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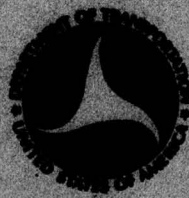


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INTRODUCTION

General aviation, which encompasses all civil aviation except that classified as air carrier, is a subject too broad for comprehensive coverage within the scope of this bibliography. Arbitrary limits were therefore set as follows:

- a. Material cited is limited to that held by the 10A Services Branch of the Department of Transportation Library.
- b. Period covered is approximately 1970-1976. Exceptions are made for items of historical interest.
- c. Citations are indicative of types of material available rather than representative of the depth of the collection.

This, then, is not a comprehensive treatment of general aviation but a selected, partially annotated listing of the DOT branch library's holdings of periodical articles, reports, books and pamphlets on the subject. Arrangement is by subject, with author and corporate source indexes, and listings of general aviation-oriented journals and associations. Sources used were in-house catalogs and in-house indexes of the 10A Services Branch.

The categories into which general aviation has been subdivided* for the purpose of this bibliography are, in the order in which they appear in the APPLICATIONS section:

AIR TAXI: use of an aircraft by the holders of an Air Taxi Operating Certificate which operation is authorized by that certificate.

COMMUTER: use of an aircraft by those holders of Air Taxi Operating Certificates who perform pursuant to published schedules at least five round trips per week between two or more points, or carry mail.

BUSINESS: use of an aircraft, not for compensation or hire, by an individual for the purpose of transportation required by a business in which he is engaged.

EXECUTIVE: use of an aircraft by a corporation, company or other organization for the purpose of transporting its employees and/or property not for compensation or hire and employing professional pilots for the operation of the aircraft.

* Definitions are adapted from FAA-AVP-76-9, Item 22.

INDUSTRIAL/SPECIAL: use of an aircraft in specialized work not covered by above categories; included are aerial applications (agriculture, forestry, etc.), fire fighting, law enforcement, medical services, photography, pipeline patrol, surveying, governmental usage, etc.

INSTRUCTIONAL: use of an aircraft for the purposes of formal instruction with the flight instructor aboard, or when the maneuvers on the particular flight(s) are specified by the flight instructor.

PERSONAL: use of an aircraft for purposes not associated with business or profession, and not for hire. This includes pleasure flying, sport flying, and for maintenance of pilot proficiency.

AVAILABILITY OF PUBLICATIONS

The Department of Transportation Library, 10A Services Branch, has all of the publications referred to in this bibliography. The library's call number in the case of books (e.g., TL 545.A85) or accession number in the case of technical reports (e.g., IR 76-1573) follows the citation.

Individuals outside the Department of Transportation are urged to consult their own local libraries before requesting publications on loan from this library. Availability of documents is shown below the appropriate citation wherever possible. A listing of document sources appears after the last page of the bibliography.

The Department of Transportation Library does not have a capability to furnish copies of documents or articles cited.

Compiled by:
Anne B. La Foy

GENERAL AVIATION

TABLE OF CONTENTS

INTRODUCTION..... 1

I. GENERAL..... 1

 A. OVERVIEW..... 1

 B. HISTORY..... 6

 1. BIOGRAPHY..... 8

 2. WOMEN IN AERONAUTICS..... 9

 C. AIRCRAFT..... 11

 D. INDUSTRY..... 12

II. APPLICATIONS..... 14

 A. AIR TAXI/COMMUTER..... 14

 B. BUSINESS/EXECUTIVE..... 16

 C. INDUSTRIAL/SPECIAL..... 19

 D. INSTRUCTIONAL..... 21

 E. PERSONAL..... 22

III. EQUIPMENT AND TECHNOLOGY..... 24

 A. AIRCRAFT TECHNOLOGY..... 24

 B. AVIONICS..... 29

IV. AIRPORTS AND SERVICES..... 32

V. PILOTS AND PILOTING..... 34

 A. GENERAL..... 34

B. HANDBOOKS.....	37
C. MAINTENANCE.....	39
VI. SAFETY AND ACCIDENTS.....	40
A. SAFETY.....	40
B. ACCIDENTS.....	43
VII. ECONOMIC AND SOCIAL FACTORS.....	47
A. COSTS.....	47
B. ENVIRONMENT.....	51
C. GOVERNMENT.....	53
D. FORECASTS.....	55
E. STATISTICS.....	56
SOURCES FOR OBTAINING DOCUMENTS.....	60
ASSOCIATIONS.....	61
JOURNALS.....	63
INDEXES.....	65
INDIVIDUAL.....	65
CORPORATE SOURCE.....	70

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1. Aircraft Owners and Pilots Association. THE TRUTH ABOUT GENERAL AVIATION. Washington, 1968. 24 p. (TL 533.A7)
Policy statement of the Aircraft Owners and Pilots Association to promote better understanding by the public.
2. AMERICA'S FLYING BOOK. By the editors of Flying magazine. New York, Scribner's, 1972. xxvii, 365 p. (TL 544.A73)
From how to begin to learn to fly to what to look for in buying an airplane.
3. AVIATION FUNDAMENTALS. Rev. Denver, Colo., Jeppesen & Co., 1973. Various pagings. (TL 545.A85)
Basics of the science of flight, history of aviation, meteorology, communications, navigation, introduction to Federal Aviation Regulations and the Airman's Information Manual.
- Bain, Donald. THE CASE AGAINST PRIVATE AVIATION. New York, Cowles Book Co., 1969. 208 p. (TL 534.B15)
Author feels private aviation enjoys undue freedom of operation, highlights points of contention between government, airlines and private aviation, and proposes recommended corrective measures.
5. Brewer, George F. THE FUTURE OF GENERAL AVIATION IN EUROPE. Aeronautical Journal, v. 76(738), Jun. 1972: 352-357. Discussion: 357-361.
Defines general aviation, its role and place in economy and society of Europe, points up constraints which might inhibit growth, but forecasts unlimited potential.
6. FLYING ANNUAL AND PILOT'S BUYING GUIDE. New York, Ziff-Davis Publishing Company, 1965- (TL 544.F6)
Annual report on general aviation with varying special features.
7. GAMA LAUNCHES NATIONAL AVIATION EDUCATION PROGRAM. Airport Services Management, v. 15(6), Jun. 1974: 21-22.
Aviation Education Resources Centers established by General Aviation Manufacturers Association (GAMA) in 100 colleges and universities.

8. GENERAL AVIATION AND COMMUNITY DEVELOPMENT. Edited by Michael Z. Sincoff and Jarir S. Dajani. Norfolk, Va., Old Dominion University Research Foundation, 1975. xvii, 254 p. (TL 541.G36)
Report of National Aeronautics and Space Administration and the American Society for Engineering Education Summer Faculty Fellowship Program in Engineering Systems Design, NASA-Langley Research Center.
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10. GENERAL AVIATION IN '75: WE MUST BE DOING SOMETHING RIGHT. AOPA Pilot, v. 19(3), Mar. 1976: 37-39.
Narrative summary, with statistics of traffic, manufacturing, airmen, etc.
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"GAMA's goal is to provide a better understanding of general aviation... what it is... what it does... and an insight into the industry's very significant role in America's transportation system." - author.
12. Helms, J. Lynn. GENERAL AVIATION: THE OPPORTUNITY AND THE CHALLENGE. ICAO Bulletin, v. 30(9), Sep. 1975: 12-15.
New sociological, environmental and economic influences bring greatest opportunities and challenges of last 30 years.
13. JOINT DOT-NASA CIVIL AVIATION RESEARCH AND DEVELOPMENT POLICY STUDY. Washington, U.S. Dept. of Transportation/National Aeronautics and Space Administration, 1971. 2 v. (TL 533.J7A5)
v. 1 REPORT. DOT-TST-10-4, NASA SP-265.
v. 2 SUPPORTING PAPERS. DOT-TST-10-5, NASA SP-266.
"CARD" study was undertaken in response to a recommendation by the Senate Committee on Aeronautical and Space Sciences (90th Congress). It evolved as a comprehensive review of policies affecting civil aviation, of the problems confronting it and of the potential it possesses for future contributions to the nation. For general aviation subject area see especially pp. 3-32 to 3-41, v. 2.
Source: NTIS (PB-198 802; PB-198 803)

14. Little, Arthur D., Inc., Cambridge, Mass. INSTITUTIONAL FACTORS IN CIVIL AVIATION. Washington, U.S. Dept. of Transportation, 1971. 165 p. DOT-TST-10-1. NASA-CR-1807. (TL 533.J7L5)
Prepared for the Joint DOT-NASA Civil Aviation R&D Policy Study. (See also Item 13) "The objectives of the study are to identify institutional factors which are constraining the civil aviation R&D process by which new or improved systems and equipment are developed in response to civil aviation needs; to postulate options to remove or attenuate these constraints; and to discuss the advantages and disadvantages of choosing any given option in order to help guide national policy-makers." - author. For general aviation subject area see especially pp. 139-165.
Source: NTIS (PB-198 799)
15. Massachusetts Institute of Technology, Flight Transportation Laboratory, Cambridge, Mass. AIR SERVICE TO SMALL COMMUNITIES, DIRECTIONS FOR THE FUTURE. Joseph F. Vittek, Jr., ed. Feb. 1974. 84 p. NASA-CR-138 377 (IR 75-0155)
Final report of workshop sponsored jointly by U.S. Dept. of Transportation and U.S. National Aeronautics and Space Administration on the problems of providing air service to low and medium density points.
Source: NTIS (N74-23503)
16. Opinion Research Corporation, Princeton, N.J. GENERAL AVIATION AS SEEN BY THE PUBLIC. Prepared for General Aviation Manufacturers Association. Washington, Jul. 1973. 54 p. (IR 74-0981)
"Although they do not recognize it by that name, the American people overwhelmingly support General Aviation, as well as our total air transportation system. Relatively few people have negative attitudes toward any aspect of air transportation that our survey addressed, including aircraft noise and safety... The most popular means of providing financial support to our overall air transportation system appears to be a combination of federal taxes and fees paid by users." - author.
17. Optimum Computer Systems, Inc., Washington, D.C. A STUDY OF ATTRITION IN THE DOMESTIC GENERAL AVIATION FLEET. Final report. Washington, U.S. Federal Aviation Administration, Apr. 1976. 82 p. FAA-AVP-75-14. (IR 76-0615)
About 85% of the aircraft added to the domestic fleet since 1947 are still registered. About 2% of the fleet is de-registered each year but this rate is declining. About 10% of the registered fleet is inactive. About 7% of the fleet is in operation if conditions are generally flyable.
Source: NTIS (AD-A023 271)

