

Embry-Riddle Aeronautical University

Dr. Archie M. Dickey
ERAU-Prescott

Dr. Michel Hovan
FAA Airport Technology R&D Branch



November 2003
Daytona Beach, FL



On-Line Bird Strike Reporting and On-Line Access to the FAA Wildlife Strike Database



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Project Goals

Project provided the Aviation Community with:

- A user-friendly way to report wildlife strikes (a daily occurrence)
- An analysis tool to mitigate the bird strike risk



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Project Relevance

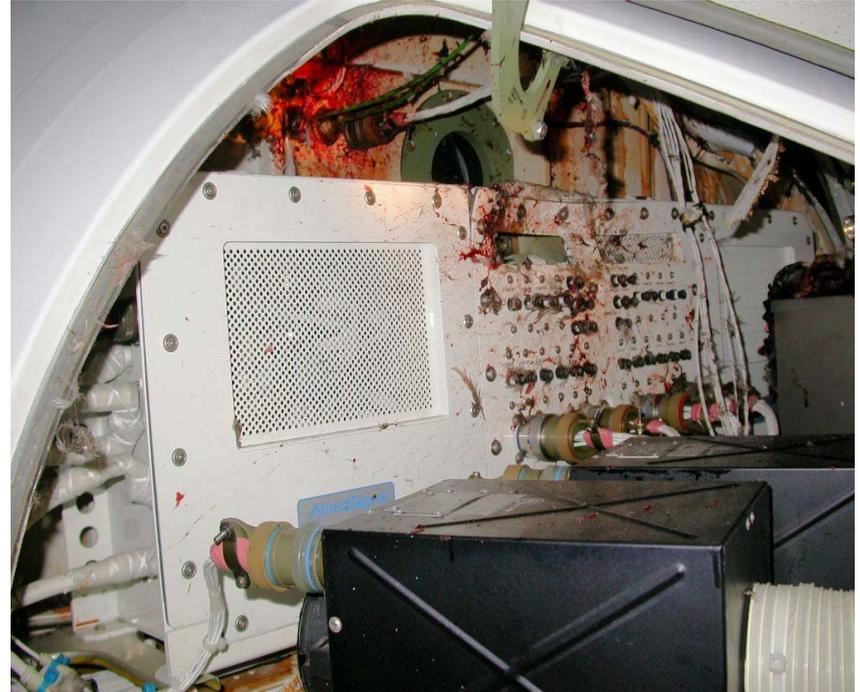
Wild Turkey – Dulles – March 9, 2002



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**January 8, 2002,
Medford, OR
Altitude – 1,300 feet AGL**



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General Aviation Bird Strike

July 08, 2003 in McKinney, TX

NTSB Identification: FTW03FA182

14 CFR Part 91: General Aviation

Aircraft: Cessna 172S

Registration: N166ME

Injuries: 2 Fatal



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Population Status of the 14 Bird Species in N. America with Mean Body Masses >8 lbs (3.6 kg)

Rank	Species	Mass (lbs)	Years covered	Population trend	MAPC*	Current population
1	Mute swan	26.01	1966-2000	Increase	+13.9	>7,000
2	Trumpeter swan	25.13	1968-2000	Increase	+5.9	23,647
3	California condor	22.28	1987-2002	Increase	+	58
4	Wild turkey	16.31	1959-1994	Increase	+6.1	4,000,000
5	Tundra swan	15.65	1970-2001	Increase	+1.7	189,000
6	Am. white pelican	15.43	1980-2000	Increase	+2.9	120,000
7	Whooping crane	12.84	1966-1996	Increase	+5.4	205
8	Sandhill crane	12.78	1966-2000	Increase	+6.9	520,000
9	Yellow-billed loon	12.13	2001	Unknown		>3,000
10	Bald eagle	11.79	1966-2000	Increase	+8.0	70,000
11	Golden eagle	10.83	1980-2000	Increase	+4.8	
12	Canada goose	9.22	1966-2000	Increase	+10.5	4,900,000
13	Common loon	9.11	1966-2000	Increase	+2.9	>250,000
14	Brown pelican	8.16	1980-2000	Increase	+2.1	93,000



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*Mean annual percent change in population

Partnership

- FAA Technical Center-Airport Safety
- ERAU-Prescott Campus
 - Established in October of 1999
 - Continue redesign and refinement through 2003
- Benefit to each partner



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FAA's National Wildlife Aircraft Strike Database

(<http://wildlife-mitigation.tc.faa.gov>)

- On-Line Reporting
- On-Line Query Access



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FAA's National Wildlife Aircraft Strike Database (Home Page Access to On-Line Reporting)

Airport Technology R & D Branch

Airport Wildlife Hazard Mitigation Home Page

The National Wildlife Strike Database
is now available ON-LINE
Click Here for Access.

