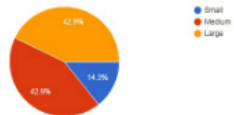
Director of Environmental Management

Data Analysis

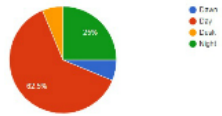
some record occurrence at airports



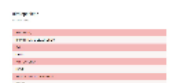
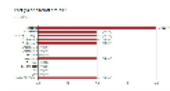
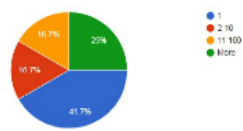
Size of birds?
7 responses



Local time?
13 responses



Number of birds seen?
12 responses/100



press link

<https://docs.google.com/forms/d/1-Y12vmupBSFRMUCYb42oMAS5PWUoxPalgjdvdZ77I>

viewform

**Don't Let Your
Dreams Go Up In Smoke,**

**Practice
Wildlife Hazard
Management...**

Bird strike reporting form

Automatic wildlife easily accessible reporting form connected with instant statistical information to be filled out by aircraft operators, airport personnel, and any other personnel.

Kindly fill out the blanks...

Operator?

Kindly type the name of operator...

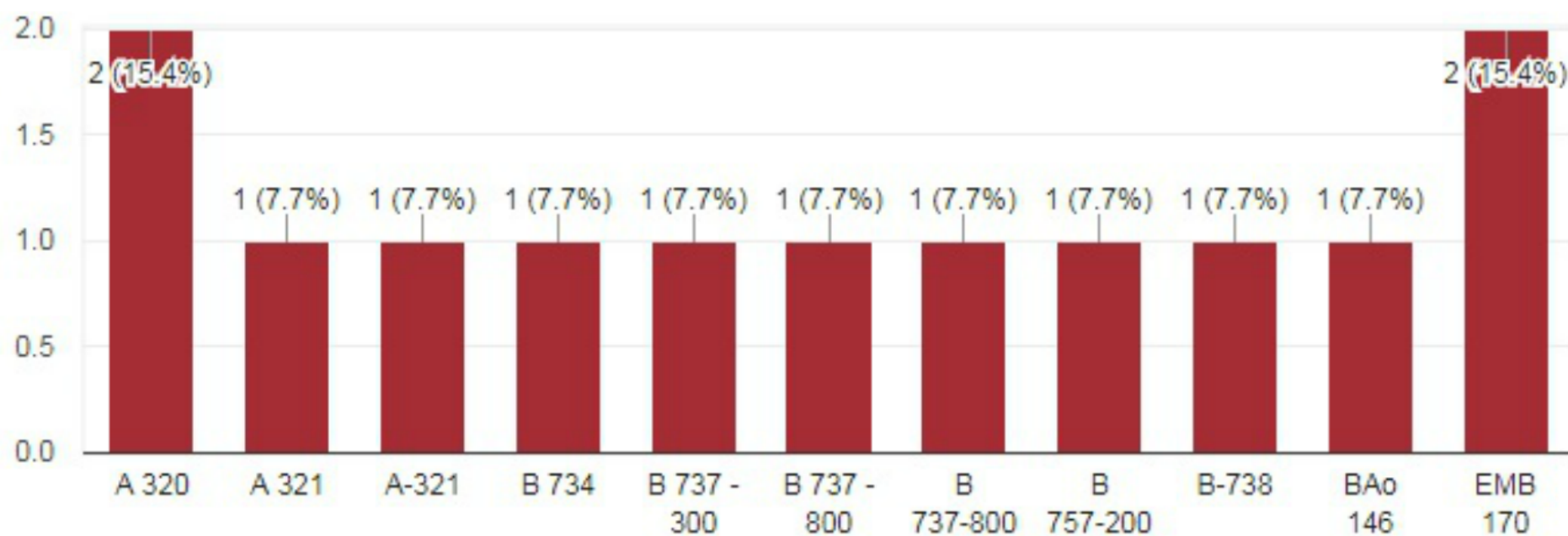
Your answer

Aircraft Make/Model?