18. Pugh, Francis L. A PRIVATE PILOT LOOKS AT GENERAL AVIATION. American Institute of Aeronautics and Astronautics, 4th Aircraft Design, Flight Test, and Operations Meeting, Los Angeles, Calif., Aug. 7-9, 1972. 9 p.
Examines feasibility of non-business family aviation applications - pleasure, training, travel - by presenting a three-year case history of a four-place airplane. Concludes that family flying is, at best, only marginally feasible.
Source: AIAA (Paper 72-812)
19. Sanborn Aviation Associates, Inc. GENERAL AVIATION'S PIVOTAL DECADE. Upper Saddle River, New Jersey, 1970. Various pagings. (TL 541.S27)
Six part report published in Air (Aircraft Technical Management Report) a monthly publication of Sanborn Aviation Assoc., Inc. Nov. 1969-Apr. 1970 (v.2(11-12) and v.3(1-4)). Called the "Sanborn report." Subject matter ranges from growth assumptions to forecasting techniques, outlook for business jet sales, utility value of private aircraft, impact of airport saturation on long term growth, strength of the personal flying segment, aviation education and marketing concepts.
20. U.S. Aviation Advisory Commission. GENERAL AVIATION. Washington, May 1972. 21 p. (IR 73-01393)
Government should recognize, through statement of national policy, the essentiality of general aviation and lend assistance toward fulfillment of its contribution to national transportation goals.
Source: NTIS (PB-216 400)
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Companion document to item 22; contains essential summary information in 3 sections: a. general aviation fleet, b. general aviation flying, and c. general aviation owners and users.
Source: NTIS (AD-A035 299)

22. _____ . GENERAL AVIATION: AIRCRAFT OWNER AND UTILIZATION CHARACTERISTICS. Washington, Nov. 1976. Various pagings. FAA-AVP-76-9. (IR 77-0145)
Analysis of distribution of general aviation fleet by type of aircraft, nine primary use categories, regional representation, type of ownership, age of aircraft, income of owner, avionics, hours flown, etc. (See also item 21)
Source: NTIS (AD-A035 144)
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Seven kinds of general aviation flying are analyzed, weighted on basis of hours and miles flown. Study estimates that there were 2.5 persons on average general aviation flight during period covered, or between one and two others in addition to the pilot.
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24. _____ . RELATIONSHIPS BETWEEN GENERAL AVIATION AIRCRAFT AND POPULATION. By A. D'Arcy Harvey. Washington, 1972. iii, 24 p. (TL 533.4.A5)
Positive relationship exists between population and general aviation aircraft ownership. Understanding this should prove helpful in planning future airport and airway requirements.
25. Warford, Jeremy J. PUBLIC POLICY TOWARD GENERAL AVIATION. Washington, Brookings Institution, 1971. xii, 193 p. (TL 533.1.W28)
Focuses attention on burden placed by general aviation on nation's airports and airways system and examines methods employed by public authorities to deal with the problem. Suggests methods of allocating to general aviation a fair share of airways operating costs.

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27. Dwiggin, Don. THEY FLEW THE BENDIX RACE; THE HISTORY OF THE COMPETITION FOR THE BENDIX TROPHY. Philadelphia, Lippincott, 1965. 198 p. (TL 540.5.D9)
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32. GOLDEN ANNIVERSARY OBSERVANCE OF MAN'S FIRST SUCCESSFUL POWERED FLIGHT. Proceedings at the exercises held at Wright Brothers National Memorial, December 14-17, 1953, in commemoration of the fiftieth anniversary of the first flight of an airplane made by Wilbur and Orville Wright. Washington, U.S. Govt. Printing Office, 1954. xvi, 27 p. (TL 540.W7G6)
U.S. Congress, House. Doc. 480. 83rd Congress, 2d Session. (See also Item 44)
33. Jablonski, Edward. ATLANTIC FEVER. New York, Macmillan, 1972. xxi, 325 p.
History of pioneer Atlantic flying with table of years 1919-1939. (TL 531.J22)
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Company by company report.
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An all-woman transcontinental air race, better known
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Variables to consider before buying.
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Includes table of world distribution by aircraft types.
82. GENERAL AVIATION AIRCRAFT 1976. AOPA Pilot, v. 19(3), Mar. 1976: 59-66, ff.
Buying guide. Annual feature.
83. Gilbert, Gordon. THE NEW EXECUTIVE LIGHT-TWIN HELICOPTER. Business and Commercial Aviation, v. 38(1), Jan. 1976: 86, 88-92.
Specifications and prices.
84. Moll, Nigel. PRIVATE AIRCRAFT GUIDE. Flight International, v. 109(3491), Feb. 7, 1976: 282-300.
Specifications and prices.
85. 1976 AIRCRAFT. Business and Commercial Aviation, v. 38(4), Apr. 1976: 47-61, ff.
Specifications and prices. Annual feature.

86. 1976 HELICOPTERS. *Business and Commercial Aviation*, v. 38(4), Apr. 1976: 79-85.
Specifications and prices.
87. SHOPPERS GUIDE FOR TURBINE POWERED CORPORATE HELICOPTERS. *Professional Pilot*, v. 9(12), Dec. 1975: 38-39, ff.
88. U.S. BUSINESS, PERSONAL, UTILITY AIRCRAFT. *Aviation Week and Space Technology*, v. 104(11), Mar. 15, 1976: 119, 121.
Piston and turbine-powered; table of specifications.
89. THE WORLD'S CURRENT HELICOPTERS - 1976. *Interavia*, v. 31(1), Jan. 1976: 68-71.
Arranged by country of origin, includes specifications.

D. Industry.

90. Benyo, Richard. SALESMEN SPEAK ON OVERSEAS MARKETING. *Professional Pilot*, v. 8(2), Feb. 1974: 39-41.
Four representatives of major companies.
91. Christy, Joe. THE COIN OF LEADERSHIP. *Business and Commercial Aviation*, v. 36(6), Jun. 1975: 75-98.
Gates Learjet Corporation.
92. Combs, Harry B. WHAT'S AHEAD IN U.S. BIZ AV EXPORT? *Professional Pilot*, v. 9(2), Feb. 1975: 10-12.
93. EUROPEAN BUSINESS JET INDUSTRY VIEWS U.S. AS PRIMARY MARKET. *Aviation Week and Space Technology*, v. 98(22), May 28, 1973: 238, ff.
94. EUROPEAN HELICOPTER MANUFACTURERS-- PUSHING NEW PRODUCTS AND NEW TECHNOLOGIES. *Interavia*, v. 31(1), Jan. 1976: 27-31.
95. Francis, Devon Earl. MR. PIPER AND HIS CUBS. Ames, Iowa. Iowa State University Press, 1973. xi, 256 p. (TL 724.5 .P5F72)
96. Grangier, Marc. U.S. GENERAL AND BUSINESS AVIATION. *Interavia*, v. 31(3), Mar. 1976: 219-223.
Economic data on major manufacturers.

97. Hedrick, Frank E. PAGEANTRY OF FLIGHT; THE STORY OF BEECH AIRCRAFT CORP. New York, Newcomen Society in North America, 1967. 36 p. (TL 537.B4H3)
 Delivered at a national meeting of the Newcomen Society held at New York on Sep. 28, 1967, by Mr. Hedrick, then executive vice president of Beech Aircraft Corp. Mr. Hedrick's preface: "It is said - not by us at Beech Aircraft, but by those whose profession it is to know such things - that the history of general aviation is, in the main, the history of Beechcraft."
98. Humphreys, J. R. WHY SO FEW ALL NEW GENERAL AVIATION AIRCRAFT. Society of Experimental Test Pilots, Technical Review, v. 12(3), 1975: 43-50. (TL 501.S63)
 In spite of assurances of marketing departments that new designs are engineered, low-risk policies of management and other economic and financial factors inhibit industry's innovation.
99. Igely, Bliss. THE STORY OF CESSNA. Bliss Isely /s.l: s.n., 1957?/ 68 1. (TL 724.5.C3183)
100. Kent, David. THE U.S. MASS-PRODUCED AEROPLANE. Flight International, v. 107(3435), Jan. 9, 1975: 41-44.
 Assembly line methods of Cessna and Piper.
101. PRIVATE FLYING, BIG LIFT FOR AN INDUSTRY. U.S. News & World Report, v. 74(18), Apr. 30, 1973: 82-83.
 Personal flying spurs all segments of small plane business.
102. U. S. Federal Aviation Administration. THE GENERAL AVIATION INDUSTRY - AN OVERVIEW. Washington, Jul. 1975. 56 p. FAA-AVP-75-4. (IR 75-1093)
 Background information and statistics.
 Source: NTIS (AD-A015 871)
103. THE U.S. GENERAL AVIATION SCENE: BETWEEN TWO SLUMPS? Interavia, v. 30(2), Feb. 1975: 167-170.
104. Wild, Rolf H. THE ECONOMICS OF LIGHT AIRCRAFT PRODUCTION. Interavia, v. 31(3), Mar. 1976: 224-226.