Register to Receive
Items of Interest, Coming Events
and Community News...
CLICK HERE

Guidelines for Submitting Birdstrike
Feather Remains for Identification [CERTALERT 03-03](#)

The purpose of this site is to provide users with information that will allow them to better understand and practice wildlife hazard mitigation at airports through wildlife control.



FAA Form 5200-7

Click To Update an
Existing Strike Report

Memorandum of Agreement between the Federal Aviation Administration, the U.S. Air Force, the U.S. Army, the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, and the U.S. Department of Agriculture to Address Aircraft-Wildlife Strikes. This Memorandum of Agreement (MOA) acknowledges each signatory agency's respective missions. Through this MOA, the agencies establish procedures necessary to coordinate their missions to more effectively address existing and future environmental conditions contributing to aircraft-wildlife strikes throughout the United States. These efforts are intended to minimize wildlife risks to aviation and human safety, while protecting the Nation's valuable environmental resources



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EMBRY-RIDDLE
Aeronautical University

FAA's National Wildlife Aircraft Strike Database (Form 5200-7 - Electronic)

BIRD/OTHER WILDLIFE STRIKE REPORT

Form Approved OMB NO. 2120-0045

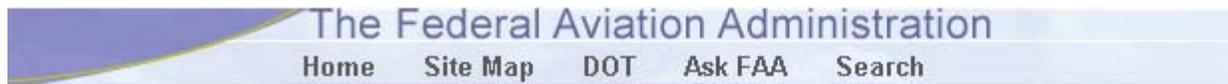
1. Name of Operator <input type="text"/>	2. Aircraft Make/Model <input type="text"/>	3. Engine Make/Model <input type="text"/>																								
4. Aircraft Registration <input type="text"/>	5. Date of Incident <input type="text"/> / <input type="text"/> / <input type="text"/> mm dd yyyy	6. Local Time of Incident <input type="checkbox"/> Dawn <input type="checkbox"/> Dusk <input type="text"/> Hr <input type="text"/> Min <input type="checkbox"/> Day <input type="checkbox"/> Night <input type="checkbox"/> AM <input type="checkbox"/> PM																								
6A. Flight Number <input type="text"/>	6B. Wildlife/Bird Remains: <input type="checkbox"/> Collected <input type="checkbox"/> Sent to Smithsonian																									
7. Airport Name <input type="text"/>	8. Runway Used <input type="text"/>	9. Location if En Route <i>(Nearest Town/Reference & State)</i> <input type="text"/>																								
10. Height (AGL) <input type="text"/> ft	11. Speed (IAS) <input type="text"/> kts																									
12. Phase of Flight <input type="checkbox"/> A. Parked <input type="checkbox"/> B. Taxi <input type="checkbox"/> C. Take-off Run	13. Part(s) of Aircraft Struck or Damaged <table border="0"> <tr> <td></td> <td>Struck</td> <td>Damaged</td> </tr> <tr> <td>A. Radome</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>B. Windshield</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>C. Nose</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Struck	Damaged	A. Radome	<input type="checkbox"/>	<input type="checkbox"/>	B. Windshield	<input type="checkbox"/>	<input type="checkbox"/>	C. Nose	<input type="checkbox"/>	<input type="checkbox"/>	13. (Con't) <table border="0"> <tr> <td></td> <td>Struck</td> <td>Damaged</td> </tr> <tr> <td>H. Propeller</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>I. Wing/Rotor</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>J. Fuselage</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Struck	Damaged	H. Propeller	<input type="checkbox"/>	<input type="checkbox"/>	I. Wing/Rotor	<input type="checkbox"/>	<input type="checkbox"/>	J. Fuselage	<input type="checkbox"/>	<input type="checkbox"/>
	Struck	Damaged																								
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FAA's National Wildlife Aircraft Strike Database (On-Line Database Access)



Airport Technology R & D Branch

Airport Wildlife Hazard Mitigation Home Page

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Memorandum of Agreement between the Federal Aviation Administration, the U.S. Air Force, the U.S. Army, the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, and the U.S. Department of Agriculture to Address



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FAA's National Wildlife Aircraft Strike Database (On-Line Database Access – General Public)

Access to the FAA National Wildlife Strike Database

- [Area P - Public Access](#) 

Authorized Personnel Only
(All require Usernames and Passwords)

- [Area 51](#)
 - [Authorized FAA Personnel](#)
 - [Authorized Airport Personnel](#)
- [Authorized Operator \(Airline\) Personnel](#)
- [Authorized Wildlife Services Personnel](#)
- [Authorized Engine Manufacturer Personnel](#)
- [Authorized Airframe Manufacturer Personnel](#)

