Selling 25 Underutilized Aircraft May Yield Up to \$8.1 Million and Save \$1.5 Million Annually

A presentation to the Joint Legislative Program Evaluation Oversight Committee

April 29, 2010

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Evaluation Team

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Overview

- Eight aviation programs operated 72 aircraft at a cost of \$10.8 million in Fiscal Year 2008-09
- Most aircraft were underutilized
- Weak management and decentralized operations contributed to increased costs and inefficiencies

Overview: Recommendations

 Establish an Aviation Management Authority to provide management oversight to state aviation programs

 Elimination of 25 aircraft may yield up to \$8.1 million and save \$1.5 million annually

Background



Research Questions

- What aircraft are owned, controlled, or operated by a state program?
- Is the state's aircraft fleet sized, managed, and operated efficiently?
- Are there alternatives that could increase the efficiency and cost savings of the state's aircraft fleet?

Data Sources

- Agency records including aircraft costs and flight data, policies and procedures, and planning documents
- Interviews with 8 aviation programs
- 16 site visits
- Interviews with 11 other states
- State and federal legislation

72 Aircraft



8 Programs Operate Aircraft

Area Health Education Centers

Department of Commerce

Department of Transportation

State Bureau of Investigation

State Highway Patrol

Wildlife Resources Commission

Division of Marine Fisheries

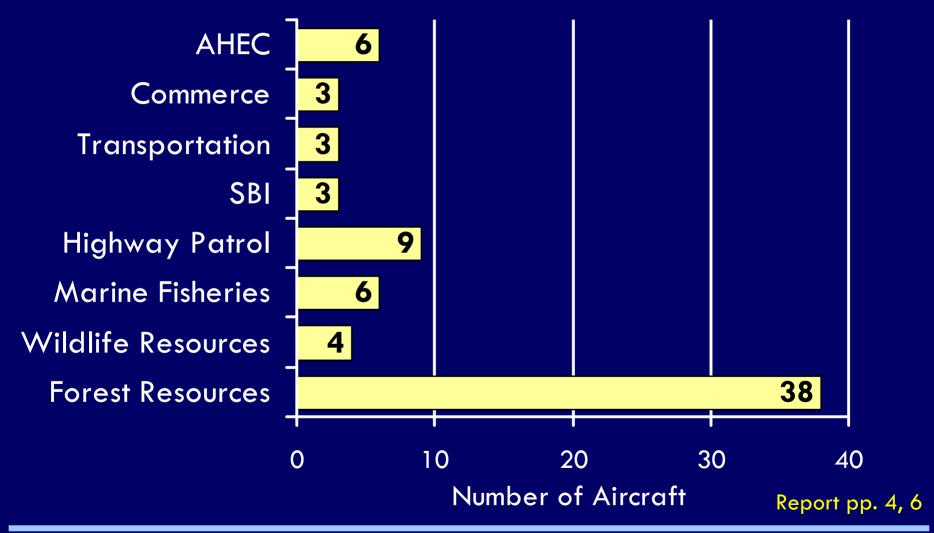
Division of Forest Resources

Passenger Transport

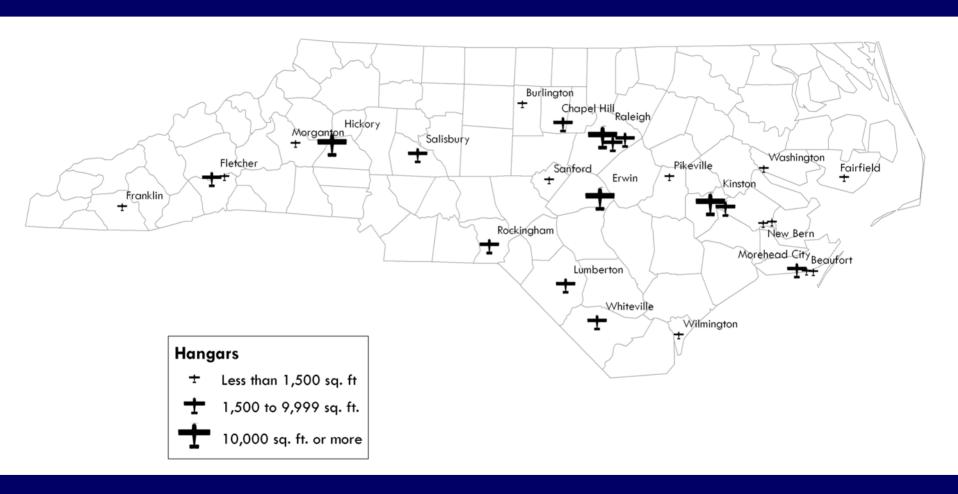
Law Enforcement

Resource Protection

Aircraft by Program



27 Hangar Leases



Aviation Programs Cost \$10.8 Million

<u>Program</u>	Cost FY 08-09
Area Health Education Centers	\$1,465,332
Dept. of Commerce	\$1,570,084
Dept of Transportation	\$1,340,245
