The Current Situation

Session #2
Presentation #1

Wildlife & FOD Workshop

Session #1
Welcome & Opening

Wildlife & FOD Workshop

24- 26 March 2014

Cairo, Egypt

Session 2

Presentation 1

Definitions

- **FOD:** Any object that does not belong in or near airplanes and, as a result, can injure airport or airline personnel and damage airplanes. (Boeing)

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Definitions

- **Wildlife:** Any wild animal, including without limitation any wild mammal, bird, reptile, fish, amphibian, mollusk, crustacean, arthropod, coelenterate, or other invertebrate, including any part, product, egg, or offspring thereof. (FAA)

Manchester Ringway International Airport - UK
29/4/07
09:15 am

Data collection

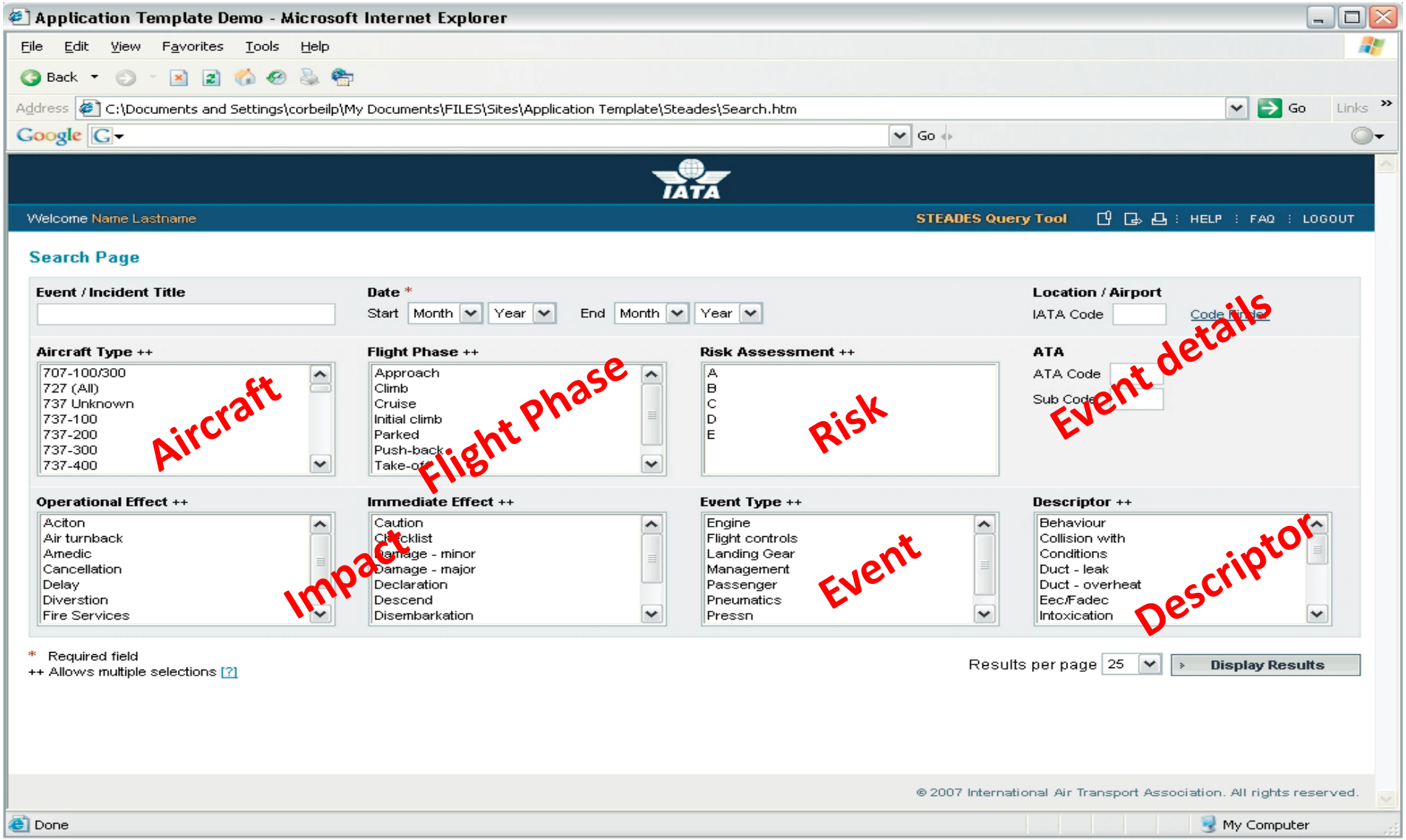
- Air Safety Reports (ASR)
- Cabin Safety Reports (CSR)

- Data collection depends on reporting culture
- Collection is dynamic

Reporting Tool

Safety Trend Evaluation, Analysis & Data Exchange System (STEADES)