Your answer

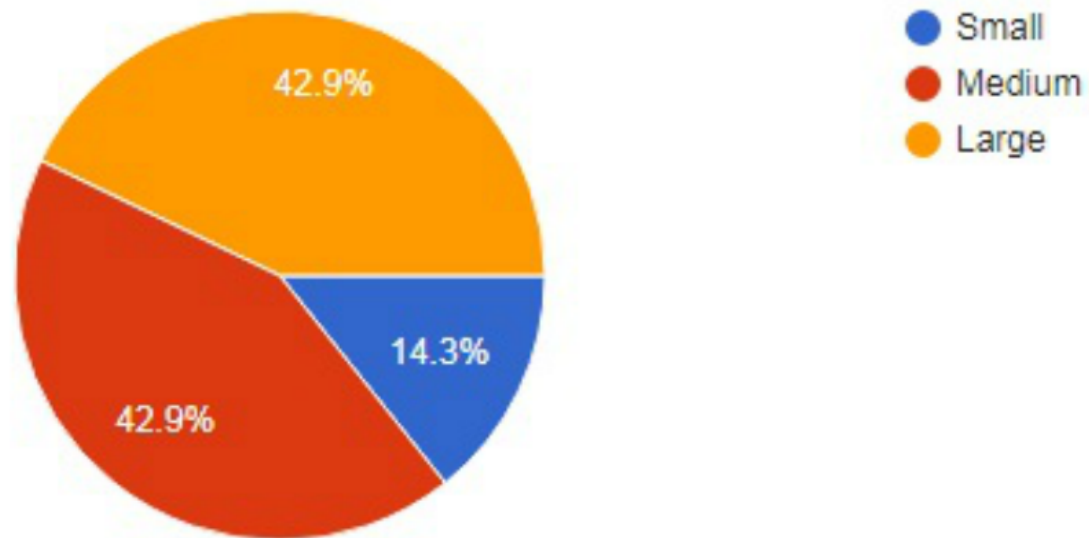
Aircraft Make/Model?

13 responses



Size of birds?

7 responses

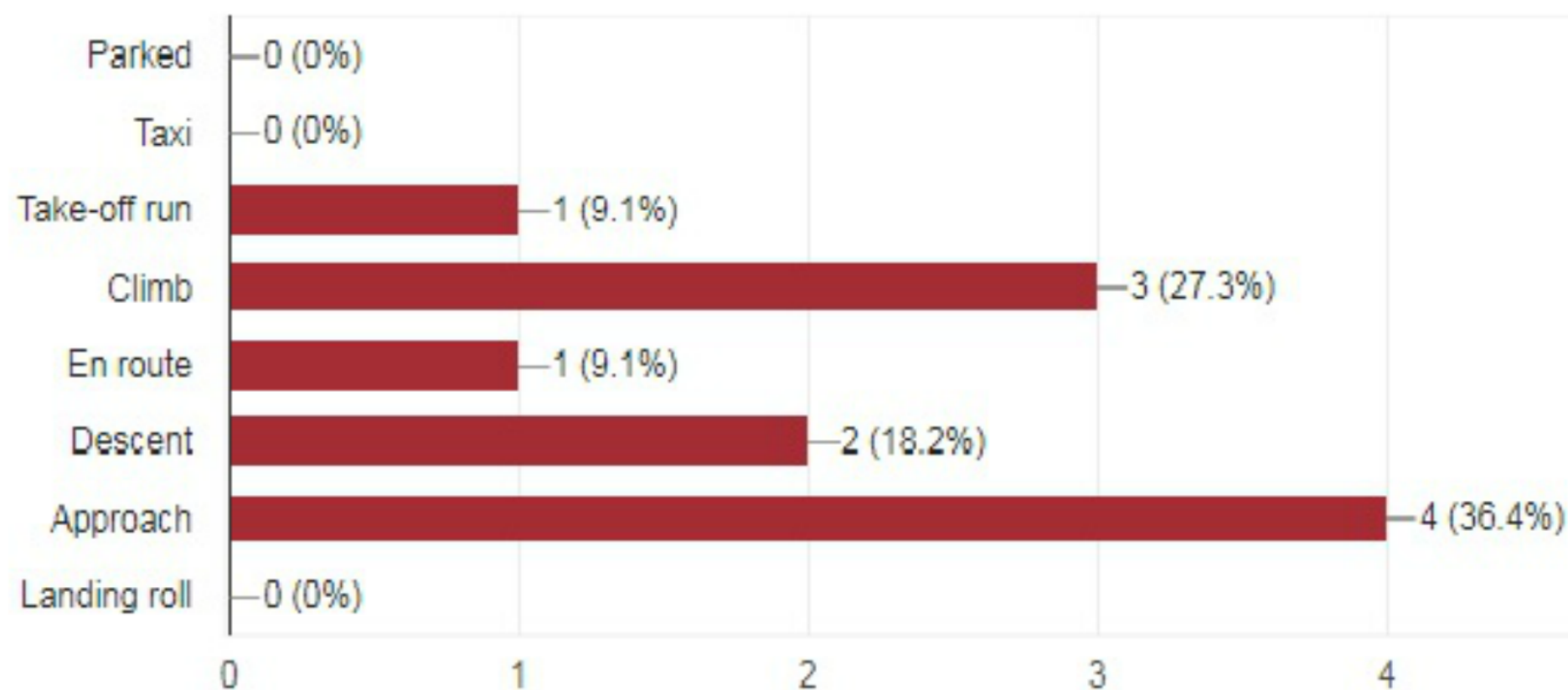


Local time?