APPLICATIONS

A. Air Taxi/Commuter.

105. Aarons, Richard N. THE SUBPART D CONTROVERSY. *Business & Commercial Aviation*, v. 37(4), Oct. 1975: 111-113, ff.
Air taxis, corporate aircraft, and "time sharing" controversy.
106. AIR TAXI CHARTER AND RENTAL DIRECTORY OF NORTH AMERICA. River Forest, Ill., Aircraft Charter and Rental Tariff Information Service, 1975. 102 p. (TL 538.A58)
107. CAN YOUR COMMUNITY SUPPORT COMMUTER SERVICE? *Airport Services Management*, v. 15(4), Apr. 1974: 51-53.
Questions to ask when considering commuter service.
108. CHECKLIST FOR MANAGING SAFE AIR TAXI OPERATIONS. *Airport Services Management*, v. 15(12), Dec. 1974: 38, 40-44.
109. Commuter Airline Association of America. THE COMMUTER AIRLINE INDUSTRY, ANNUAL REPORT. Washington, 1972- (TL 535.C67)
110. COMMUTER GROWTH RATE TOPS THAT OF BIG AIRLINES. *Air Transport World*, v. 13(4), Apr. 1976: 34-35.
Statistics of traffic volume, commuter airports, etc.
111. COMMUTERS CALL FOR BETTER AIRPORT FACILITIES. *Airport Services Management*, v. 15(5), May 1974: 46, 48-50.
Workshop sponsored by Commuter Air Carrier Conference of the National Air Taxi Conference contends commuter needs not considered in terminal planning.
112. Feldman, Joan M. THE COMMUTER AIRLINES: STEPCHILDREN NO LONGER. *Air Transport World*, v. 11(11), Nov. 1974: 36-38, ff.
113. _____. COMMUTERS MAKE THEIR MARK ON U.S. TRANSPORTATION. *Air Transport World*, v. 12(11), Nov. 1975: 24-25.
Includes traffic statistics, inventory of types of aircraft in use, etc.
114. Field, Hugh. THE AIR-TAXI BUSINESS. *Flight International*, v. 108(3464), Jul. 31, 1975: 157-161.
In Great Britain.

115. FLIGHT'S 1976 LOCAL AIR TRANSPORT YEARBOOK.
Appears annually as June issue of FLIGHT OPERATIONS magazine.
116. Grangier, Marc. THE THIRD-LEVEL SCENE: VARIETY IN OPERATIONS AND EQUIPMENT. *Interavia*, v. 30(5), May 1975: 500-506.
Size of U.S. and European commuter fleets.
117. HELICOPTERS FOR ATX AND CHARTER SERVICES. *Airport Services Management*, v. 15(7), Jul. 1974: 20-23.
"Ten years from now it will be a rare charter/air taxi operation that can offer everything its customers want without rotary wings as well as fixed." - author.
118. McCabe, Laurence E. THE AGE OF THE COMMUTER IS JUST BEGINNING. *Airport Services Management*, v. 16(2), Feb. 1975: 36-37.
Flow through subsidy concept and grants-in-aid promise help for local service carriers.
119. Miel, Charles R. WHY SMALL TOWNS NEED COMMUTER SERVICE. *Airport Services Management*, v. 15(7), July 1974: 34-35.
120. Munley, Frank. COMMUTER AIRLINE SAFETY: AN ANALYSIS OF ACCIDENT RECORDS AND THE ROLE OF FEDERAL REGULATIONS. Washington, Aviation Consumer Action Project, 1976. iv, 171 p. (TL 720.M87)
121. Pickett, James A. FLOW-THROUGH SUBSIDIES OPEN NEW OPPORTUNITIES FOR COMMUTER AIRLINES. *Airport Services Management*, v. 15(9), Oct. 1974: 28-31.
122. St. Mark, Janet. "FOUR WHEELS ARE GOOD, BUT FIXED WINGS ARE BETTER ...". *Airport Services Management*, v. 16(3), Mar. 1975: 29-32.
Growth of cargo services offered by commuter airlines.
123. _____ . SHORT-HAUL AIR TRANSPORTATION NEEDS. *Journal of Air Traffic Control*, v. 16(4), Jul.-Aug. 1974: 6-11.
Presentation by vice president of National Air Transportation Associations (NATA).
124. Swan, W. M. NETWORK STUDY OF SUBSIDIZED AIR SERVICE. *Journal of Aircraft*, v. 13(4), Apr. 1976: 227-230.
Use of small turboprop aircraft for providing subsidized service by commuter carriers or by regional airlines.

125. THIRD LEVEL AIRLINES. Flight International, v. 107(3440), Feb. 13, 1975: 245-271.
Country-by-country guide to commuter airlines.
126. THIRD-LEVEL AIRLINES. UPDATE. Flight International, v. 109 (3497), Mar. 20, 1976: 701-703.
Supplement to above.
127. U.S. Federal Aviation Administration. COMMUTER AIR CARRIER OPERATORS AS OF SEPTEMBER 1975. Washington, Sep. 1975. 53 p. (TL 538.A51)
Annual.
128. U.S. National Transportation Safety Board. AIR TAXI SAFETY STUDY. Washington, Sep. 1972. 73 p. NTSB-AAS-72-9. (TL 504.A3)
Historical review of the air taxi industry, accident data, government regulation, results of a field investigation of a select number of representative air taxi/commuter operations, pertinent findings of a public hearing, and recommendations for accident prevention. Source: NTIS (PB-213 617)
129. Waldo & Edwards, Inc. THE U.S. COMMUTER AIRLINE INDUSTRY: ITS CURRENT STATUS AND FUTURE OUTLOOK. Redondo Beach, Calif., 1970. 47 p.

NOTES: 1. For accidents involving air taxis, see item 353.
2. For commuter statistics see item 440.

B. Business/Executive

130. Alverson, Warren J. THE SHAKY CASE FOR THE COMPANY JET. Business Horizons, v. 15(2), Apr. 1972: 79-88.
Can cost 20 times more than public transportation; special benefits and advantages may be illusory.
131. BIBLIOGRAPHY: THE MANAGEMENT OF BUSINESS AIRCRAFT. Business and Commercial Aviation, v. 36(2), Feb. 1975: 62.
Recent articles and other publications.
132. BUSINESS AVIATION AND THE EUROPEAN 500. Business and Commercial Aviation, v. 35(1), Jul. 1974: 50-53.
Directory of European companies owning business aircraft and types owned.

133. BUSINESS AVIATION AND THE FORTUNE 1000 CORPORATIONS. *Business and Commercial Aviation*, v. 35(5), Nov. 1974: 52-56, ff.
Aircraft operated by the Fortune 1000.
134. Churchville, L. J. GOOD BUSINESS FLYING RECORD COULD BE BETTER. *SAFE Journal*, v. 5(1), Spring 1975: 12-15.
Causes of accidents in business aircraft.
135. CORPORATE AIRCRAFT SAFETY SEMINAR: PROFESSIONALISM - A WAY OF LIFE. Proceedings, 20th Annual Meeting, Apr. 13-15, 1975. Sponsored by Flight Safety Foundation, Inc., in cooperation with National Business Aircraft Association. Arlington, Va., Flight Safety Foundation, Inc., 1975.
151 p. (TL 541.6.C68)
136. DESIGNER OF SUPERCRITICAL WING ANSWERS QUESTIONS ON BIZ AV SHAPES TO COME. *Professional Pilot*, v. 9(2), Feb. 1975: 40-44.
Interview with Dr. Richard T. Whitcomb.
137. Ford, G. E. THE USE AND USAGE OF HELICOPTERS. *Aeronautical Journal*, v. 77(749), May 1973: 233-234.
Executive transport to locations not otherwise readily accessible, police, ambulance, photographic, etc.
138. GENERAL AVIATION - BUSINESS FLYING. Proceedings. Conference, Aug. 17-19, 1972, Tullahoma, Tenn., sponsored by University of Tennessee Space Institute and U.S. Federal Aviation Administration. Tullahoma, Tenn., 1972. 146 p. (TL 541.G37)
139. Harkins, Edwin P. BUSINESS AVIATION PRACTICES. New York, National Industrial Conference Board, 1970. ii, 122 p.
(TL 541.H28)
Based on information from 166 companies that operate one or more planes. The Conference Board previously studied business aviation in 1960.
140. Jose, Dwayne K. THE CORPORATE/EXECUTIVE MARKET FOR HELICOPTERS. Society of Automotive Engineers, National Air Transportation Meeting, New York, N. Y., Apr. 20-23, 1970. 31 p.
Gives brief history of corporate aviation and its advantages to business community, identifies problems and constraints confronting fixed-wing corporate air

transportation and identifies which are amenable to solution by rotorcraft. Reviews characteristics of some of most commonly used business helicopters.
Source: SAE (Paper 700285)