- De-identified safety incident reports
- Over 165 participating airlines
- Annual reporting rate >150,000 reports/year
- Build in quality control processes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Aircraft Type ++
707-100/300
727 (All)
737 Unknown
737-100
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Aircraft
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Damage - major
Declaration
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Disembarkation
Impact
Event Type ++
Engine
Flight controls
Landing Gear
Management
Passenger
Pneumatics
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Behaviour
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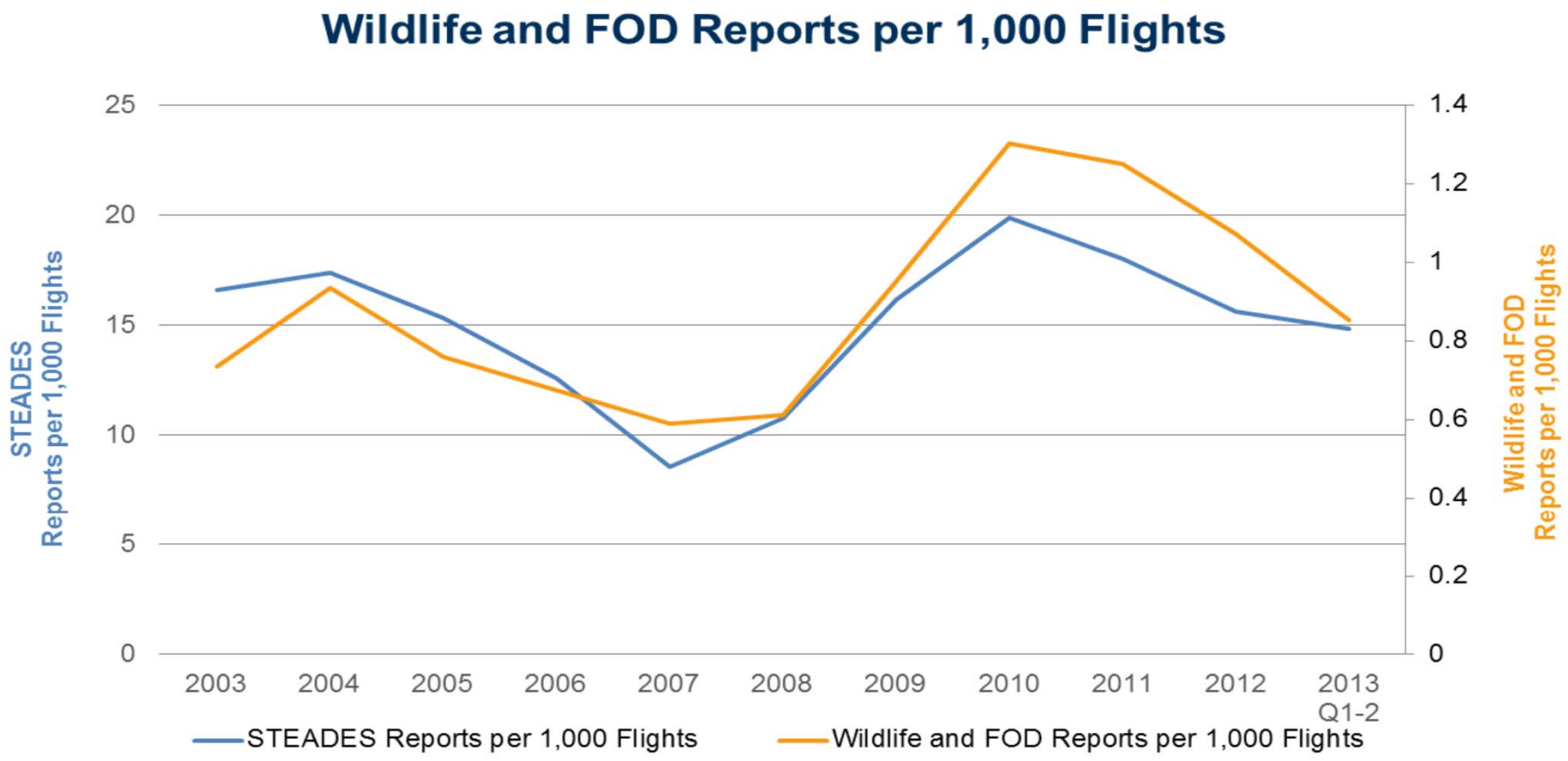
Wildlife and FOD Reports per 1,000 Flights
STEADES Reports per 1,000 Flights
Wildlife and FOD Reports per 1,000 Flights
25
20
15
10
5
0
1.4
1.2
1
0.8
0.6
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0
2003
2004
2005
2006
2007
2008
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2010
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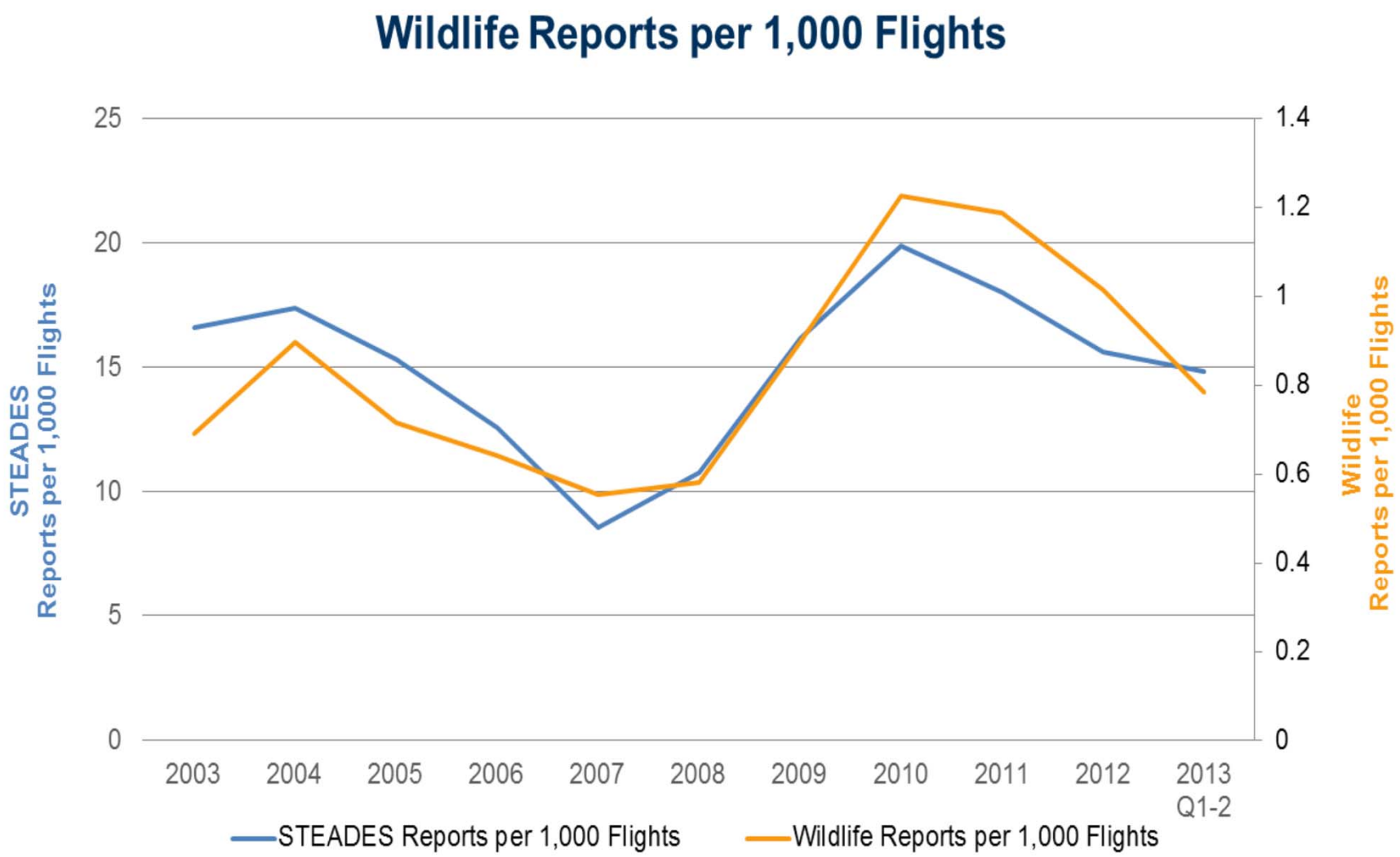
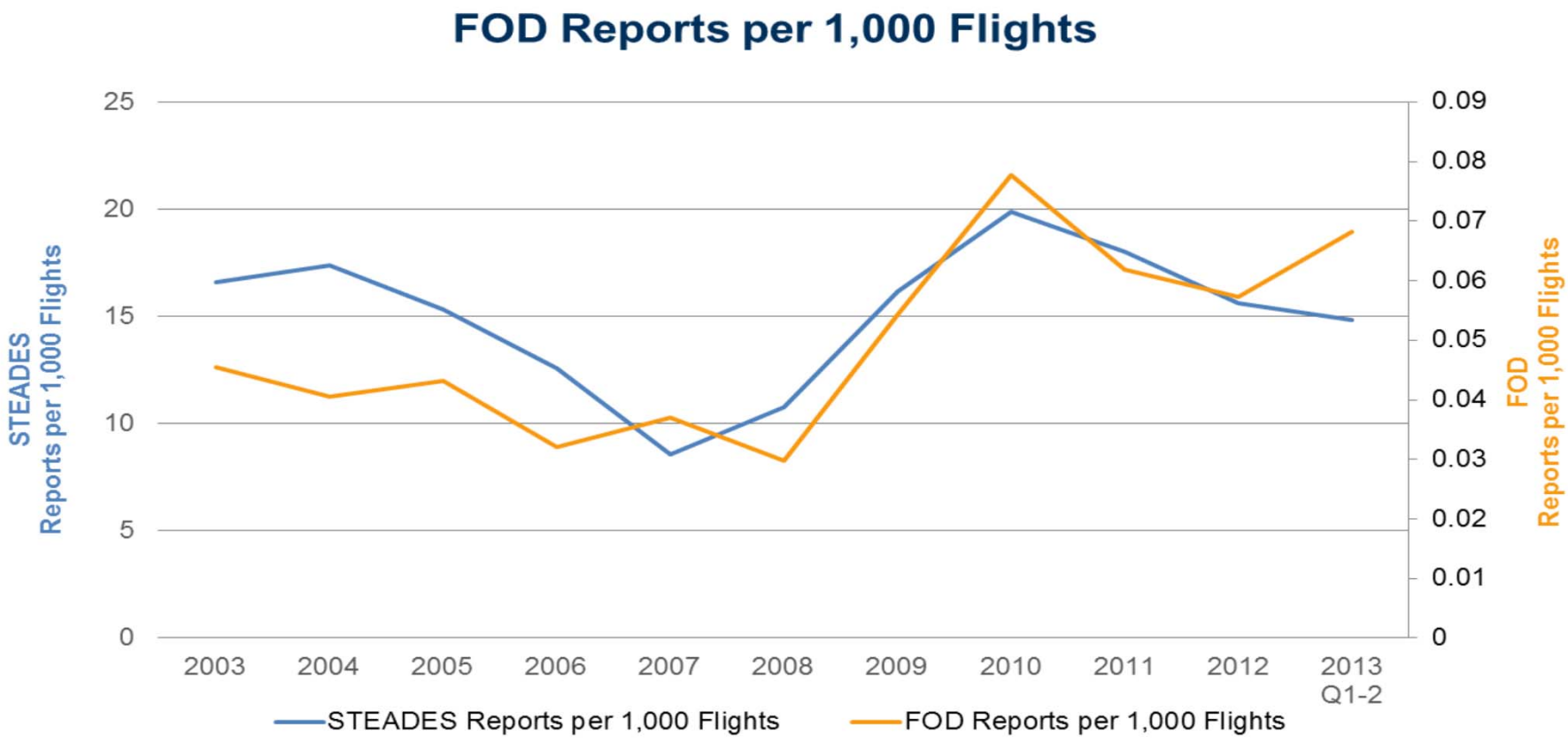
2012
2013 Q1-2
STEADES Reports per 1,000 Flights
Wildlife and FOD Reports per 1,000 Flights