16 responses

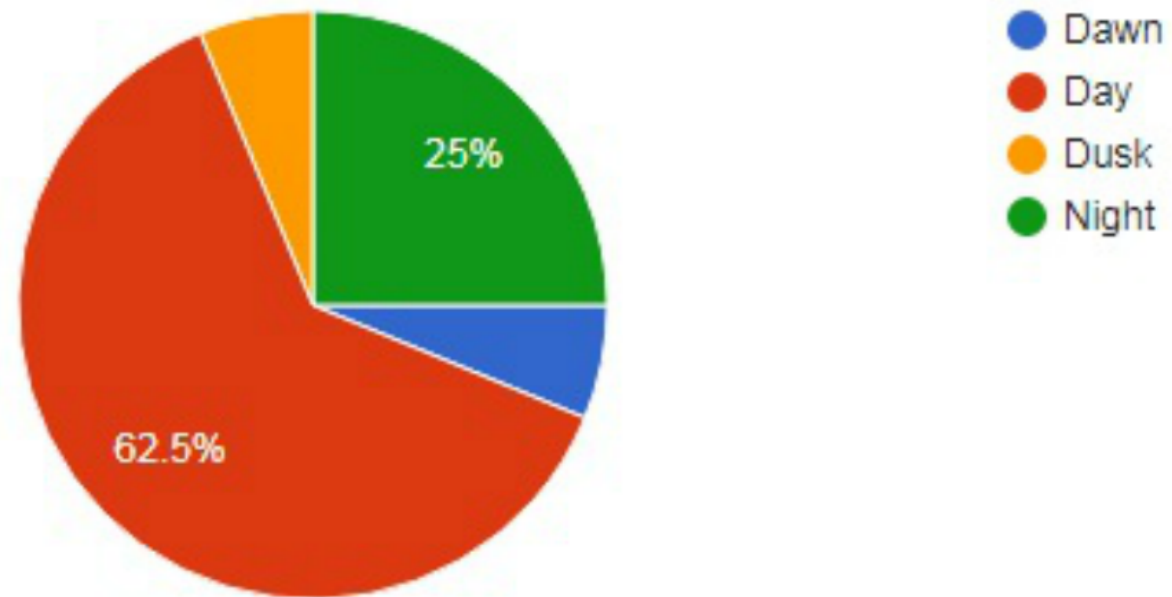
Phase of flight?

11 responses



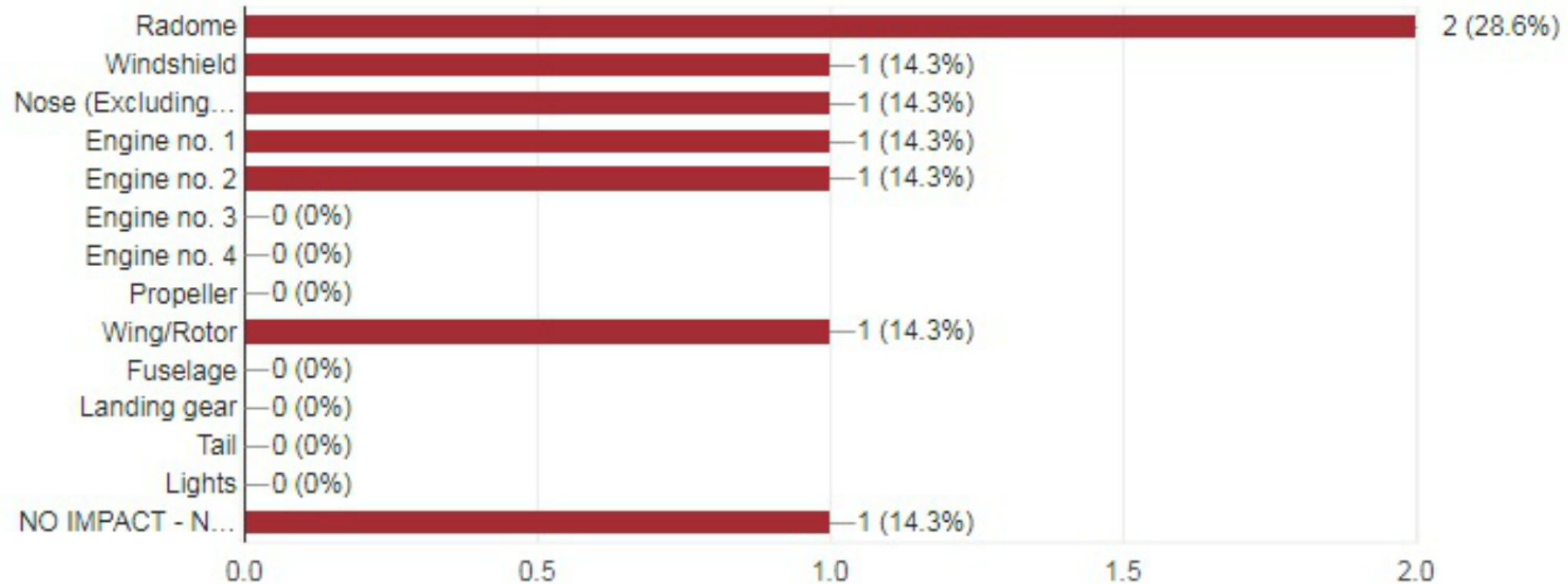
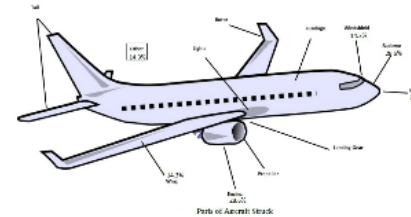
Local time?