State Bureau of Investigation	\$449,550
State Highway Patrol	\$2,160,271
Wildlife Resources Commission	\$138,529
Div. of Marine Fisheries	\$216,127
Div. of Forest Resources	\$3,462,412

Findings

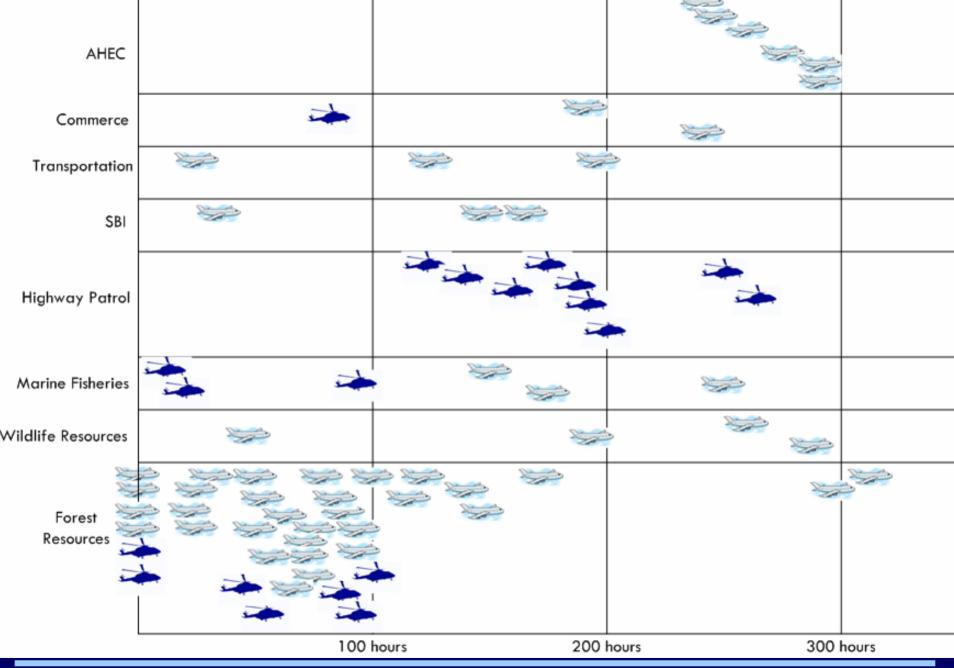


Finding 1. 79% of State Aircraft Flew Fewer than 200 Hours per Year

Utilization of Aircraft

- One indicator of efficiency is flight hours per year
- Industry sources set the efficient use threshold between 200-400 hours per year
- If aircraft are flown less than 200 hours per year, alternatives should be considered

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Underutilized Aircraft Cost More to Operate per Flight Hour



- Dept. of Commerce
- Total operating cost = \$434,762
- Flight hours = 146.7

\$2,964 per hour

- Dept. of Transportation
- Total operating cost = \$388,017
- Flight hours = 27.5

\$14,109 per hour

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Five Aircraft that Can Not Fly Cost \$38,449

- 5 salvage aircraft
 - -4 Division of Forest Resources



-1 Division of Marine Fisheries







Three Aircraft that Did Not Fly Cost \$396,304

- 3 additional Division of Forest Resources aircraft
 - -2 fire patrol
 - -1 fire suppression



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Finding 2. 25 Aircraft and 5 Facilities Can Be Eliminated

Aircraft Elimination Analysis

- Three phases
 - Phase One: Annual Flight Hours
 - Phase Two: Daily Demand
 - Phase Three: Age of Remaining Aircraft
- Feasibility review
- Cost comparison

Aircraft Elimination — Phase One

- How much were aircraft flown?
- Examined annual flight hours by purpose
 - Passenger transport aircraft were considered only in this phase
 - Non-passenger transport aircraft were evaluated in phases two and three

Aircraft Elimination — Phase Two

- How many aircraft were needed to meet demand?
- Examined patterns of daily use and determined the number of aircraft needed to meet daily demand