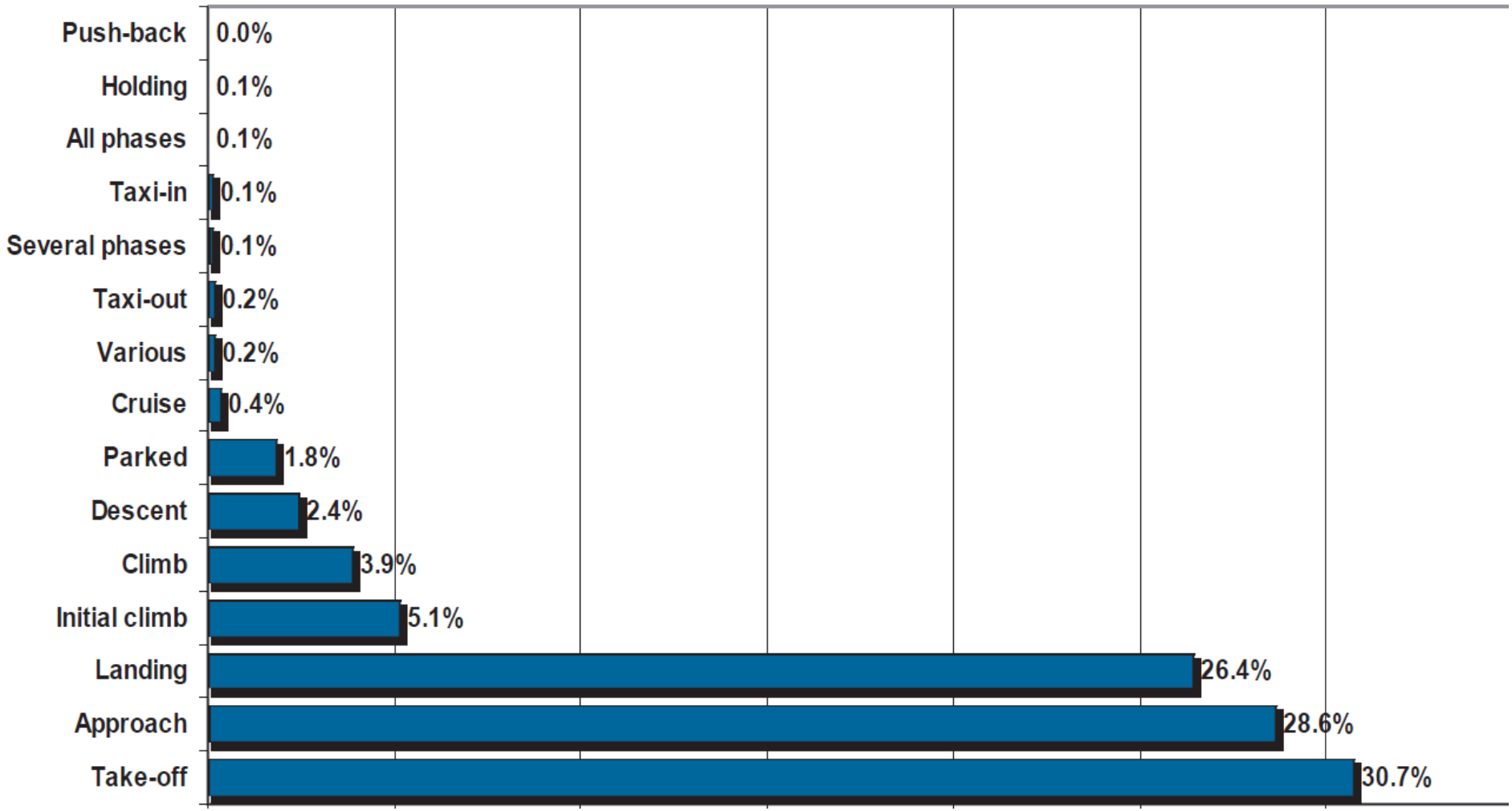
Wildlife and FOD Reports



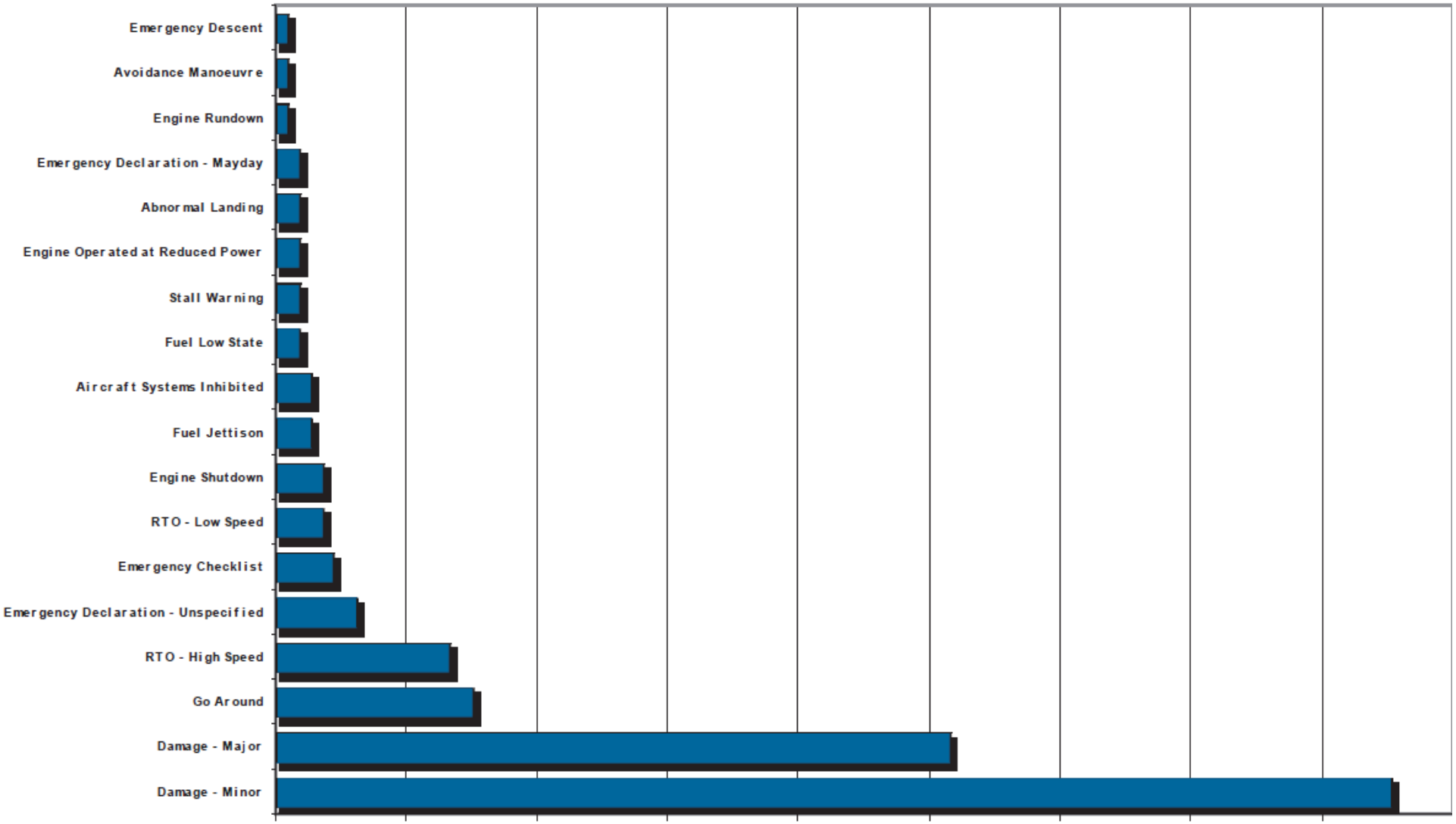
Wildlife and FOD Reports



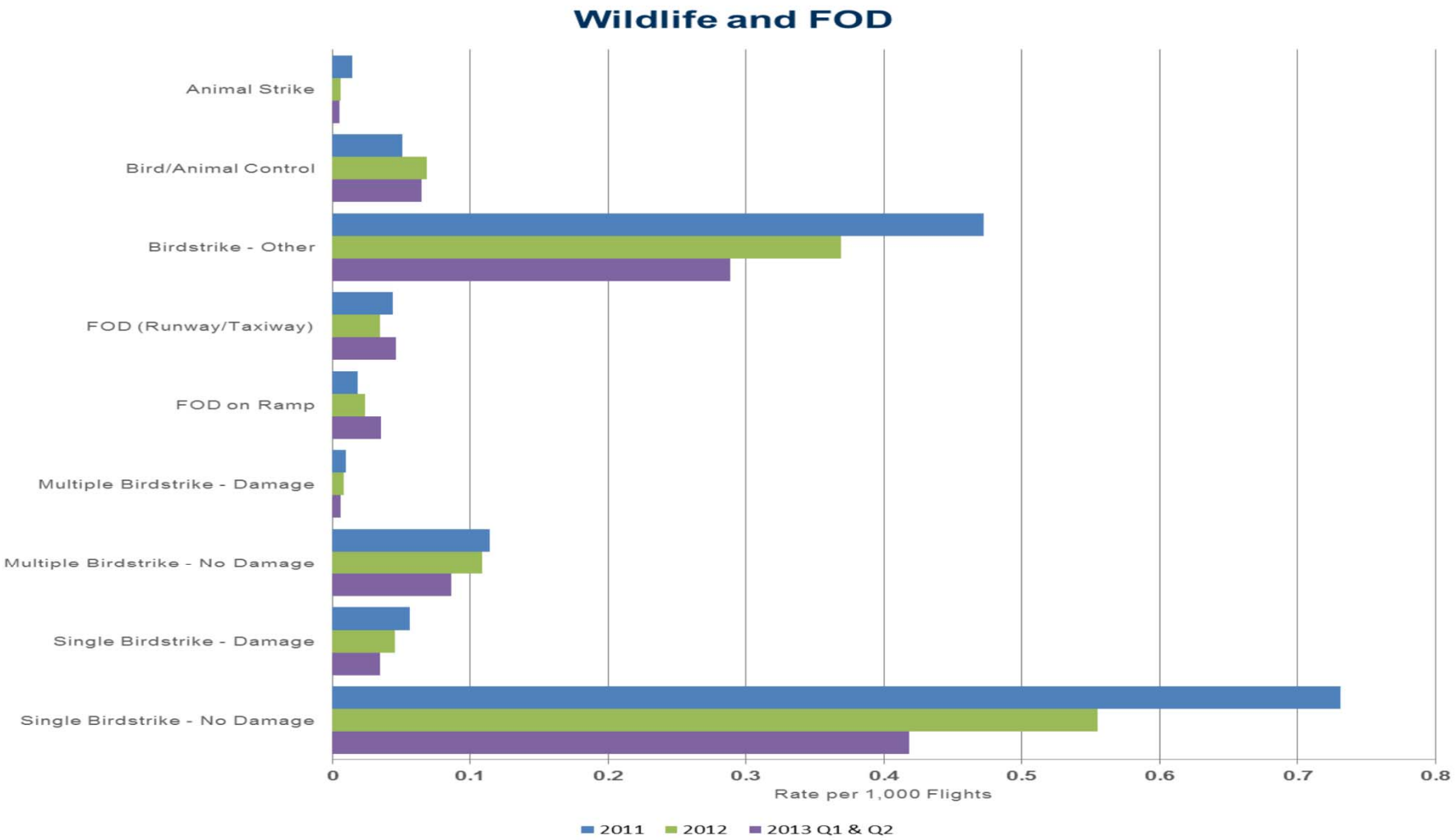
Phase of Flight



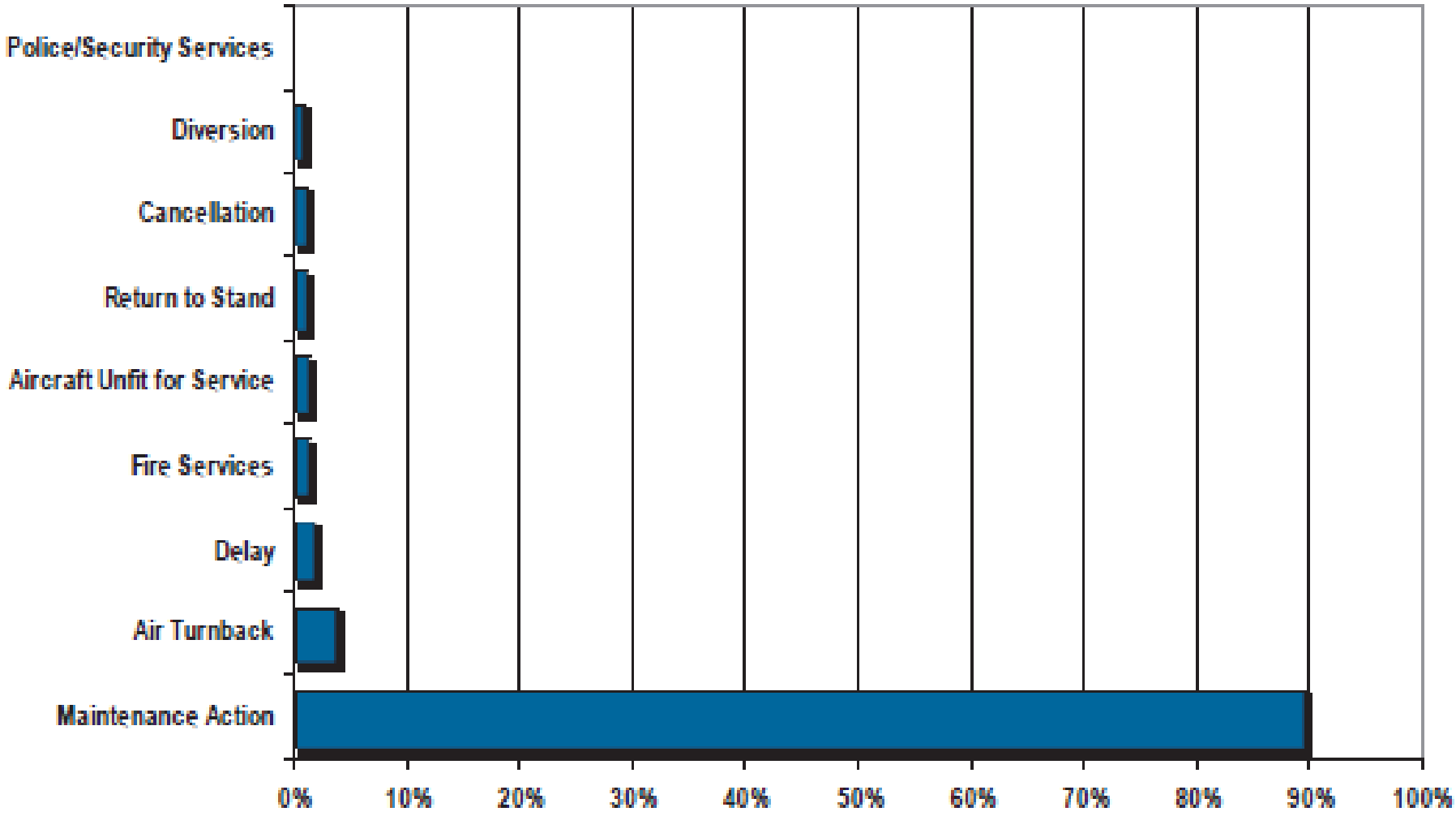
Immediate Effect



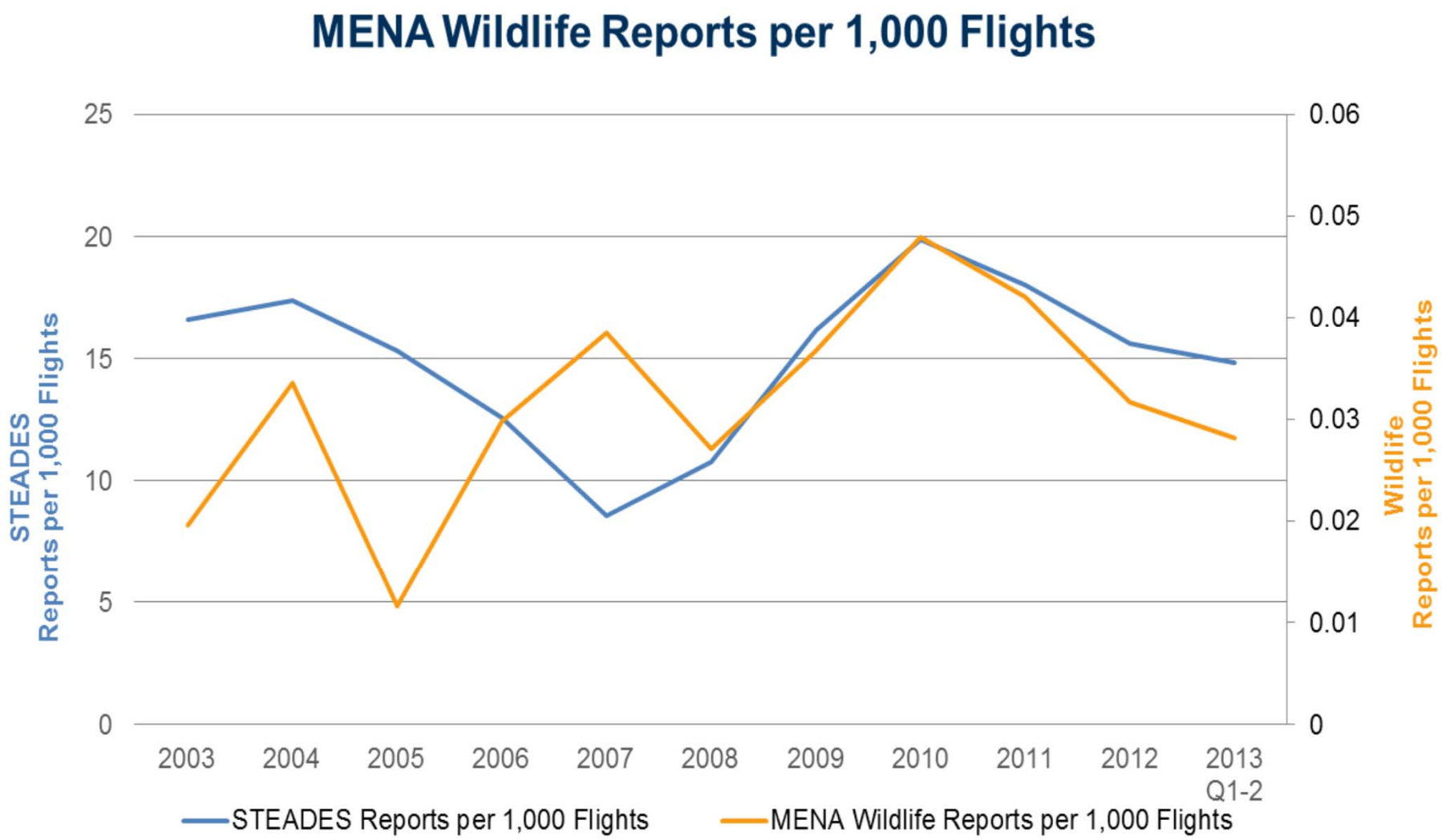
Wildlife and FOD Reports