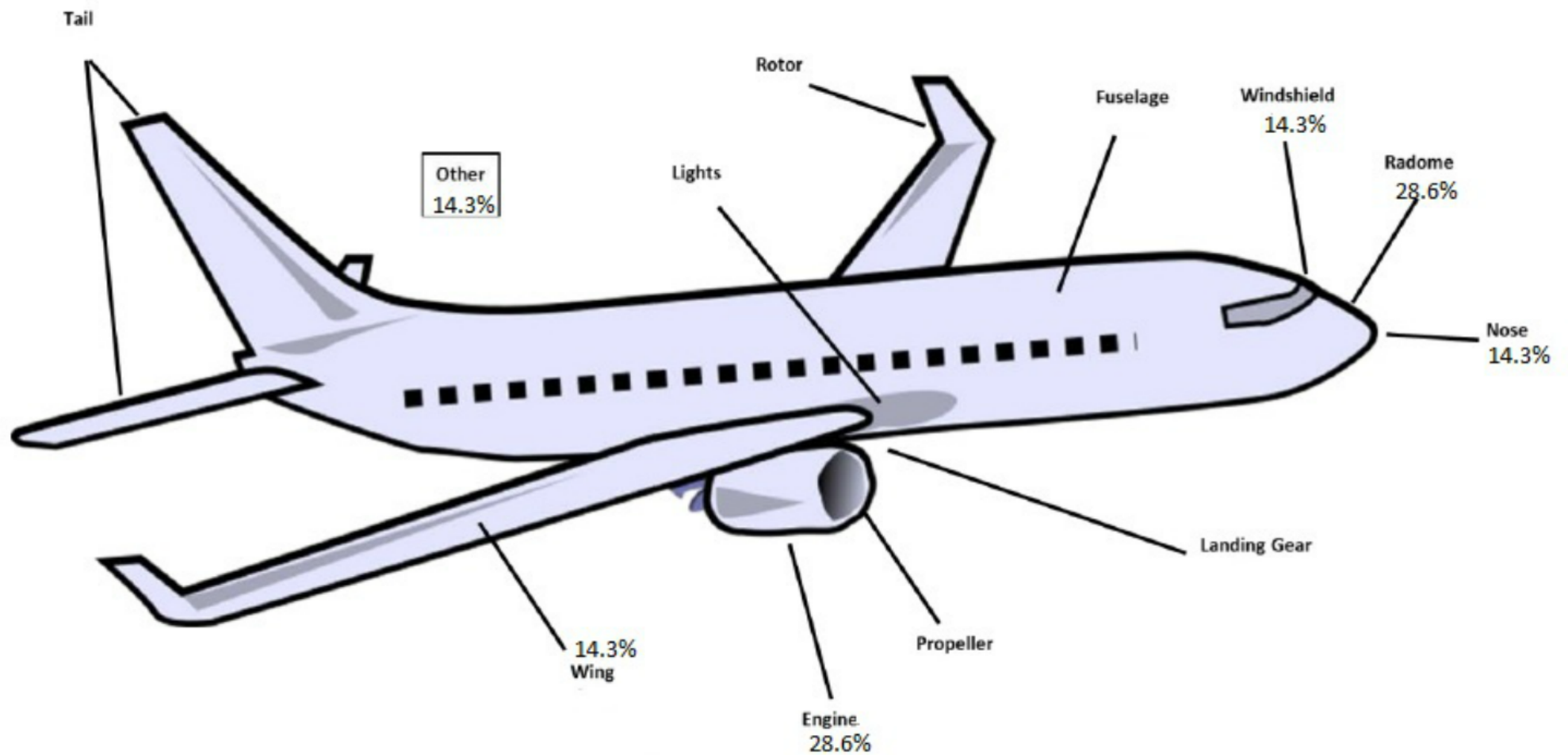
16 responses



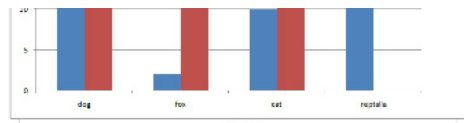
Part (s) of aircraft struck?

7 responses



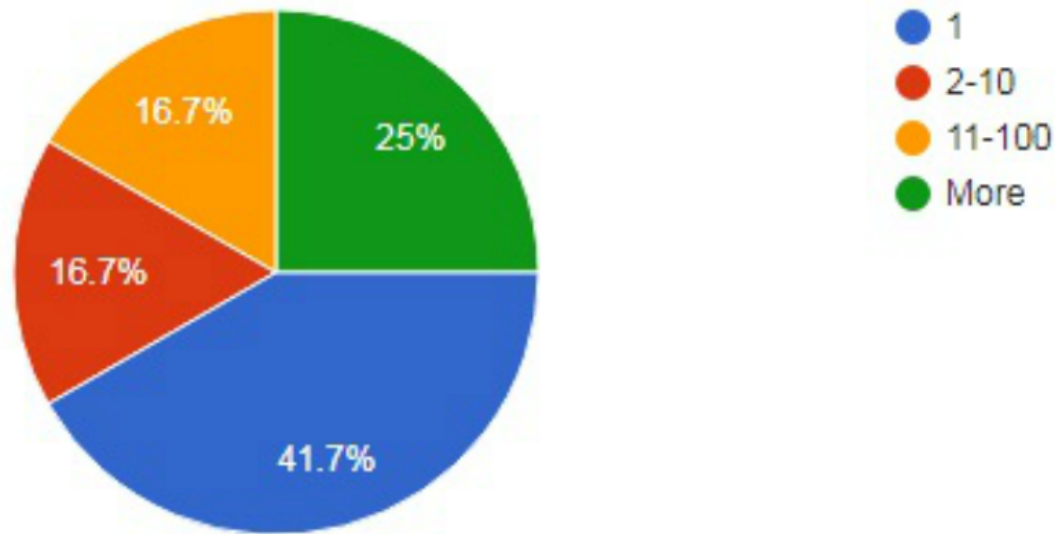



Parts of Aircraft Struck



Number of birds seen?

12 responses





Bird species?

10 responses

unknown (3)