141. 1976 PROFESSIONAL PILOT SALARY SURVEY. Professional Pilot, v. 10(4), Apr. 1976: 60-61.
Average salaries, arranged by type of aircraft and type of business.
142. Paterson, Tom. BIZ AV FACES STRETCHOUT. Professional Pilot, v. 9(1), Jan. 1975: 20-21.
Economic forecast for business aviation.
143. PROBING THE ROLE OF THE HELICOPTER IN THE CORPORATE FLEET. Professional Pilot, v. 9(10), Oct. 1975: 72-75.
Continuing series of roundtable discussions with leaders in corporate helicopter operations and manufacturers.
144. _____ . Part II. Professional Pilot, v. 10(1), Jan. 1976: 22-24, ff.
145. _____ . Part III. Professional Pilot, v. 10(3), Mar. 1976: 19-20, ff.
146. PROFESSIONAL PILOT 1976 WHO'S WHO. Professional Pilot, v. 10(9), Sep. 1976: 14-16, ff.
147. SPECIAL REPORT: BUSINESS FLYING FACES NEW CHALLENGES. Aviation Week and Space Technology, v. 99(13), Sep. 24, 1973: 34-35, ff.
Twelve articles treat economics, rules, cost allocation, noise, sales, fuel, production, etc.
148. SPECIAL REPORT: BUSINESS FLYING'S CHANGING ENVIRONMENT. Aviation Week and Space Technology, v. 93(12), Sep. 21, 1970: 9, 40-43, ff.
Seventeen articles treat laws and regulations, airports, avionics, cargo, pilot training, police and ambulance roles. Editorial comment on problems of success.
149. SPECIAL REPORT: BUSINESS FLYING'S EXPANDING MARKET. Aviation Week and Space Technology, v. 101(12), Sep. 23, 1974: 11, 42-43, ff.
Seventeen articles on fuel, exports, helicopters, nav aids, etc., with editorial comment.

150. SPECIAL REPORT: BUSINESS FLYING'S MANAGEMENT NEEDS. Aviation Week and Space Technology, v. 97(11), Sep. 11, 1972: 9, 34-38, ff. Eleven articles on management, security, unionization, employee benefits, advertising, etc., with editorial comment.
151. SPECIAL REPORT: BUSINESS FLYING'S NEW REQUIREMENTS. Aviation Week and Space Technology, v. 95(12), Sep. 20, 1971: 11, 38-39, ff. Sixteen articles on regulations, legislation, maintenance, avionics, sales, etc., with editorial comment.
152. SPECIAL REPORT: INTERCONTINENTAL BUSINESS FLYING. Aviation Week and Space Technology, v. 93(24), Dec. 14, 1970: 40-41, ff. Ten articles on reasons for expansion, flight planning, nav aids, U.S. aid for foreign pilots, customs, etc.
153. Somers, Robert. OBSERVATIONS ON CORPORATE PILOT SALARIES. Professional Pilot, v. 9(4), Apr. 1975: 6, 8, 10-11. Review and comparison with payscales in other occupations.
154. Trammell, Archie. GOLDEN AGE OF CORPORATE FLYING. Flying, v. 87(4), Oct. 1970: 44-49. Brief history.
155. Trammell, Archie, and others. SPECIAL REPORT: THE FUEL SITUATION. Business and Commercial Aviation, v. 37(4), Oct. 1975: 89-104. Overview of corporate aviation's fuel problems.
156. U.S. DISTRIBUTION OF THE CORPORATE TURBINE FLEET. Business and Commercial Aviation, v. 34(5), Jun 1974: 58-59, 61. State-by-state totals for various types of aircraft.

C. Industrial/Special.

157. AGRICULTURAL AVIATION - FEEDING THE WORLD. Interavia, v. 30(12), Dec. 1975: 1271-1274.
158. AGRICULTURAL AVIATION IN THE EAST BLOC. Interavia, v. 30(12), Dec. 1975: 1285-1286.
159. Beall, James R. and Robert E. Downing. HELICOPTER UTILIZATION IN MUNICIPAL LAW ENFORCEMENT; ADMINISTRATIVE CONSIDERATIONS. Springfield, Ill., Thomas, 1972. ix, 80 p. (TL 540.71.B32)
160. Garvey, William. THE AG PILOT STORY. AOPA Pilot, v. 17(4), Apr. 1974: 53-56. How the "air applicators" work.

161. _____ . TO FEED THE WORLD - THE AGPLANE NOW.
AOPA Pilot, v. 18(2), Feb. 1975: 31-33.
Need for more cropdusting aircraft.
162. Hoffsommer, Alan. AGRICULTURAL AVIATION GUIDE: A GROWING
FIELD OF PILOT EMPLOYMENT. Rev. New York, Sports Car Press,
1973. 107 p. (Modern Aircraft Series) (TL 541.1.H6)
163. Lyon, Jim. FIRE DOWN BELOW. Flight International, v. 106
(3421), Oct. 3, 1974: 409-410.
Use of flying boats to fight forest fires.
164. Neuberger, Michael G. SPECIAL PURPOSE AIRCRAFT ENHANCE GENERAL
AVIATION GROWTH. ICAO Bulletin, v. 31(11), Nov. 1976: 12-16.
Special mission aircraft now account for 40% of Beech
Aircraft's international business.
165. Smith, Murray. 2,000,000 HOURS AND COUNTING. Professional
Pilot, v. 9(12), Dec. 1975: 22-23, ff.
World's largest helicopter operation: mostly involved
in oil production, its activities also include pipe-
lines, crop dusting, highway construction and passenger
service.
166. SMUGGLER PILOTS. Business and Commercial Aviation, v. 38(2),
Feb. 1976: 74-76.
Attempts to stop smuggling, tricks used by smugglers.
167. Stebbins, Clair. PRISONER AIRLIFT -- BY LIGHTPLANE. AOPA
Pilot, v. 19(3), Mar. 1976: 56-58.
Law enforcement officials use facilities of fixed base
operators.
168. Trammell, Archie. THE AIRPLANE AND THE FOOD BUSINESS. Business
and Commercial Aviation, v. 38(1), Jan. 1976: 9.
Aviation's contribution to food production.
169. U.S. AGRICULTURAL AIRCRAFT. Aviation Week and Space Technology,
v. 104(11), Mar. 15, 1976: 111.
Table of specifications.
170. U.S. Civil Aeromedical Institute, Oklahoma City, Okla. AERO-
MEDICAL TRANSPORTATION AND GENERAL AVIATION. Washington, U. S.
Federal Aviation Administration, Apr. 1971. 10 p. FAA-AM-71-18.
While military medical evacuation system is well developed,
training, experience, legislative and education efforts are
needed to assure optimum general aviation patient trans-
portation.
Source: NTIS (AD-728 315)

171. Woodin, Rip. MEDICAL AIR OPERATIONS. AOPA Pilot, v. 19(3), Mar. 1976: 85-87.
Medical school fleet carries doctors to clinics throughout North Carolina.

D. Instructional.

172. Brechner, Berl. TRAINING AND PROFICIENCY: AT THE AIRPORT. AOPA Pilot, v. 17(10), Oct. 1974: 37-39.
Airport-based flight schools.
173. COLLEGES AND UNIVERSITIES WITH FLIGHT TRAINING AND/OR GROUND SCHOOL PROGRAMS. AOPA Pilot, v. 17(10), Oct. 1974: 43-44.
174. Gault, Ross T. TO SELL MORE FLIGHT INSTRUCTION, KNOW HOW TO TIP THE SALES SCALE. Airport Services Management, v. 16(3), Mar. 1975: 18-19.
Reinforce positive factors to satisfy students' felt needs.
175. Kershner, William K. THE FLIGHT INSTRUCTOR'S MANUAL. Ames, Iowa, Iowa State University Press, 1974. viii, 382 p. (TL 712.C5K38)
176. Taylor, T. AIRPLANE AS A TEACHING TOOL. Flying, v. 89(6), Dec. 1971: 54-56.
Learn to fly program aiding in high school level physics, geometry, English, social studies, mathematics, etc.
177. U.S. Federal Aviation Administration. AIRPLANE FLIGHT INSTRUCTOR WRITTEN TEST GUIDE. Washington, Sep. 1972. 47 p. Advisory Circular 61-11B.
Information on certification requirements, application procedures and reference study material; sample examination.
Source: GPO (TD4.408:In 7/972 SN 050-011-00061-5)
178. _____ . FLIGHT INSTRUCTOR - AIRPLANE - WRITTEN TEST GUIDE. Washington, Apr. 1974. 77 p. Advisory Circular 61-72.
Source: GPO (TD 4.408:In 7/974 SN 050-007-00251-3)
179. _____ . FLIGHT INSTRUCTOR INSTRUMENT - AIRPLANE - WRITTEN TEST GUIDE. Washington, Mar. 1974. 93 p. Advisory Circular 61-70.
Source: GPO (TD 4.8:In 7/6 SN 050-007-00252-1)

180. _____ . FLIGHT INSTRUCTOR PRACTICAL TEST. Washington, Oct. 1969. (Reprinted 1976). 11 p. Advisory Circular 61-14A.
Source: GPO (TD 4.408:In 7/4 SN 050-011-00032-1)
181. _____ . FLIGHT INSTRUCTOR REFRESHER CLINICS - SCHEDULING, ATTENDANCE, FACILITIES AND EQUIPMENT. Washington, Feb. 1974. 2 p. Advisory Circular 61-68.
Source: Dept. of Transportation, TAD-443.1.
182. _____ . FLIGHT INSTRUCTOR ROTORCRAFT - HELICOPTER WRITTEN TEST GUIDE. Washington, May 1974. 79 p. Advisory Circular 61-74.
Source: GPO (TD 4.408:R74 SN 050-007-00272-6)
183. _____ . FLIGHT INSTRUCTOR'S HANDBOOK. Washington, Oct. 1969. 118 p. (Reprinted 1972). Advisory Circular 61-16A.
For pilots preparing to apply for flight instructor certificates and for use as a reference by flight instructors.
Source: GPO (TD 4.408:In 7/3 SN 050-011-00031-3)

E. Personal.

184. AEROBATICS, LIKE EVERYTHING. Flying, v. 9(1), Jul. 1972: 45-50.
Men and women of the U.S. Aerobatic Team.
185. Blodget, Robert. HOW TO RUN A FLYING CLUB. Flying, v. 89(3), Sep. 1971: 54-55. v. 89(6), Dec. 1971: 80-81.
186. _____ . HOW TO START A FLYING CLUB FOR FUN AND PROFIT. Flying, v. 88(6), Jun. 1971: 46-48.
187. Cook, LeRoy. ANYONE FOR AN AIRSHOW? Private Pilot, v. 11(4), Apr. 1976: 17-19.
How to organize one.
188. Emrich, Linn. THE COMPLETE BOOK OF SKY SPORTS. New York, Macmillan, 1970. xii, 208 p. (TL 750.E78)
Especially Chapter 5, p. 164-204, "Power plane."