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FAA's National Wildlife Aircraft Strike Database (Public Access)

National Wildlife Strike Database ON-LINE

Please select one of the following:

- [Strike Summary by Wildlife Species and State](#)
- [Strike Summary by Wildlife Species and State by Year](#)



Every effort has been made to obtain satisfactory viewing results with the latest versions of Netscape and MS Internet Explorer. In the unlikely event you obtain less than satisfactory viewing results, please advise the Webmaster (below) as to what screen you were viewing and the browser/version you were using. In addition, any suggestions and/or comments are solicited and may be sent to [A. R. Newman, Webmaster](#).

Return To
[FAA Wildlife Hazard Mitigation Home Page](#)
[ERAU \(Mirror\) Wildlife Hazard Mitigation Home Page](#)

Developed for the FAA by
Embry-Riddle Aeronautical University



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FAA's National Wildlife Aircraft Strike Database (Public Access Query Select)

FAA
National Wildlife Strike Database Query Select
(Summary of Strikes by Species and State by Year)

Latest Report: 07-31-2003
Earliest Report: 01-03-1990
Last Update: 10-16-2003

Reports in Database: 52,759

Select One of Each of the Following:

Species 

State

Don't show instructions in future sessions.

If you haven't done so already, please take a few moments and complete an [Evaluation](#) of this site. If this is your first usage, you'll be able to return here after your queries are completed.



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FAA's National Wildlife Aircraft Strike Database (Public Access Query Results)

**FAA
National Wildlife Strike Database
Query Results**

Species: CANADA GOOSE
State: ALL
Years: ALL

Year	Species	State	Strikes	Total US Strikes
1990	CANADA GOOSE	ALL	28	1990
1991	CANADA GOOSE	ALL	29	2410
1992	CANADA GOOSE	ALL	31	2536
1993	CANADA GOOSE	ALL	40	2581
1994	CANADA GOOSE	ALL	53	2684
1995	CANADA GOOSE	ALL	51	2775
1996	CANADA GOOSE	ALL	49	3027
1997	CANADA GOOSE	ALL	45	3627
1998	CANADA GOOSE	ALL	78	4036
1999	CANADA GOOSE	ALL	73	5241



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FAA's National Wildlife Aircraft Strike Database (FAA Personnel Access)

Access to the FAA National Wildlife Strike Database

- [Area P - Public Access](#)

Authorized Personnel Only
(All require Usernames and Passwords)

- [Area 51](#)
 - [Authorized FAA Personnel](#) ←
 - [Authorized Airport Personnel](#)
- [Authorized Operator \(Airline\) Personnel](#)
- [Authorized Wildlife Services Personnel](#)
- [Authorized Engine Manufacturer Personnel](#)
- [Authorized Airframe Manufacturer Personnel](#)

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FAA's National Wildlife Aircraft Strike Database (FAA Personnel Query Select)

FAA
National Wildlife Strike Database Query Select
(Authorized FAA Personnel)

Reports in Database: 52,759

Select One (or More) Criteria of Interest:

Date(s)
From: Month Day Year
To: Month Day Year

Airport
or
Airport Code (US Airport Codes are preceded with a "K" or "P".)
State
or
FAA Region ← **Selections (as desired)**

Operator

Aircraft

Species

Word/Phrase in Remarks

Viewing Options:

Hits Ordered By



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FAA's National Wildlife Aircraft Strike Database (FAA Personnel Query Summary Results)

FAA National Wildlife Strike Database Query Results

Selected Search Criteria:

From: JAN 1 2002 To: DEC 31 2002

Airport: CHICAGO OHARE INTL Operator: UNITED AIRLINES Aircraft: All

State: All FAA Region: All

Species: All

Word/Phrase in Remarks: None

Hits Ordered By: Date Ordering: Ascending

Max Hits: 500

Number of Reports Found: 68

Number of Reports Returned: 68

Click Incident Date to View Individual Strike Report (**Bolded Date** Indicates Reported Damage on Form 5200-7)

Click For Info to Download Individual Strike Reports into EXCEL for a more detailed Analysis.