BIG WHITE AND BLACK BIRDS

OWL

CROW

WHITE STORCK

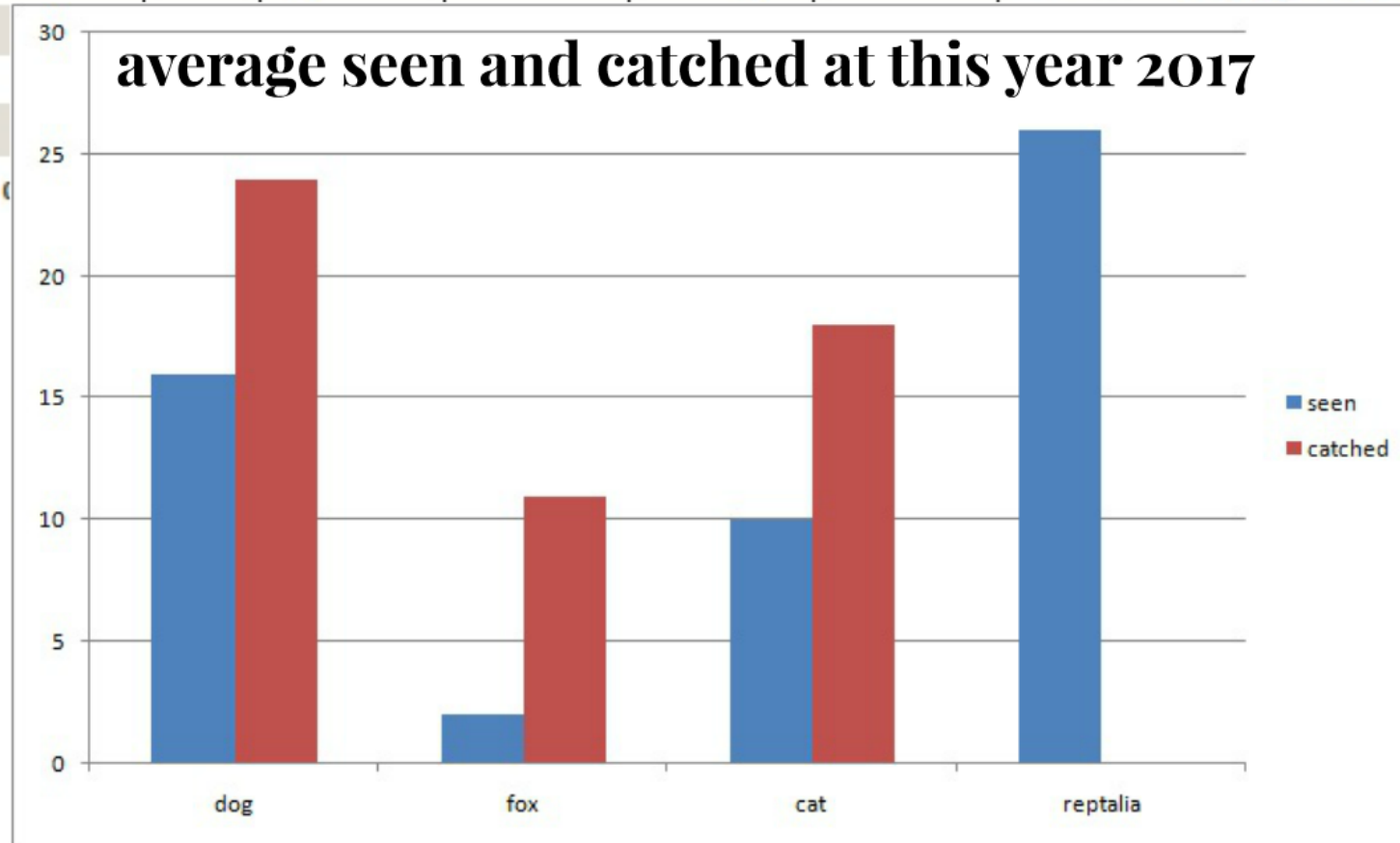
HAWK

STORCK - ABOUT 7000 BIRDS

pigeon

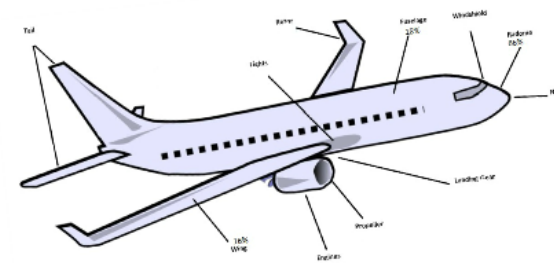
إحصائية الحياة البرية وبلاغات الطيور عن الفترة من ١ أغسطس ٢٠١٧ الي ٣١ أغسطس ٢٠١٧

الطيور بلاغات		المجموع	الحياة البرية								المجموع	التاريخ
			زواحف		قطط		تعالب		كلاب			
خارجي	داخلي		صيد	مشاهدة	صيد	مشاهدة	صيد	مشاهدة	صيد	مشاهدة		
									2		2	٠٥ أغسطس، ٢٠١٧
									2		2	٠٧ أغسطس، ٢٠١٧
			1								1	٠٨ أغسطس، ٢٠١٧
									1		1	١١ أغسطس، ٢٠١٧
			3						1		4	١٢ أغسطس، ٢٠١٧
			4								4	١٣ أغسطس، ٢٠١٧
			1					1			2	١٤ أغسطس، ٢٠١٧