Aircraft Elimination — Phase Three

- Are back-up aircraft needed to meet demand because of reduced availability due to age?
- Examined age and how often aircraft were flown
 - -As aircraft age, availability goes down

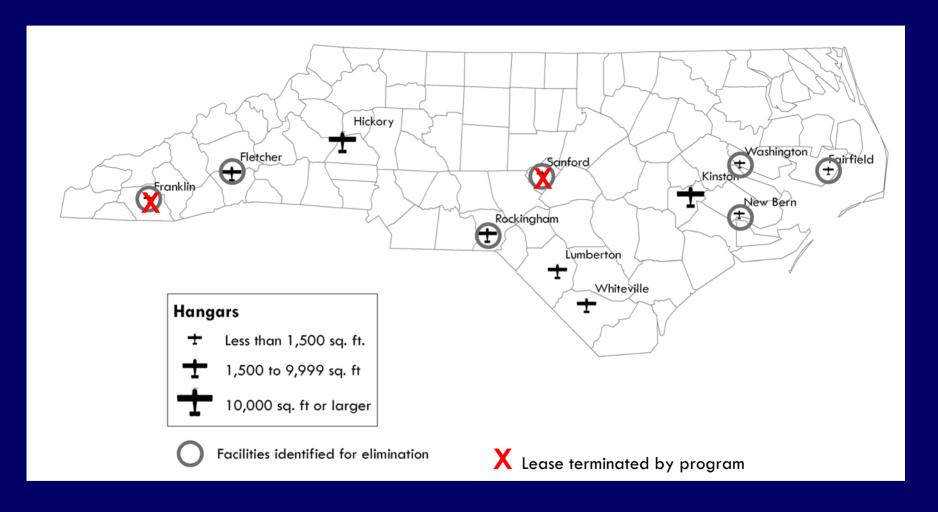
25 Aircraft Identified for Elimination

<u>Aircraft to be</u> <u>Eliminated</u>
0
0
1
1
0
0
3
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Comparing the Annual Cost of Owning vs. Contracting Fire Patrol Aircraft



Eliminate 5 Hangars



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Forest Resources is Paying too Much for the Hickory Facility



Finding 3. Weaknesses in Aviation Program Fleet Management Practices Create Inefficient Operations

Components of Good Management

- Complying with federal and state regulations
- Maintaining, integrating, and analyzing flight and maintenance information
- Tracking and analyzing costs by aircraft and for the fleet
- Determining optimal fleet size

Finding 4. Decentralized Operations of State Aircraft Result in Increased Costs and Fractured Management

Decentralized Operations

- Aviation staffing, budgeting, policies, and safety are compromised by decentralization
- Passenger transport aircraft are not used efficiently
- Other states have consolidated aviation services

Recommendations



Recommendation 1. Establish the Aviation Management Authority

Aviation Management Authority

- Housed in the Department of Transportation
- Responsibilities
 - Operating consolidated passenger transport and photogrammetry services
 - Providing management oversight for all other aviation programs
 - Overseeing maintenance for all state aircraft
- Costs covered by transfer of assets and 3% management fee

Aviation Management Authority

Year One

- -Consolidate passenger transport services
- Oversee implementation of Division of Forest Resources safety recommendations
- Oversee elimination of aircraft (Recommendation 2)
- Develop policies and procedures for aviation programs

Aviation Management Authority

Year Two

- Oversee management of all state aviation resources
- Oversee maintenance operations

Recommendation 2. Eliminate 25 Aircraft and 5 Facilities

Eliminate 25 Aircraft and 5 Facilities

Estimated proceeds from sale of aircraft up to \$8.1 million

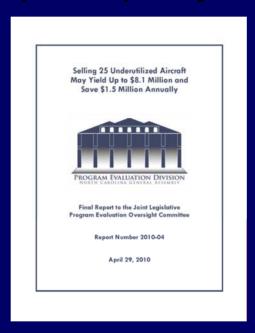
Estimated recurring savings – aircraft operations \$1.5 million

Estimated recurring savings – facilities \$26,060

Summary

- Most of the state's 72 aircraft were underutilized
- Decentralized operations contributed to weak management and inefficiencies
- Establishing an Aviation Management Authority to provide management oversight to state aviation programs
- Elimination of aircraft, personnel, and facilities would yield up to \$8.1 million in proceeds and \$1.5 million recurring funds

Report available online at www.ncleg.net/PED/Reports/reports.html



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