Incident Date	Airport	State	FAA Region	Operator	Aircraft	Damage Code*	Species**
01-14-2002	CHICAGO OHARE INTL	IL	AGL	UNITED AIRLINES	B-757-200	N	UNKNOWN BIRD
01-17-2002	CHICAGO OHARE INTL	IL	AGL	UNITED AIRLINES	B-767-300	N	UNKNOWN BIRD



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FAA's National Wildlife Aircraft Strike Database (Review Individual Report)

FAA NATIONAL WILDLIFE STRIKE DATABASE INDIVIDUAL STRIKE REPORT						
Incident Date: 01-14-2002	Operator ID: UAL	Operator: UNITED AIRLINES		ACCESS Ref Nr: 40324		
Aircraft Type: B-757-200	A/C Make: 148	A/C Model: 26	Eng Make: 34	Eng Model: 31		
Registration: N566UA	Time of Day:	Time:	Runway: 22R	Damage Code*: N		
Flight Nr: 321	Height:	Speed:	Location Enroute:			
Airport Code: KORD	Airport: CHICAGO OHARE INTL		State: IL	FAA Region: AGL		
	Struck		Damaged			
	Radome	<input type="checkbox"/>	Radome	<input type="checkbox"/>	Propellor	<input type="checkbox"/>
	Windshield	<input type="checkbox"/>	Windshield	<input type="checkbox"/>	Wing/Rotor	<input type="checkbox"/>
	Nose	<input checked="" type="checkbox"/>	Nose	<input type="checkbox"/>	Fuselage	<input type="checkbox"/>
	Engine #1	<input type="checkbox"/>	Engine #1	<input type="checkbox"/>	Ldg Gear	<input type="checkbox"/>
	Engine #2	<input type="checkbox"/>	Engine #2	<input type="checkbox"/>	Tail	<input type="checkbox"/>
	Engine #3	<input type="checkbox"/>	Engine #3	<input type="checkbox"/>	Lights	<input type="checkbox"/>
	Engine #4	<input type="checkbox"/>	Engine #4	<input type="checkbox"/>	Other	<input type="checkbox"/>
	Birds Ingested	<input type="checkbox"/>			Other (Specify):	



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FAA's National Wildlife Aircraft Strike Database (Download Query Results for Add't Analysis)

<u>11-26-2002</u>	<u>CHICAGO OHARE INTL</u>	<u>IL</u>	<u>AGL</u>	<u>UNITED AIRLINES</u>	<u>A-320</u>	<u>M</u>	<u>UNKNOWN BIRD</u>
-------------------	---------------------------	-----------	------------	------------------------	--------------	----------	---------------------

* **Damage Codes (Civilian)** - N (None), M (Minor), M? (Damage, but extent unknown), S (Substantial) and D (Destroyed).
Damage Codes (Military) - Class A (Over \$1,000,000), Class B (\$200,000 - 1,000,000), Class C (\$20,000 - \$200,000).
See [Memorandum of Agreement \(Glossary\)](#) for exact definitions of damage codes.

** **Species** - For additional information on various species, please see [The North American Breeding Bird Survey Results and Analysis, 1966 - 2002](#).

[Download Data File](#) which contains all of the above Strike Reports suitable for importing into EXCEL (or other spreadsheet program). File format is tab-delimited with field names being the first record.

Return To
[Wildlife Strike Database Query Select](#)

Prepared for the FAA by
Embry-Riddle Aeronautical University
Prescott, AZ
Revised: ARN, September 29, 2003



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FAA's National Wildlife Aircraft Strike Database (Download Query Results for Add't Analysis)

<http://wildlife.pr.erau.edu/database/levelonesummary39.xls> [Read-Only]

	A	B	C	D	E	F	G	H	I	J
1	Find Nr	Operator ID	Operator	A/C Type	AMA	AMO	EMA	EMO	Registratio	Flt Nr
2	40324	UAL	UNITED AIRLINES	B-757-200	148	26	34	31	N566UA	
3	40341	UAL	UNITED AIRLINES	B-767-300	148	98	34	46	N666UA	
4	40411	UAL	UNITED AIRLINES	B-767-300	148	98	34	46	N654UA	
5	40725	UAL	UNITED AIRLINES	A-320	04A		3	23	1	N405UA
6	40808	UAL	UNITED AIRLINES	A-319	04A		6	23	1	N835UA
7	40995	UAL	UNITED AIRLINES	B-737-500	148	33	10	1	N946UA	
8	41021	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N316UA	18
9	41141	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N352UA	
10	41196	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N337UA	18
11	41631	UAL	UNITED AIRLINES	A-319	04A		6	23	1	N815UA
12	41658	UAL	UNITED AIRLINES	A-319	04A		6	23	1	N812UA
13	41693	UAL	UNITED AIRLINES	B-777-200	148	40	34	46	N220UA	
14	41830	UAL	UNITED AIRLINES	A-320	04A		3	23	1	N470UA
15	41841	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N310UA	18
16	41889	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N308UA	
17	41913	UAL	UNITED AIRLINES	A-319	04A		6	23	1	N821UA
18	41987	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N203UA	
19	42059	UAL	UNITED AIRLINES	B-767-300	148	98	34	46	N664UA	
20	42097	UAL	UNITED AIRLINES	A-319	04A		6	23	1	N831UA
21	42108	UAL	UNITED AIRLINES	A-320	04A		3	23	1	N466UA
22	42605	UAL	UNITED AIRLINES	A-320	04A		3	23	1	N468UA
23	42687	UAL	UNITED AIRLINES	B-737-300	148	24	10	1	N356UA	
24	42814	UAL	UNITED AIRLINES	B-747-400	148	34	34	46	N109UA	