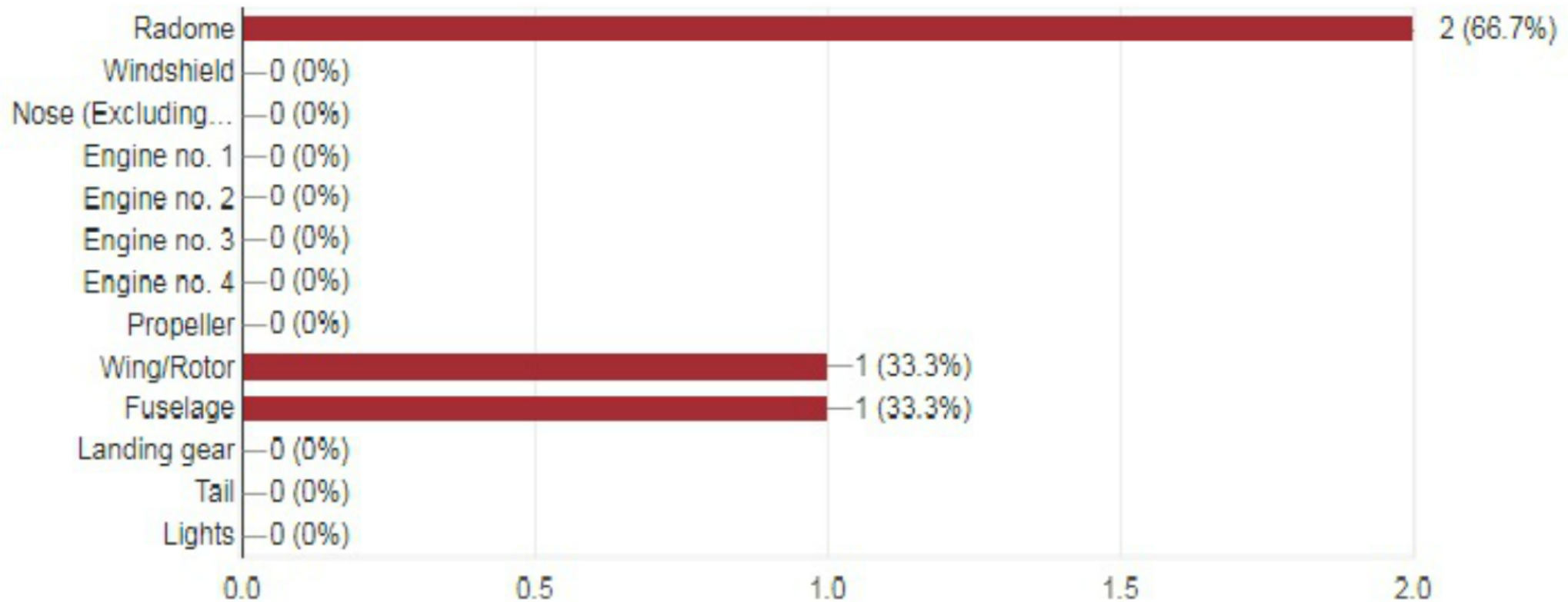