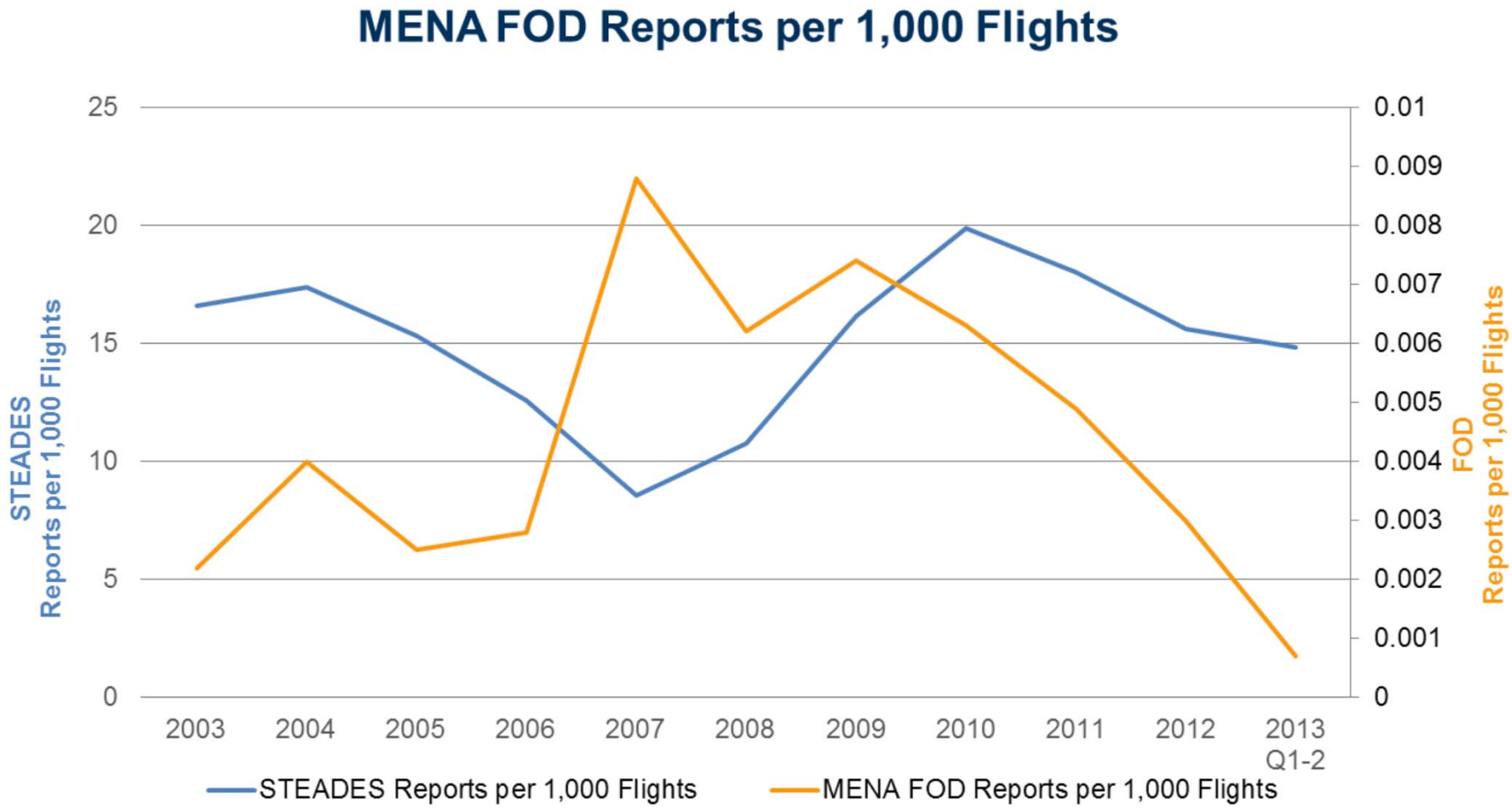
Operational Effect



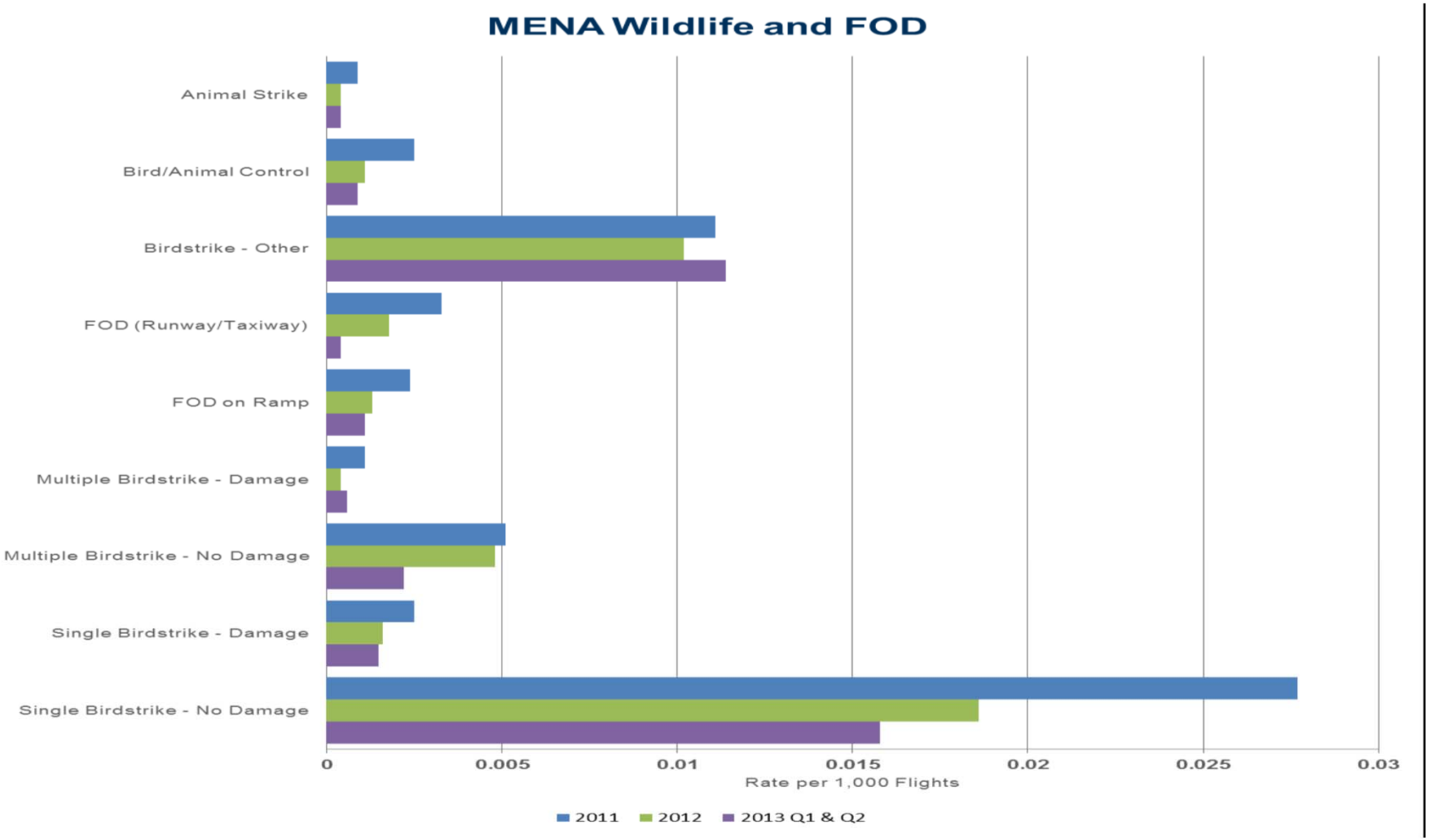
Wildlife and FOD Reports



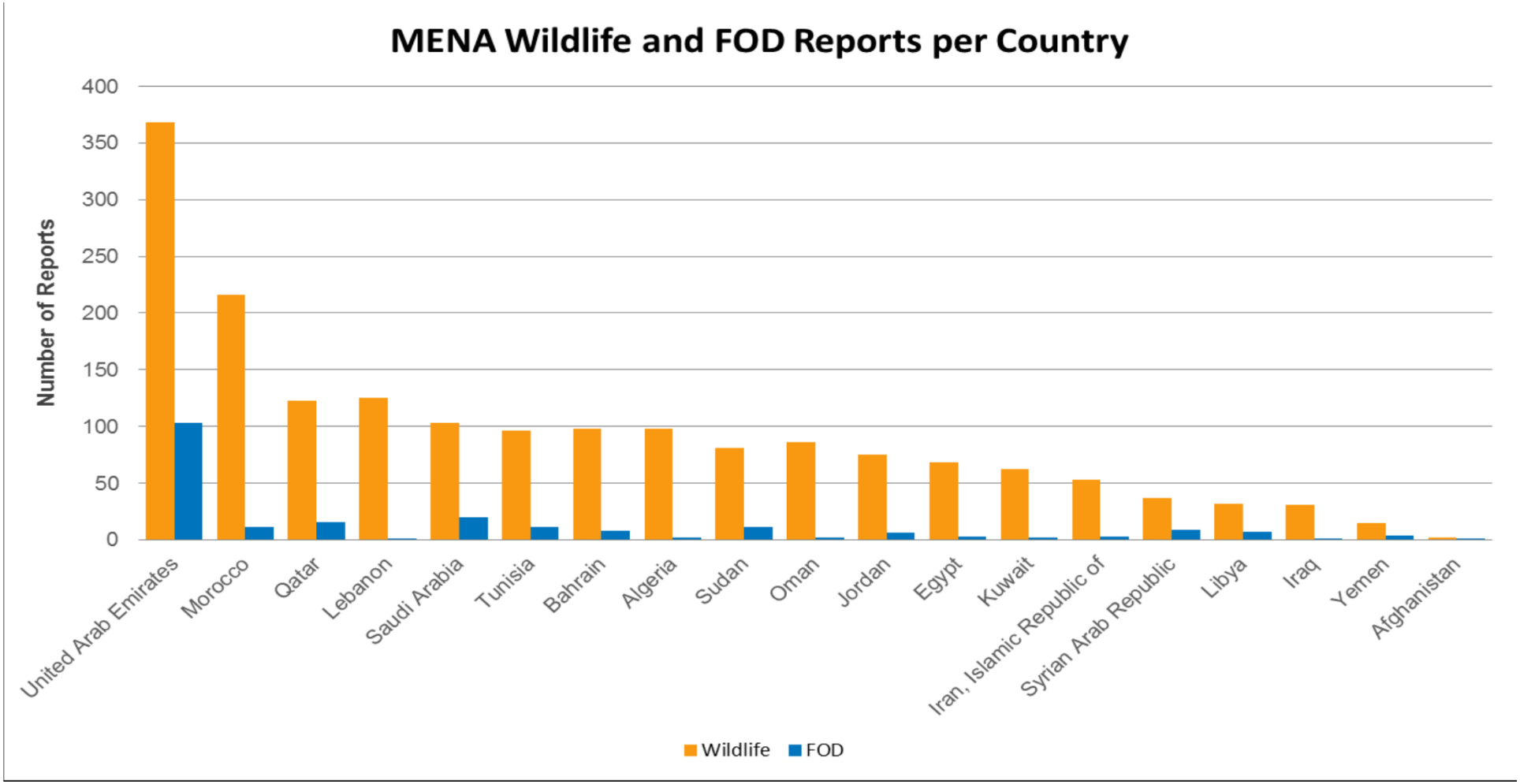
Wildlife and FOD Reports



Wildlife and FOD Reports



Wildlife and FOD Reports



GADM Airport Analysis Example