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FAA's National Wildlife Aircraft Strike Database (Other Users Database Access)

(Airport, Airline, Wildlife Services, Engine & Airframe Personnel)

Access to the FAA National Wildlife Strike Database

- [Area P - Public Access](#)

Authorized Personnel Only
(All require Usernames and Passwords)

- [Area 51](#)
 - [Authorized FAA Personnel](#)
 - [Authorized Airport Personnel](#) ←
 - [Authorized Operator \(Airline\) Personnel](#)
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FAA's National Wildlife Aircraft Strike Database (Other Users Database Access)

(Airport, Airline, Wildlife Services, Engine & Airframe Personnel)

National Wildlife Strike Database ON-LINE

If you already have a password, click the appropriate entrance below:

- [Authorized Airport Personnel](#) - Password Required ←
- [Authorized Operator \(Airline\) Personnel](#) - Password Required
- [Authorized Wildlife Services Personnel](#) - Password Required (See below)
- [Authorized Engine Manufacturer Personnel](#) - Password Required
- [Authorized Airframe Manufacturer Personnel](#) - Password Required

To be assigned a password, please contact Mr. Ed Cleary (202) 267-3389 or by email at ed.cleary@faa.gov. If by email, please include your organization, title, and telephone number. Also refer to [CERTALERT 02-06](#) for additional information.

Wildlife Services Personnel (State Directors) have pre-assigned passwords. These personnel should contact Ms. Sandra Wright (419) 621-9440 or by email at sandra.e.wright@usda.gov.



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FAA's National Wildlife Aircraft Strike Database (Airport Personnel Access)

FAA
National Wildlife Strike Database Login
(Authorized Airport Personnel)

Select **Only One** of the Below and Enter the Appropriate Password:

<p>Airport</p> <div style="border: 1px solid black; padding: 2px; width: 100%;">CHICAGO OHARE INTL</div>	OR	<p>4 Ltr Airport Code</p> <div style="border: 1px solid black; padding: 2px; width: 100%;">Select</div> <p style="font-size: small;">(US Airport Codes are preceded with either a "K" or "P".)</p>
---	-----------	---

Password

XXXXXXXXXX

NEW Check if you wish Airport and Password remembered.

Note: If an Airport is not included in the pulldown list, there were no reported strikes for that Airport.

If you haven't done so already, please take a few moments and complete an [Evaluation](#) of this site. If this is your first usage, you'll be able to return here after your queries are completed.



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FAA's National Wildlife Aircraft Strike Database (Airport Personnel Query Summary Results)

FAA National Wildlife Strike Database Query Results

Selected Search Criteria:

Airport: CHICAGO OHARE INTL

From: JAN 1 2002 **To:** DEC 31 2002

Aircraft: All

Hits Ordered By: Date **Ordering:** Ascending

Number of Reports Returned: 150

[Click Incident Date to View Individual Strike Report.](#)

[Click For Info to Download Individual Strike Reports into EXCEL for a more detailed Analysis.](#)

Incident Date	Airport	Aircraft	R'way	Damage Code*	Species**
01-14-2002	CHICAGO OHARE INTL (KORD)	B-757-200	22R	N	UNKNOWN BIRD
01-17-2002	CHICAGO OHARE INTL (KORD)	B-767-300		N	UNKNOWN BIRD
01-29-2002	CHICAGO OHARE INTL (KORD)	B-767-300	9R	N	UNKNOWN BIRD



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FAA's National Wildlife Aircraft Strike Database (Other Users Database Access)

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Similar to Airport Personnel Access