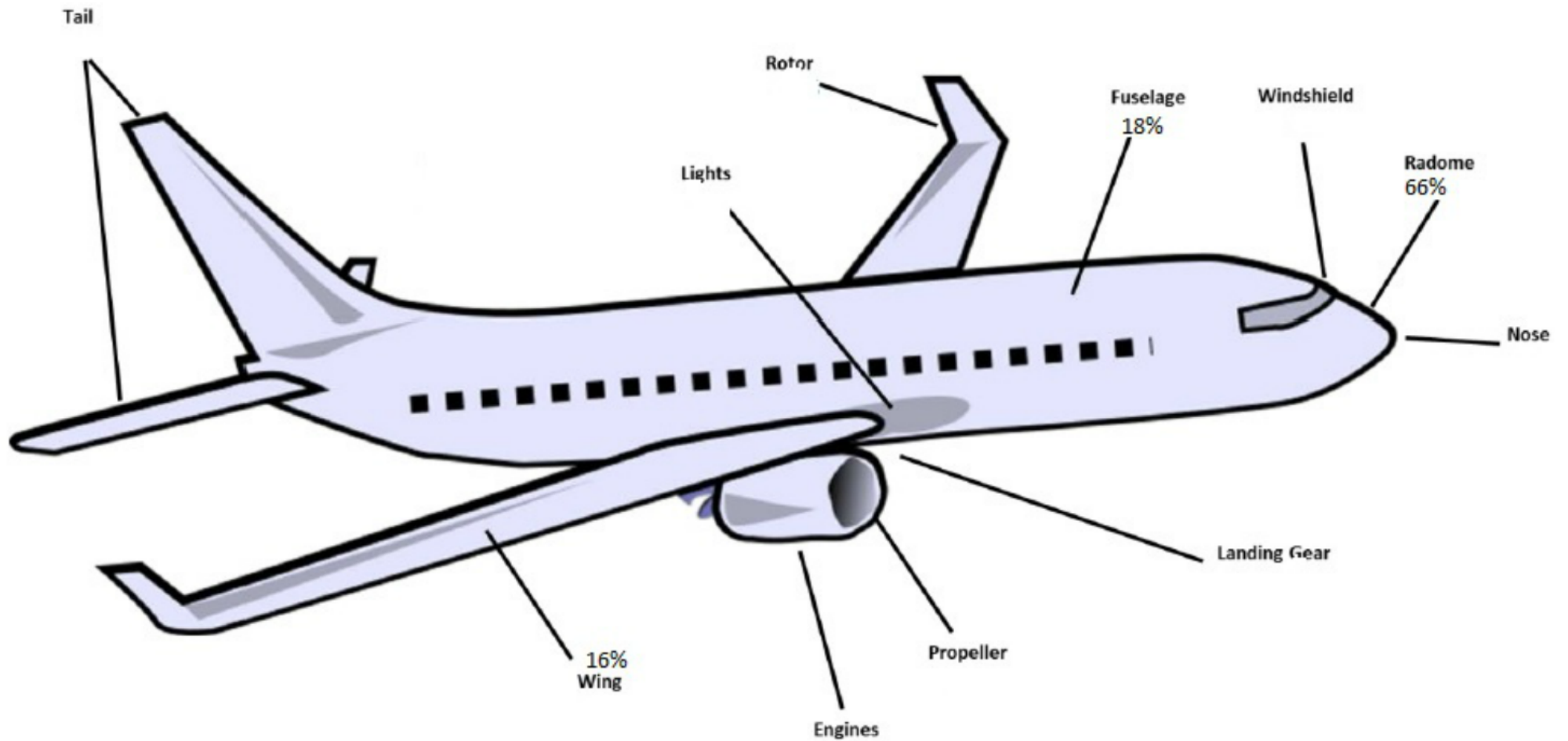
Part (s) of aircraft Damaged?