189. Kinert, Reed Charles. RACING PLANES AND AIR RACES: A COMPLETE HISTORY. Fallbrook, Calif., Aero Publishers, Inc., 1967- (TL 540.5.K5)

Series covers all important air races from first international Air Meet, Rheims, France, 1909.
V. 1 1901-1923; v. 2 1924-1931; v. 3 1932-1939; v. 4 1946-1968; v. 5 - 1969 - annually.

190. Wilkerson, Jami. KEEP THE ANTIQUES FLYING. Air Line Pilot, v. 43(5), May 1974: 25-27.

Restoring, flying and housing antique planes.

NOTE: Material on all facets of personal flying is too voluminous to list.

- How to fly and necessary related knowledge are continuing subjects of both periodical articles and books. See also section headed "Pilots and Piloting."
- Personal experiences in flying appear abundantly in both periodical literature and books. The latter range from subjective expressions such as Richard Bach's A Gift of Wings to tales of specific flights such as Charles A. Lindbergh's We.
- Annual air shows and special general aviation-related events are reported in the periodical literature.

See also list of journals, p. 63.

EQUIPMENT AND TECHNOLOGY

A. Aircraft Technology.

191. Aarons, Richard N. ELECTRONIC FUEL CONTROLS. *Business and Commercial Aviation*, v. 35(5), Nov. 1974: 48-50.
How they work to get performance and safety from new technology engines not possible with conventional means.
192. _____ . THE UPS AND DOWNS OF PRESSURIZATION. *Business and Commercial Aviation*, v. 33(5), Nov. 1973: 54-60.
Pressurization systems and how they work on twin engine general aviation aircraft.
193. Battelle Memorial Institute, Columbus, Ohio. INVESTIGATION OF THE APPLICABILITY OF THE FREE-WING PRINCIPLE TO LIGHT, GENERAL AVIATION AIRCRAFT. Washington, U.S. National Aeronautics and Space Administration, Jun. 1972. 120 p. NASA-CR-2046 (IR 72-01798)
Wing free to pivot about a spanwise axis forward of its aerodynamic center and subject only to aerodynamic pitching moments imposed by lift and drag forces and a training-edge control surface could have substantial gust-alleviation benefits.
Source: NTIS (N72-26996)
194. Brantigan, John W. WHEN BEING "ON OXYGEN" IS NOT GOOD ENOUGH. *AOPA Pilot*, v. 17(8), Aug. 1974: 38-40.
Typical general aviation oxygen equipment not adequate in some situations.
195. Chausse, Ron. SUPER WINGS ARE COMING. *Private Pilot*, v. 11(4), Apr. 1976: 24-27.
New airfoils from NASA.
196. _____ . TAIL FIRST OR LAST? *Private Pilot*, v. 10(5), May 1975: 46-47.
Aerodynamic concepts of a "tail first" aircraft.
197. _____ . WHY TWO WHEN ONE WILL DO? IT HAS TO DO WITH NUMBERS. *Private Pilot*, v. 10(3), Apr. 1975: 15-20.
Advantages of twin engine over single engine craft.

198. Crane, Harold L. and others. APPLICATIONS OF ADVANCED AERONAUTICS TECHNOLOGY TO LIGHT AIRCRAFT. Society of Automotive Engineers, Business Aircraft Meeting, Wichita, Kans., Apr. 3-6, 1973. 23 p.
Discusses project, partly NASA funded, for adapting advanced technology, much of it borrowed from the jet transport, to general aviation design practice.
Source: SAE (Paper 730318)
199. Hamilton Standard, Windsor Locks, Ontario. ADVANCED GENERAL AVIATION PROPELLER STUDY. Washington, U.S. National Aeronautics and Space Administration, Apr. 1971. 206 p. NASA-CR-114289 (IR 76-0457)
Effects on performance, noise, weight and cost of advanced general aviation aircraft propellers of technology anticipated in 1980 time period.
Source: NTIS (N71-35206)
200. Kohlman, David L. and Carl H. Brainerd. EVALUATION OF SPOILERS FOR LIGHT AIRCRAFT FLIGHT PATH CONTROL. Journal of Aircraft, v. 11(8), Aug. 1974: 449-456.
201. Lewis, David. EGT: METER FOR MISERS. Private Pilot, v. 9(4), May 1974: 36-39.
Techniques for installing and using exhaust gas temperature monitors to save on fuel consumption.
202. NEW ENGINES FOR AGRICULTURAL AIRCRAFT. Interavia, v. 30(12), Dec. 1975: 1283-1284.
203. North Carolina State University, Raleigh, N.C. A DESIGN STUDY FOR A SIMPLE-TO-FLY, CONSTANT ATTITUDE LIGHT AIRCRAFT. Washington, U.S. National Aeronautics and Space Administration, Mar. 1973. 322 p. NASA-CR-2208 (IR 73-00976)
While such aircraft would reduce hazards to occupants, costs would be increased.
Source: NTIS (N73-18037)
204. Ohio State University Research Foundation, Columbus, Ohio. DEVELOPMENT OF STALL DETERRENT DEVICE FOR SMALL AIRPLANES. Washington, U.S. Federal Aviation Administration, Jun. 1975. 68 p. FAA-RD-75-53. (IR 75-0796) (See also Item 214.)
Kinesthetic-tactual display presents continuous angle of attack information to pilot during critical operational phases.
Source: NTIS (AD-A012 387)

205. Princeton University, Princeton, N. J. FLYING QUALITIES OF SMALL GENERAL AVIATION AIRPLANES. Part 1. The influence of Dutch-roll frequency, Dutch-roll damping, and dihedral effect. Washington, U. S. Federal Aviation Administration, Jun. 1969. 56 p. FAA-DS-69-8 (IR 70-01075)

Four part study in which experiments were conducted with a variable stability flying simulator. The results are presented in a generalized quantitative form useful to designers.

Source: NTIS (AD-690 899)

206. _____
Part 2. The influence of roll control sensitivity, roll damping, Dutch-roll excitation, and spiral stability. Apr. 1970, 131 p. FAA-RD-70-65. (IR 71-00005)

Source: NTIS (AD-715 582)

207. _____
Part 3. The influence of short period frequency and damping, pitch control sensitivity, and lift curve slope. Dec. 1971. 47 p. FAA-RD-71-4 (IR 72-00677)

Source: NTIS (AD-739 879)

208. _____
Part 4. Review of some recent in-flight simulation experiments and some suggested criteria. Dec. 1971. 113 p. FAA-RD-71-118 (IR 72-00679)

Source: NTIS (AD-739 880)

209. Rice, Robert K. and Robert B. Oetting. PRELIMINARY WIND TUNNEL TESTS OF A FINITE ASPECT RATIO HIGH PERFORMANCE GENERAL AVIATION WING. Journal of Aircraft, v. 13(3), Mar. 1976: 223-224.

210. ROSKAM, Jan. OPPORTUNITIES FOR PROGRESS IN GENERAL AVIATION TECHNOLOGY. American Institute of Aeronautics and Astronautics, 11th Annual Meeting and Technical Display, Washington, D.C., Feb. 24-26, 1975. 15 p.

In areas such as controls, structures, propulsion, avionics, etc., decade ahead should be one of exciting new developments.

Source: AIAA (Paper 75-292)

211. Roskam, Jan and David L. Kohlman. THE GRUDGING PROGRESS OF LIGHT PLANE DESIGN. Air Progress, v. 34(1), Jan. 1974: 28-37, 80.
Why has progress been so slow, who has the bright, new ideas, and is anyone exploiting them?
212. Saunders, George and Dan Manningham. HELICOPTER STABILITY. Business and Commercial Aviation, v. 36(1), Jan. 1975: 66-68, ff.
Dynamics of helicopter stability and control.
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Advances in aerodynamics, materials and methods of production expected to spur significant changes in business aircraft within next 15 years.
214. Texas A&M Research Foundation, College Station, Texas. DEVELOPMENT OF STALL DETERRENT CONCEPTS FOR GENERAL AVIATION AIRCRAFT. Washington, U. S. Federal Aviation Administration, Feb. 1975. 152 p. FAA-RD-75-52 (IR 75-0814) (See also Item 204)
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Source: NTIS (AD-A012 386)
215. U. S. Federal Aviation Administration. FATIGUE EVALUATION OF WING AND ASSOCIATED STRUCTURE ON SMALL AIRPLANES. Washington, May 1973. 38 p. AFS-120-73-2. (IR 73-01519)
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Source: NTIS (AD-762 832)
216. U. S. National Aeronautics and Space Administration, Ames Research Center, Moffett Field, Calif. FULL-SCALE WIND TUNNEL TESTS OF A SMALL UNPOWERED JET AIRCRAFT WITH A T-TAIL. Washington, Nov. 1971. 99 p. NASA-TN-D-6573 (IR 72-00099)
Aerodynamic characteristics of a full-scale executive type jet transport aircraft with T-tail.
Source: NTIS (N72-10031)

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Technical data and performance specifications of over 100 aircraft types studied in effort to develop simple, rapid method for assessing design quality of light aircraft with widely varying performance characteristics.