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Click
for On-Line

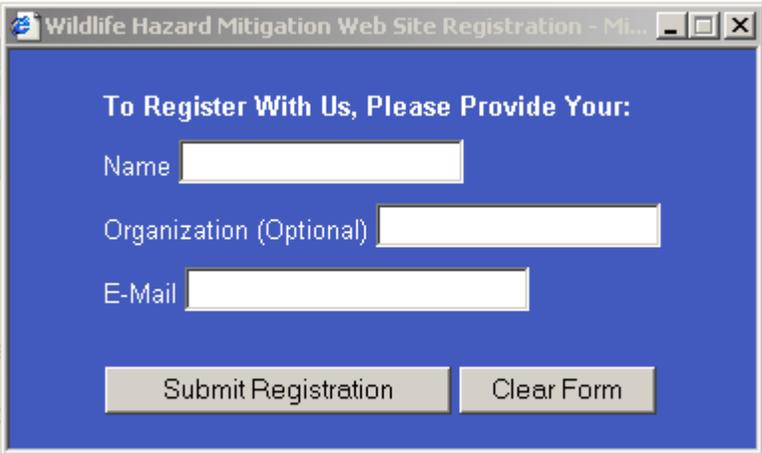


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FAA's National Wildlife Aircraft Strike Database (On-Line Community Registration)

Wildlife Hazard Mitigation Home Page



The screenshot shows a web browser window titled "Wildlife Hazard Mitigation Web Site Registration - Mi...". The page has a blue background and contains the following text and form elements:

To Register With Us, Please Provide Your:

Name

Organization (Optional)

E-Mail

Submit Registration Clear Form

Below the form, there is a red starburst graphic with the text "Click for On-Line" and a small text block that reads: "the U.S. Department of Agric Aircraft-Wildlife Strikes. This Agreement (MOA) acknowledges".

Receives email notification of events and items of interest to our community.



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FAA's National Wildlife Aircraft Strike Database

(Current On-Line Community Registration)

"Wildlife" Website Registration Log		
Name	Organization	Email
Paul Jones	FAA	paul.jones@faa.gov
Ed Cleary	FAA	ed.cleary@faa.gov
Michel Hovan	AAR410	michel.hovan@faa.gov
Diane Winterboer	USDA-Wildlife Services	Diane.E.Winterboer@aphis.usda.gov
Nedra Baum	FedEx Express	nabaum@fedex.com
Sandy Wright	USDA,WS	sandra.e.wright@aphis.usda.gov
Captain Robert Neider	American Eagle	Robert.Neider@aa.com
Kevin Daugherty	Roanoke Regional Airport	kevind@roanokeairport.com
Esteban Godinez	Panama - ICAO, Bird Hazard	panmibis@hotmail.com
Pat Carr		pjcarr@avturf.com
Steve Ferguson	Westchester County Airport	stf2@westchestergov.com
Rhondon McClellan	Burbank Airport	rmcclellan@bur.org
Total Registration - 102		



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FAA's National Wildlife Aircraft Strike Database (Welcome Graphic)



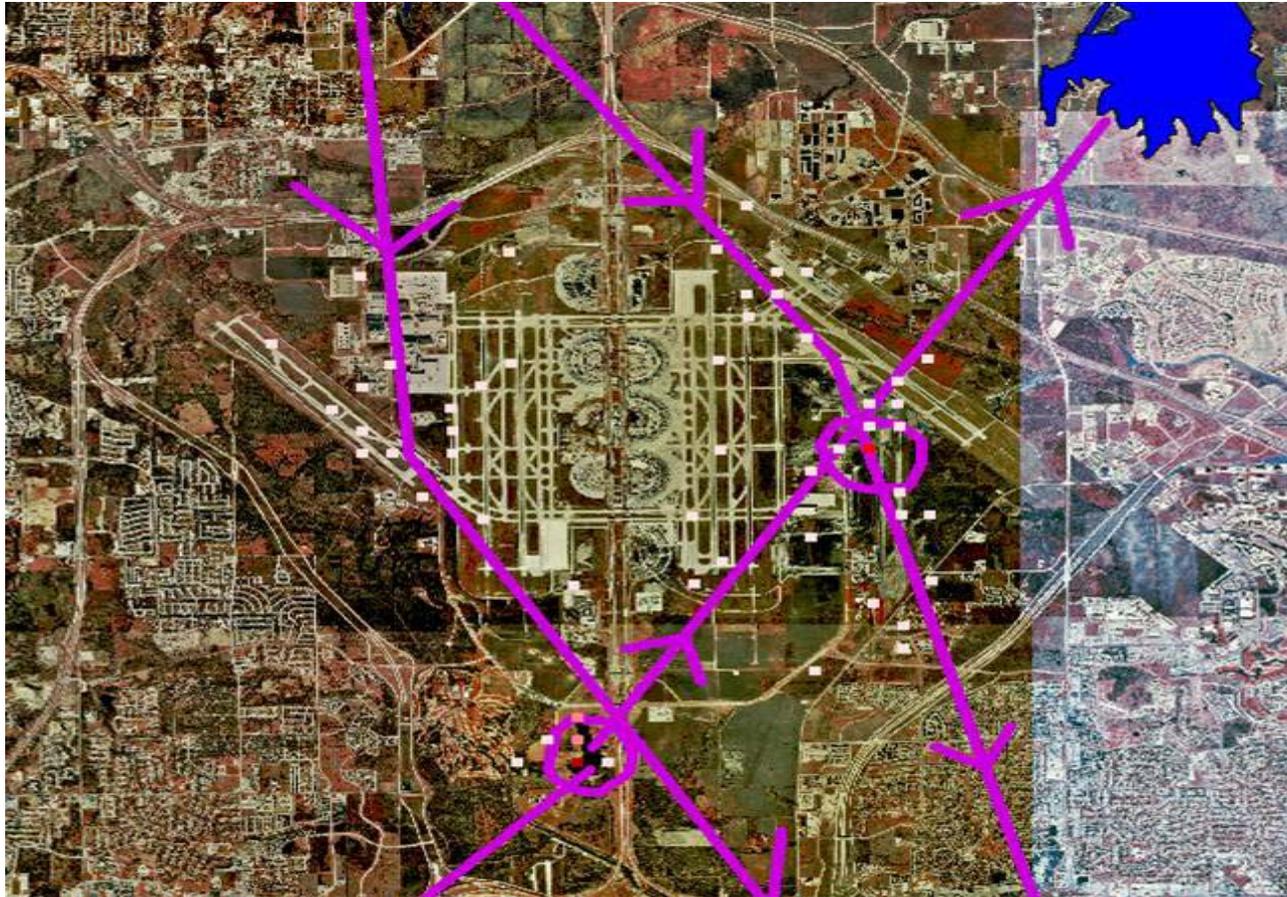
5,000 On-Line Queries Processed – July 22, 2002 thru Oct 27, 2003