A high level analysis of airport and or specific reports captured in GADM STEADES

2009 to 2012

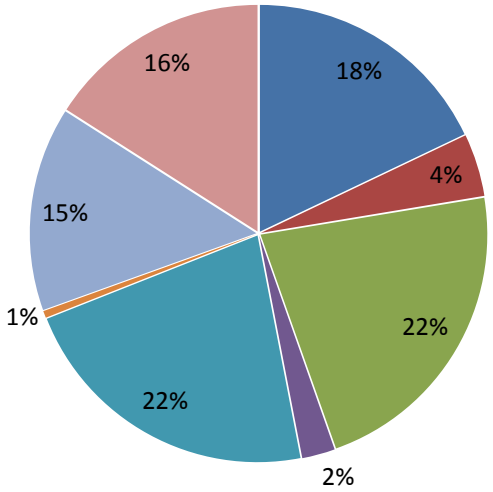
GADM STEADES Report Distribution

- Scope included ASR from 2009 Q1 – 2012 Q4

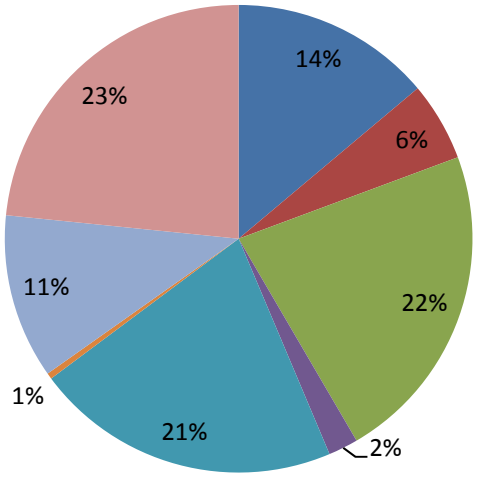
	Global	Region MENA	Country	Airport
Total Reports in GADM STEADES	469,013	19,749	916	653
Total World Flights	141,324,832	-	-	-
Total GADM STEADES Flights	26,674,947	-	-	-
% of World Flights	19%	-	-	-

- A. Airside Infrastructure
- B. Communications & Navigation
- C. Air Traffic Management
- D. Aeronautical & Airport Information Services
- E. Airport Ground Services
- F. Meteorological Services
- G. Weather
- H. Outcomes