3 responses



Parts of Aircraft Damaged

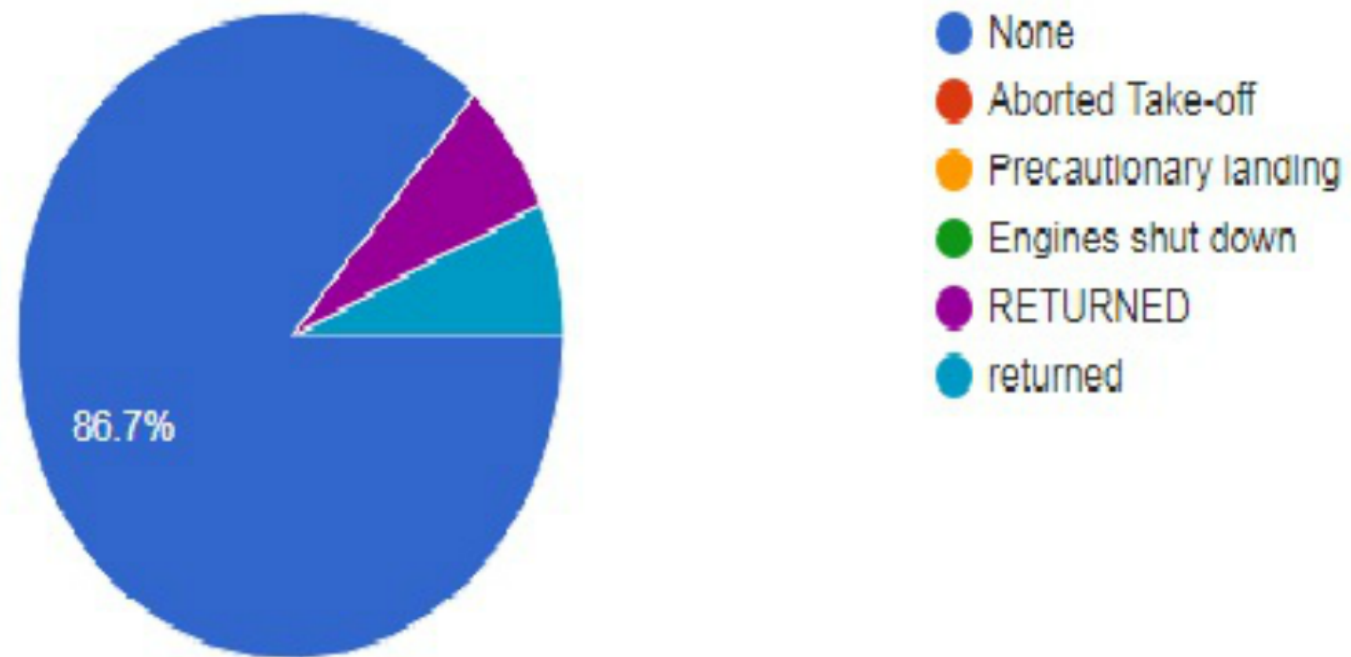




Parts of Aircraft Damage

Effect on flight?

15 responses



Bird Hazard In Route

Our Goal:

Safer Skies for all who fly

Birds and People



Thank You

WHMP

is an acronym for
Wildlife Hazard
Management Plan

usama basiony

by allacronyms.com