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Near Future Task:
Representation of Bird Strike Queries onto Existing Airport GIS maps



DFW-WILD-GIS Showing Strike Records and Egret Daily Routes

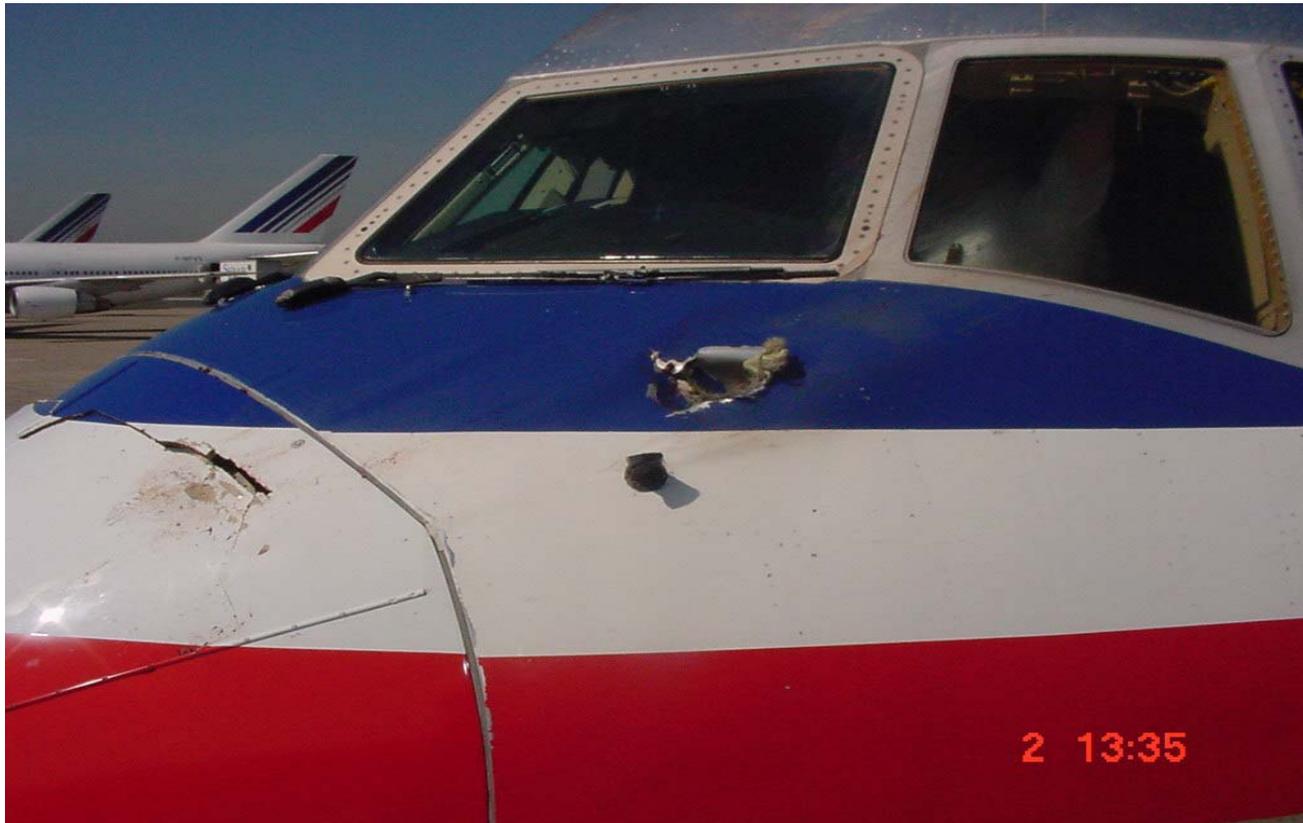


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Future Needed Task:

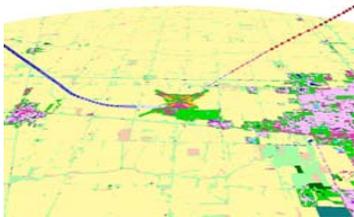
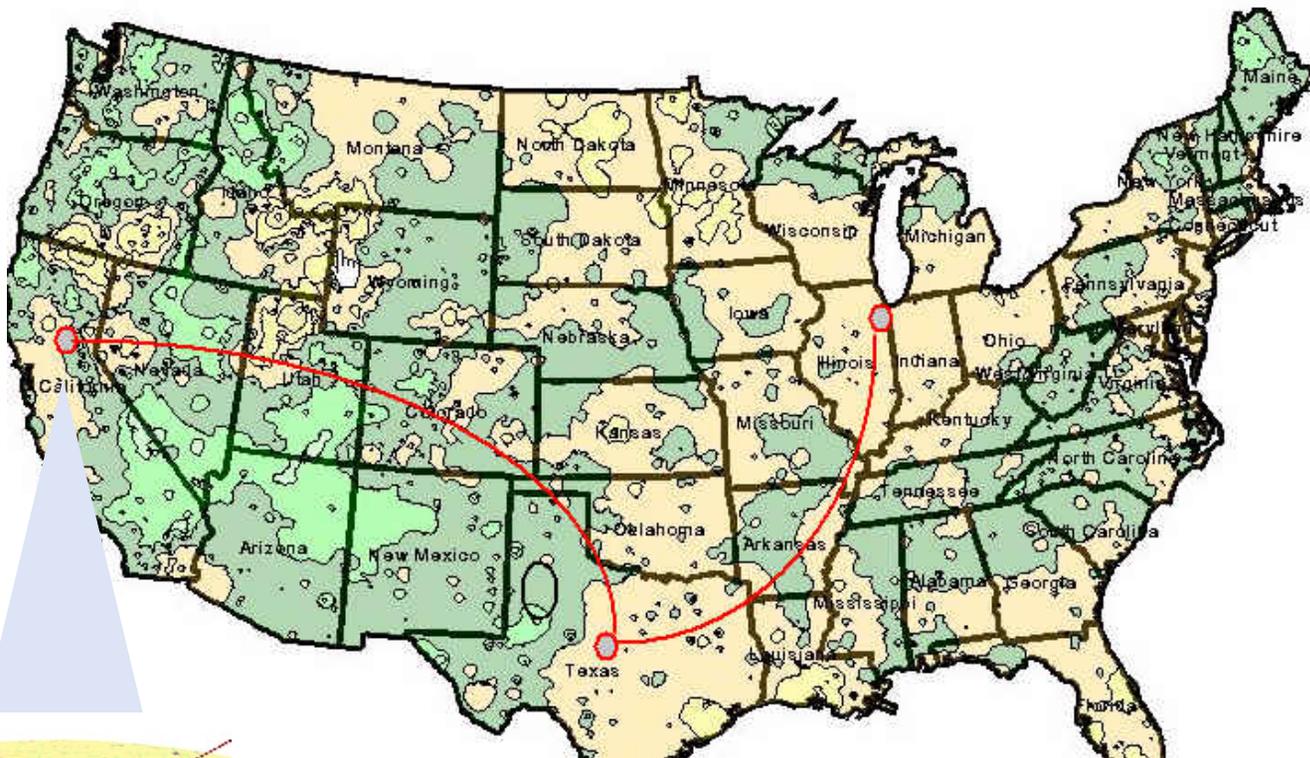
**Detailed mapping of Structural Damages to Struck Aircraft
and Recording into the FAA Wildlife Strike Database**



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Information Dissemination



Specific Airport Risk



- **Information over the Internet**
- **Accessible by Airlines/others (like weather information)**

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