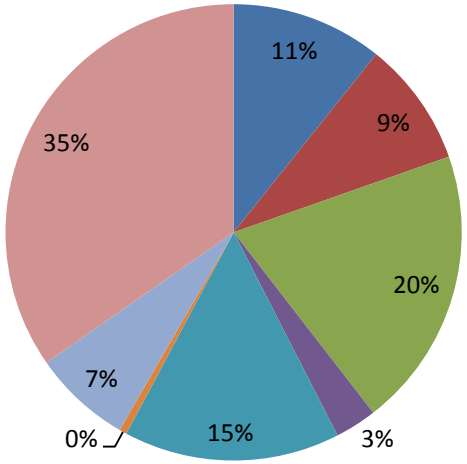
Global Occurrence



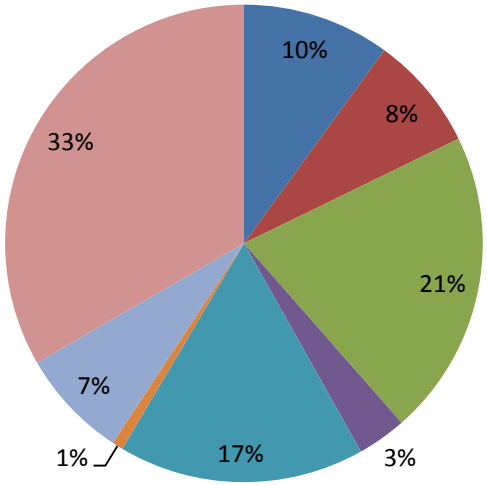
Region Occurrence



Country Occurrence



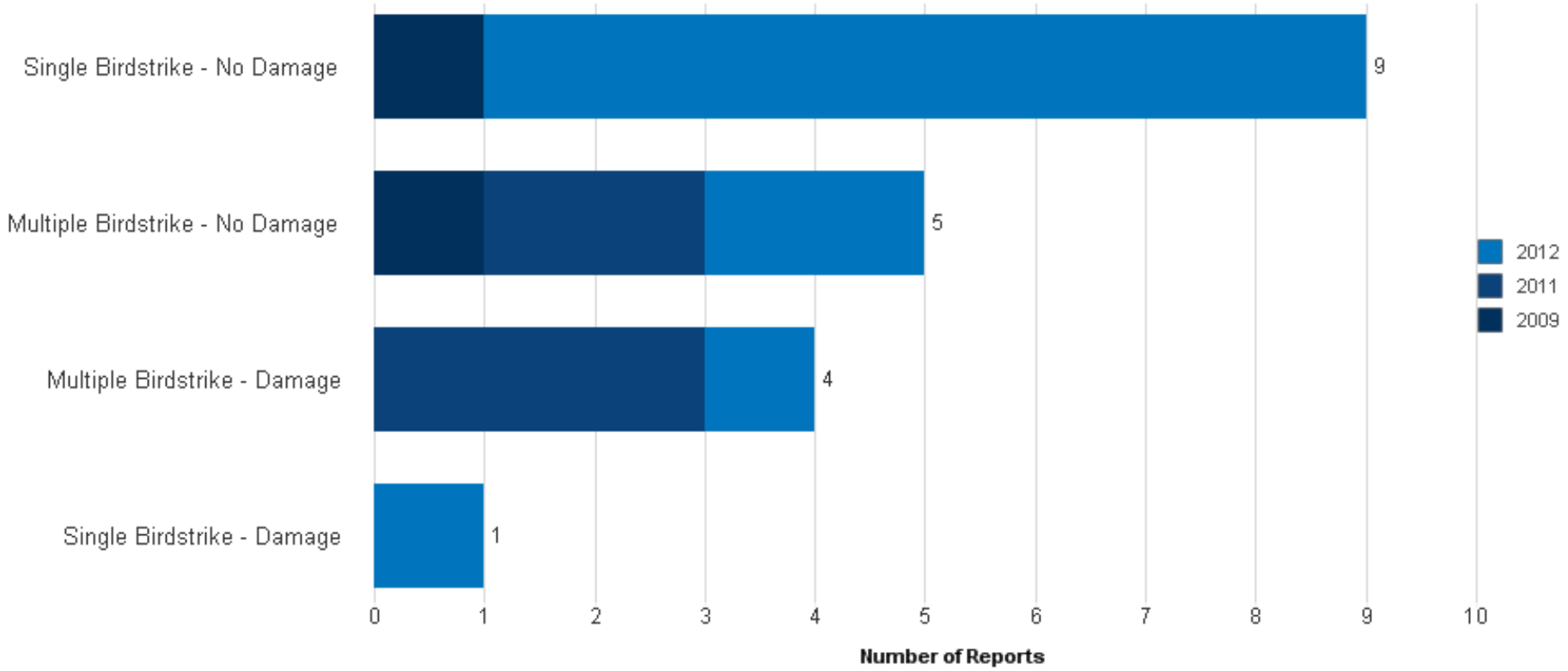
Occurrence Airport



Wildlife Hazard Control Descriptors

- Inadequacies with/or unsatisfactory bird or animal control at a departure or arrival airport (Bird/Animal Control)
- Single birdstrike with no damage found on inspection
- Single birdstrike with resultant damage
- Multiple birdstrike with no damage found on inspection
- Multiple birdstrike with resultant damage
- A strike by an animal during the take-off or landing phase

Wildlife Hazard Analysis



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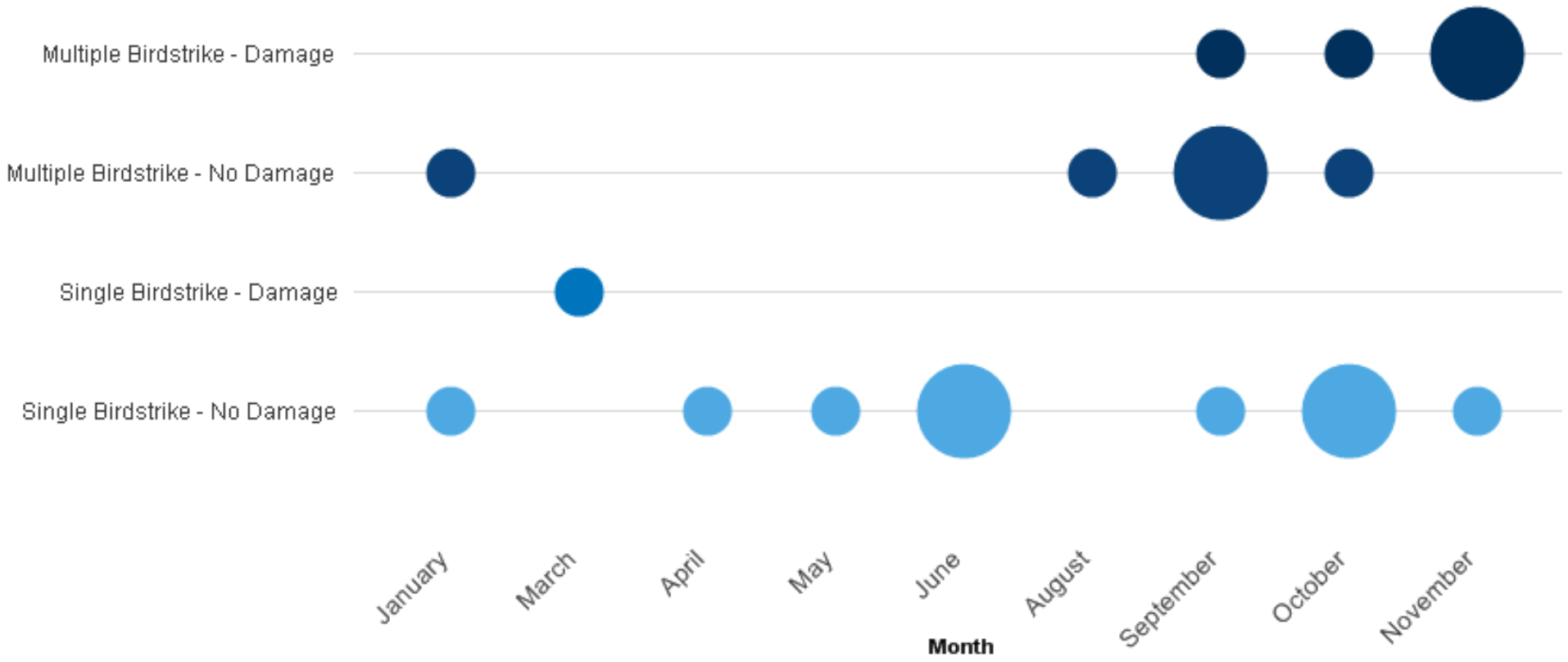
Wildlife Hazard Control by Month



TOPICS OF INTEREST

- AIRSIDE INFRASTRUCTURE
- WILDLIFE HAZARD CONTROL
- COMMUNICATIONS & NAVIGATION
- AIR TRAFFIC MANAGEMENT
- AERONAUTICAL & AIRPORT INFORMATION SERVICES
- AIRPORT GROUND SERVICES
- METEOROLOGICAL SERVICES
- WEATHER

Conclusions

- Data is available
- Reports are done with different focus areas
- Data is used in the Annual Safety Report

- Increase awareness of all stakeholders
- Increase collaboration in mitigation
- Increase database

Thank you!
Questions?