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Source: AIAA (Paper 75-290)

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Avionics package for light aircraft.

225. _____. RNAV ACCURACY. Business and Commercial Aviation, v. 38(2), Feb. 1976: 56-61.
Reasons for errors, how to check them.

226. _____. SIZING UP THE BLACK BOXES. Business and Commercial Aviation, v. 38(3), Mar. 1976: 66-68.
Standards for physical dimensions of avionics equipment.

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231. Cook, LeRoy. FLYING THE OMNI. Private Pilot, v. 11(1), Jan. 1976:18-21.
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Trend toward replacement of dials with digital displays.
233. Garvey, William. THE ELT REVISITED. AOPA Pilot, v. 19(4), Apr. 1976:55-57.
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235. Massachusetts Institute of Technology, Flight Transportation Laboratory, Cambridge, Mass. A COMPARATIVE ANALYSIS OF AREA NAVIGATION SYSTEMS FOR GENERAL AVIATION. Jun. 1973. 191 p. FTL R74-1 (IR 75-0168)
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Source: NTIS (N74-34153)
236. 1976 AVIONICS BONUS SUPPLEMENT. AOPA Pilot, v. 19(6), Jun. 1976: 71-101.
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Pictures, specifications, prices.
238. 1976 BUYER'S GUIDE TO BIZAV RNAV/VLF/OMEGA EQUIPMENT. Professional Pilot, v. 10(1), Jan. 1976: 34-35, ff.
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240. _____ . DME: HOW IT WORKS. Private Pilot, v. 9(10), Oct. 1974: 40-41.

241. _____ . ILS: HOW IT WORKS. Private Pilot, v. 9(6), Jul. 1974: 50-51.
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243. Penny, Peter E. GPWS FOR CORPORATE/BUSINESS AIRCRAFT. ICAO Bulletin, v. 30(3), Mar. 1975: 28-31.
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244. PRODUCTS DIRECTORY. Business and Commercial Aviation, v. 38(4), Apr. 1976: 178-188.
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245. PULSE: 1976 BUYER'S GUIDE. Professional Pilot, v. 10(2), Feb. 1976: 40, 42, ff.
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SOURCE: NTIS (AD-A 016 666)
248. U.S. National Aeronautics and Space Administration, Ames Research Center, and U.S. Army Air Mobility R&D Laboratory, Moffett Field, Calif. LANDING APPROACH EVALUATION OF AN INTEGRATED CRT DISPLAY FOR GENERAL AVIATION AIRCRAFT. Washington. Jul, 1974. 13 p. NASA-TM-X-3096 (IR 75-0510)
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Source: NTIS (N74-30096)

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250. WHO'S WHO IN HELICOPTER AVIONICS? Interavia, v. 31(1), Jan. 1976: 48-50.
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AIRPORTS AND SERVICES

A. Airports.

251. Buley, George L. DESIGN OF GENERAL AVIATION AIRPORTS AND HELIPORTS. Society of Automotive Engineers, National Business Aircraft Meeting, Wichita, Kansas, Mar. 18-20, 1970. 7 p.
Describes procedures used by the Federal Aviation Administration in developing technical criteria for general aviation airports and heliports; reviews current recommended standards. (See also Item 259)
Source: SAE (Paper 700231)
252. Burns & McDonnell Engineering Company, Kansas City, Mo. ANALYSIS OF GENERAL AVIATION AIRPORTS DEVELOPED WITH AND WITHOUT FEDERAL FINANCIAL ASSISTANCE. Summary Report Task I. Aug. 1974. 60 p. (IR 75-0740)
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253. _____.
Summary Report Task II. Comparative analysis of selected general aviation airports. Feb. 1975. 318 p. (IR 75-0741)
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Source: NTIS (AD-A011 541)
254. _____.
Summary Report Task III. Evaluation of federal standards and program procedures. May 1975. 85 p. (IR 75-0742)
Detailed evaluation of standards and requirements of the Federal Aviation Administration.
Source: NTIS (AD-A011 542)

255. Final Report. May 1975. 23 p. (IR 75-0743)
Summary of three separate tasks to provide the Federal Aviation Administration with information concerning effectiveness of the Airport Development Aid Program and its standards, as compared to similar programs of state aviation agencies, as affects general aviation airports only.
Source: NTIS (AD-A011 543)
256. General Aviation Operations Research, Inc., Fallbrook, Calif. ANALYSIS OF THE IMPACT OF TERMINAL CONTROL AREA (TCA) IMPLEMENTATION ON GENERAL AVIATION ACTIVITY. Washington, U.S. Federal Aviation Administration, May 1976. 75 p. FAA-AVP-77-13 (IR 77-0333)
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257. Gilfillan, Walter I. GENERAL AVIATION'S URBAN AIRPORT CAPACITY PROBLEM. *Transportation Engineering Journal*, Proceedings of the American Society of Civil Engineers, v. 96 (TE-1), Feb. 1970: 79-85.
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List of FAA-designated fields for relief of hub airports at 58 cities.
259. U.S. Federal Aviation Administration. AIRPORT DESIGN STANDARDS, GENERAL AVIATION AIRPORTS, BASIC AND GENERAL TRANSPORT. Washington, Jul. 1969. 42 p. Advisory Circular 150/5300-6.
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Source: Dept. of Transportation, TAD-443.1
260. THE AIRPORT - IT'S INFLUENCE ON THE COMMUNITY ECONOMY. Washington, 1967. 69 p.
Tangible evidence of significant community benefit causally related to development of airports built primarily for use by general aviation and with financial assistance under Federal-aid Airport Program. (IR 75-0425)

261. _____ . ECONOMICS OF AIRPORT OPERATION. CALENDAR YEAR 1972. Washington, Apr. 1974. 53 p. (IR 74-0866)
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262. _____ . UTILITY AIRPORTS - AIR ACCESS TO NATIONAL TRANSPORTATION. Washington, Jun. 1975. 114 p. Advisory Circular 150/5300-4B.
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264. General Aviation Manufacturers Association. MR. AVIATION: HOW TO LAND A CAREER AS A FIXED BASE OPERATOR. Washington, 1974/12 p. (TL 561.G37)
265. HOW TO DEVELOP AWARD WINNING LINE SERVICE. Airport Services Management, v. 16(2), Feb. 1975: 26-27.
Tips for fixed base operators.
266. PROFESSIONAL FLIGHT LINE SERVICE. Airport World, v. 6(11), Nov. 1973: 23-38.
Training manual adapted from film prepared for Aircraft Owners and Pilots Association (AOPA) Air Safety Foundation. Step-by-step look at professional line servicing techniques for general aviation aircraft.
267. U. S. Federal Aviation Administration. CONSOLIDATED LISTING OF FAA CERTIFICATED REPAIR STATIONS. Washington, 1976. 72 p. Advisory Circular 140-1H.
Source: Dept. of Transportation, TAD-443.1

PILOTS AND PILOTING

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268. Black, Martin. WEIGHT AND BALANCE. Private Pilot, v. 9(10), Oct. 1974: 24-29.
Dangers of carrying excess weight in aircraft.

269. Cook, LeRoy. IMPROVING YOUR LANDINGS. Private Pilot, v. 10(6), Jun. 1975: 19-23.
Specific advice, with diagrams.
270. Cotton, Bill. REMOTE-AIRPORT IFR. Business and Commercial Aviation, v. 38(3), Mar. 1976: 46-49.
Considerations and techniques for the general aviation pilot.
271. THE FINE ART OF DESERT FLYING. AOPA Pilot, v. 18(4), Apr. 1975: 45-48.
Problems of increasing density altitude.
272. FUEL ECONOMY FOR JETS. Business and Commercial Aviation, v. 24 (2), Feb. 1974: 54-56.
Flying techniques which can save fuel.
273. Garvey, William. TRAINING AND PROFICIENCY: IN THE CLASSROOM. AOPA Pilot, v. 17(10), Oct. 1974: 34-36.
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274. THE GENERAL AVIATION PILOT AND AIR TRAFFIC CONTROLLERS. The Controller, v. 15(1), Feb. 1976: 34-35.
275. Gilbert, James. THE FLIER'S WORLD. New York, Random House, 1976. 252 p. (TL 546.7.G56)
A former staff writer for FLYING magazine covers varied facets of flying to which pilot might turn his interest.
276. Jones, John Paul. STALLS. Flight Operations, v. 65(3), Mar. 1976: 36-39, ff.
Stall procedures and factors affecting stalls.
277. Kurt, Franklin T. WATER FLYING. New York, Macmillan, 1974. xv, 272 p. (TL 685.K87)
278. Lehman, Charles A. MAKE A FUSS! AOPA Pilot, v. 17(4), Apr. 1974: 66-69.
Art of signaling for help.
279. Lewis, Arnold. THE CORPORATE COPILOT. Business and Commercial Aviation, v. 36(3), Mar. 1975: 58-60.
Importance of defining copilot's responsibilities.

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281. Manningham, Dan. THE INOPERATIVE PILOT. Business and Commercial Aviation, v. 35(4), Oct. 1974: 35-39.
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Findings demonstrate the existence of a Pilot's Personality transcending sex distinctions. Female pilots have more personality traits in common with male pilots than they have with women in the U.S. population at large.
284. PLANNING AHEAD FOR SURVIVAL. AOPA Pilot, v. 18(3), Mar. 1975: 36-37.
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285. Schiff, Barry. ENGINE FAILURE AFTER TAKE-OFF. AOPA Pilot, v. 17(11), Nov. 1974: 22-26.
What to do.
286. Sweazey, Robert W. TRAINING AND PROFICIENCY: IN THE COCKPIT. AOPA Pilot, v. 17(10), Oct. 1974: 29-42.
Hints for practice to maintain or improve pilot proficiency.
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Tips on making flight plans.
289. Trammell, Archie. INCAPACITATION AND THE SINGLE-PILOT OPERATOR. Business and Commercial Aviation, v. 35(6), Dec. 1974: 75.
Procedures to follow to help passengers handle an emergency.

290. U.S. Federal Aviation Administration, Civil Aeromedical Institute. STUDY OF CONTROL FORCE LIMITS FOR FEMALE PILOTS. Oklahoma City, Okla., Dec. 1973. 30 p. FAA-AM-73-23. (IR 74-0562)
Data indicate FAR control force limits for general aviation aircraft are too high for sizable portion of U.S. female pilot population.
Source: NTIS (AD-777 839)
291. U.S. National Aeronautics and Space Administration, Langley Research Center, Hampton, Va. LANDING PRACTICES OF GENERAL AVIATION PILOTS IN SINGLE-ENGINE LIGHT AIRPLANES. Oct. 1976. 48 p. NASA-TN-D-8283. (IR 77-0243)
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Source: NTIS (N77-11033)
292. U.S. National Aviation Facilities Experimental Center, Atlantic City, N.J. VISUAL ATTENTION OF PRIVATE PILOTS, THE PROPORTION OF TIME DEVOTED TO OUTSIDE THE COCKPIT. Washington, U. S. Federal Aviation Administration, May 1976. 25 p. FAA-NA-75-28; RD-76-80. (IR 76-0844)
A test environment for pilot warning systems to aid visual detection of potential threats should be realistic about proportion of attention available for outside search.
Source: NTIS (AD-A025 468)
293. Williams, J. R. FLYING MULTI-ENGINE AIRPLANES. Private Pilot, v. 11(6), Jun. 1976: 44-47.
Questions and problems which arise most frequently.

B. Handbooks.

294. Aero Products Research, Inc. Aviation Education Department. PRIVATE PILOT. 6th ed. Los Angeles, Calif., 1973. Various pagings. (TL 710.A48)
Programmed course designed to prepare students for FAA private pilot airplane written examination.
295. Aircraft Owners and Pilots Association. AOPA HANDBOOK FOR PILOTS. Washington, 1976. 320 p. (TL 710.A58)
Information for the pilot in form and size convenient for use; does not, however, substitute for aeronautical charts, Airman's Information Manual, and other publications used in day-to-day flight activities.

296. Bergman, Jules. ANYONE CAN FLY. New York, Doubleday, 1976. (TL 710.B4)
From first stages to FAA exam. Includes illustrations of private and business aircraft and glossary of flight terms.
297. Boyes, Lindy. PILOT'S WEATHER GUIDE. Rev. New York, Sports Car Press, 1971. 127 p. (TL 556.B7)
298. Buckwalter, Len. THE PILOT'S NIGHT FLYING HANDBOOK. Garden City, N. Y., Doubleday, 1976. ix, 171 p. (TL 711.N5B83)
Illustrated guide to techniques and safety procedures.
299. Cessna Aircraft Company. AN INTRODUCTORY AVIATION COURSE GUIDE. Rev. ed. Wichita, Kansas, 1971. 53 p. (TL 710.C38)
300. Downie, Don. COCKPIT NAVIGATION GUIDE. With copilot assistance from Ruth Downie. Rev. New York, Sports Car Press, 1974. 125 p. (Modern Aircraft Series) (TL 586.D7)
301. _____. TRAINING AND PROFICIENCY: BY THE BOOK. AOPA Pilot, v. 17(10), Oct. 1974: 31-33.
Texts for pilot training and home study.
302. Engel, Lyle Kenyon. THE COMPLETE BOOK OF FLYING. Text by Monty Norris. New York, Four Winds Press, 1976. 297 p. (TL 710.E75)
Basic principles of aeronautics and instructions received at a typical flight school.
303. Reithmaier, Larry W. PRIVATE PILOT'S GUIDE. Fallbrook, Calif., Aero Publishers, 1972. 288 p. (TL 544.R45)
Basic knowledge for student pilots.
304. Taylor, Richard L. FAIR-WEATHER FLYING. New York, Macmillan Publishing Co., Inc., 1974. xiv, 297 p. (TL 710.T29)
How to get more out of your airplane and sharpen your flying skills.
305. U.S. Federal Aviation Administration. PILOT'S HANDBOOK OF AERONAUTICAL KNOWLEDGE. Washington, 1971. 207 p. Advisory Circular 61-23A.
Essential, authoritative information used in training and guiding applicants for private pilot certification, instructor and flying school staffs.
Source: GPO (TD4.408:P 64/5. SN 050-011-00051-8.)

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C. Maintenance.

307. AOPA SPURS 80/100LL AVGAS RESEARCH EFFORT. AOPA Pilot, v. 19(3), Mar. 1976: 54-55
Search for alternative fuels.
308. Aarons, Richard N. CORPORATE HELICOPTER MAINTENANCE. Business and Commercial Aviation, v. 38(1), Jan. 1976: 82-85.
309. ACCEPTABLE ALTERNATE ENGINE FUELS. AOPA Pilot, v. 17(3), Mar. 1974: 25.
Charts arranged by engine type.
310. Collier, Myron W. 5100 HOURS AT FIRST OVERHAUL. Professional Pilot, v. 10(2), Feb. 1976: 24-28.
Care of engines to reduce maintenance costs.
311. Elwell, Russell C. THE WAR AGAINST ENGINE CORROSION. AOPA Pilot, v. 17(7), Jul. 1974: 40-42.
Techniques for preventing corrosion in infrequently used aircraft.
312. Johnson, Jack. FLY THE ENGINE. Private Pilot, v. 9(3), Apr. 1974: 26-31.
How to use the engine most efficiently; damage caused by improper use.
313. King, Jack L. CONSIDERATIONS IN SELECTING O&R FACILITY. Professional Pilot, v. 8(8), Aug. 1974: 16-18, 20.
What corporate operators should consider in selecting an overhaul and repair facility.
314. MAKING SENSE OUT OF MANUALS. AOPA Pilot, v. 17(7), Jul. 1974: 61-63.
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315. PROGRESSIVE AIRCRAFT INSPECTION. AOPA Pilot, v. 17(12), Dec. 1974: 55-58.
Pros and cons of different maintenance inspection programs.

SAFETY AND ACCIDENTS

A. Safety.

316. Allen, Robert and William Roberts. ASPECTS OF STRUCTURAL SAFETY IN GENERAL AVIATION AIRPLANES. Society of Automotive Engineers, National Business Aircraft Meeting, Wichita, Kans., Mar. 15-17, 1972.
A review of 1547 accidents for structural safety responsibility indicates that special emphasis is needed on aerodynamic improvement in ability to negotiate severe weather.
Source: SAE (Paper 720308)
317. Altman, H. Beare. CORPORATE/EXECUTIVE AIRCRAFT PASSENGER SAFETY: AN EDUCATIONAL APPROACH. SAFE Journal, v. 5(1), Spring 1975: 7-11.
More emphasis should be put on educating passengers on their role in aircraft emergencies.
318. Bruce, James and John Draper. CRASH SAFETY IN GENERAL AVIATION AIRCRAFT. Washington, Center for Study of Responsive Law, 1970. 98 p. Processed. (TL 720.5.B88)
Nader student group report.
319. Collins, R. L. CALLING IT SAFE: A HARD LOOK AT CERTIFICATION. Flying, v. 92(1), Jan. 1973: 73-76.
Questions FAA delegation of certification responsibility.
320. Daiutolo, Hector. DYNAMIC TESTS OF GENERAL AVIATION OCCUPANT RESTRAINT SYSTEMS. Society of Automotive Engineers, National Business Aircraft Meeting, Wichita, Kans., Mar. 15-17, 1972. 72 p.
Series of 22 tests involving both lap belt and lap belt/shoulder harness systems.
Source: SAE (Paper 720325)
321. Hoekstra, Harold D. and Shung-Chai Huang. SAFETY IN GENERAL AVIATION. Arlington, Va., Flight Safety Foundation, 1971. iv, 126 p. (TL 720.5.H63)
Study examines current record, design and operational means by which record may be improved. Accidents are analyzed and ways of building aircraft so that a higher survival rate is possible are discussed.

322. Jerome, E. A. (Jerry). HOW TO COMBAT SECURITY RISKS IN GENERAL AVIATION. Flight Operations, v. 64(13), Dec. 1975: 12-18, ff.
323. Lewis, Arnold and Richard N. Aarons. NTSB'S SAFETY MESSAGE TO BUSINESS PILOTS. Business & Commercial Aviation, v. 37(4), Oct. 1975: 68-73.
Interview with John Reed, including statistics on corporate aircraft accidents.
324. Lockheed-California Company, Burbank, Calif. A METHOD OF ANALYSIS FOR GENERAL AVIATION AIRPLANE STRUCTURAL CRASH-WORTHINESS. Washington, U.S. Federal Aviation Administration, Sep. 1976. 317 p. FAA-RD-76-123. (IR 76-1632)
Computerized crash analysis program can be tool to facilitate development of improved crashworthiness.
Source: NTIS (AD-A032 415)
325. Madayag, A. F. FAA GENERAL AVIATION CRASHWORTHINESS PROGRAM. Society of Automotive Engineers, Business Aircraft Meeting, Wichita, Kans., Apr. 3-6, 1973. 12 p.
In depth discussion of Federal Aviation Administration Crashworthiness Program for Small Airplanes (propeller-driven) and on-going efforts by various federal agencies in support of this program.
Source: SAE (Paper 730293)
326. Princeton University, Dept. of Aerospace and Mechanical Science, Princeton, N. J. GENERAL AVIATION AIRCRAFT SAFETY. Princeton University Conference Meeting Nr. 119, Oct. 24-25, 1973. Washington. U.S. Federal Aviation Administration, Oct. 1974. 149 p. FAA-RD-74-154. (IR 75-0064)
Conference organized to examine accident record of general aviation aircraft and to explore possible approaches to its improvement.
Source: NTIS (AD-A003 124)
327. SAFETY IS NO ACCIDENT - THE FIRST COMMANDMENT. Interavia, v. 31(3), Mar. 1976: 233-234.
Guidelines for light aircraft pilots.
328. Silver, Brent W. THE FUTURE OF SAFETY IN GENERAL AVIATION. AIAA Student Journal, v. 14(3), Fall 1976: 12-15.
Statistics show that level of safety in general aviation is not good.

329. Strickler, Mervin K. and Jack J. Eggspuehler: GENERAL AVIATION SAFETY - FACT AND FICTION. AIAA Student Journal, v. 12, Winter 1974-1975: 8-12.
 General aviation accident statistics for 1970 reviewed and categorized; most frequent types of accidents listed. Ten leading causal citations all involved pilot failure.
330. Thomson, R. G. and R. J. Hayduk. LIGHT AIRCRAFT CRASH SAFETY PROGRAM. Society of Automotive Engineers, Business Aircraft Meeting, Wichita, Kans., Apr. 2-5, 1974. 8 p.
 Describes research and development tasks which are NASA'S responsibility under General Aviation Crashworthiness Program conducted by both the National Aeronautics and Space Administration and the Federal Aviation Administration. Goal is to provide general aviation industry with a reliable crashworthy airframe design technology.
 Source: SAE (Paper 740353)
331. Trammell, Archie. MIDAIR COLLISIONS. Business and Commercial Aviation, v. 38(1), Jan. 1976: 96-97.
 Pilot precautions to avoid collisions.
332. Tuck, D. A. TECHNOLOGY FOR IMPROVED SAFETY. American Institute of Aeronautics and Astronautics, 11th Annual Meeting and Technical Display, Washington, D.C., Feb. 24-26, 1975. 3 p.
 Most promising FAA general aviation research projects are in crashworthiness and stall prevention.
 Source: AIAA (Paper 75-291)
333. U.S. Dept. of Transportation, Assistant Secretary for Safety and Consumer Affairs. GENERAL AVIATION SAFETY. Report to the Secretary, by Benjamin O. Davis, Jr. Washington, Sep. 15, 1971. 31 p. (IR 71-03446)
 Study to analyze factors contributing to general aviation safety for purpose of finding ways to reduce accident rates.
 Source: NTIS (AD-202 923)
334. U.S. Federal Aviation Administration. SAFETY EFFECTS OF DIVERSIONS OF GENERAL AVIATION AIRCRAFT OPERATIONS FROM TOWER TO NON-TOWERED AIRPORTS. Washington, Jul. 1974. 88 p. (IR 75-0031)
 Investigation of 1964-1972 accidents indicates probable increase with diversion, all other things being equal.

342. Manningham, Dan. AFTER THE ACCIDENT. Business and Commercial Aviation, v. 35(3), Sep. 1974: 64-66, ff.
Responsibilities regarding the National Transportation Safety Board, insurance, etc., after a corporate aircraft accident.
343. Snyder, R. G. CRASHWORTHINESS INVESTIGATION OF GENERAL AVIATION ACCIDENTS. Society of Automotive Engineers, Business Aircraft Meeting, Wichita, Kansas, Apr. 8-11, 1975. 18 p.
"A five year study of general aviation accidents is used as basis to illustrate recent findings relative to occupant injury mechanisms, relative crash protection, and crash-worthiness performance of current models of aircraft." - author.
Source: SAE (Paper 750537)
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Technical Information Service
750 Third Avenue
New York, New York 10017

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5285 Port Royal Road
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1001 Connecticut Avenue, N.W.
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1800 North Kent Street
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SPORT AVIATION

Experimental Aircraft Association
P. O. Box 229
Hales Corners, Wisconsin 53130

WORLD OF AGRICULTURAL AVIATION

National Agricultural Aviation Association
1101 17th St., N.W.
Washington, D.C. 20036

INDEX: INDIVIDUAL

<u>Individual</u>	<u>Item No.</u>
Aarons, Richard N.	105, 191, 192, 225, 226, 227, 308, 323, 396
Allen, Robert	316
Altman, H. Beare	317
Alverson, Warren J.	130
Auriol, Jacqueline	63
Babington-Smith, Constance	64
Bain, Donald	4
Barker, Ralph	50
Beall, James R.	159
Beard, Melba	65
Benner, Douglas E.	381
Benyo, Richard	90
Bergman, Jules	296
Black, Martin	268
Blodget, Robert	185, 186
Boesen, Victor	51
Boyes, Lindy	297
Brainerd, Carl H.	200
Brantigan, John W.	194
Brechner, Berl	172, 228, 382
Breiling, Robert E.	340
Brewer, George F.	5
Broadbent, Stephen	230
Bruce, James	318
Buckwalter, Len	298
Buegeleisen, Sally	52
Bulban, E. J.	411
Buley, George L.	251
Burcham, Frank W.	408
Burke, John	66
Caidin, Martin	26
Chausse, Ron	195, 196, 197
Christy, Joe	91
Churchville, L. J.	134
Clark, Shirley	383
Cochran, Jacqueline	67
Cody, Samuel Franklin	56
Collier, Myron W.	310
Collins, R. L.	319
Combs, Harry B.	92
Conrad, Max	52

Individual

Item No.

Cook, LeRoy	187, 231, 269, 384
Cotton, Bill	270
Crane, Harold L.	198
Daiutolo, Hector	320
Dajani, Jarir S.	8
Davis, Benjamin O., Jr.	333
Dieker, Charles W.	263
Dodge, S. M.	234
Downie, Don	300, 301
Downing, Robert E.	159
Draper, John	318
Dwiggins, Don	27, 53
Earhart, Amelia	66, 68, 69, 76
Eggspuehler, Jack J.	329
Elwell, Russell C.	311
Enrich, Linn	188
Engel, Lyle Kenton	302
Fehner, E. Charles	401
Feldman, Joan M.	112, 113
Field, Hugh	80, 81, 114
Ford, G. E.	137
Forden, Lesley	19
Foxworth, Thomas G.	30
Francis, Devon Earl	95
Garvey, William	160, 161, 233, 273
Gault, Ross T.	174
Gilbert, Gordon	183, 403
Gilbert, James	31, 275
Gilfillan, Walter I.	257
Grangier, Marc	96, 116
Harkins, Edwin P.	139
Harvey, A. D'Arcy	24
Hayduk, R. J.	330
Hedrick, Frank E.	97
Helms, J. Lynn	12
Hoeckstra, Harold D.	321
Hoffsommer, Alan	162
Hollister, W. M.	234
Howard, Jean R.	70
Huang, Shung-Chai	321

Individual

Item No.

Humphreys, J. R.	98
Iseley, Bliss	99
Jablonski, Edward	33
Jacobson, Ira D.	409
Jerome, E. A. (Jerry)	322, 413
Johnson, Amy	64
Johnson, Jack	312
Jones, John Paul	276
Jose, Dwayne K.	140
Keith, Ronald A.	54
Kelly, Fred Charters	39, 55
Kent, David	100
Kershner, William K.	175
Kinert, Reed Charles	189
King, Jack L.	313
Kingsford-Smith, Charles Edward	34, 59
Kohlman, David L.	200, 211
Kurt, Franklin T.	277
Lancaster, Bill	50
Lauwick, Herve	71
Lear, Bill	51
Lee, Arthur Stanley Gould	56
Lehman, Charles A.	278
Lewis, Arnold	279, 280, 323
Lewis, David	201
Lindbergh, Anne Morrow	35
Lindbergh, Charles Augustus	57, 58, 60
Lyon, Jim	163
McCabe, Laurence E.	118
McConachie, Grant	54
McFarland, Marvin W.	49
McNally, Ward	59
Madayag, A. F.	325
Manningham, Dan	212, 281, 342
Mantz, Paul	53
May, Charles Paul	72
Means, James Howard	36
Miel, Charles R.	119
Miller, Francis Trevelyan	37
Mills, Stephen E.	38

<u>Individual</u>	<u>Item No.</u>
Moll, Niegel	84
Moseley, Leonard	60
Muhfeld, E. D.	73
Munley, Frank	120
Neuberger, Michael G.	164
Nichols, Ruth	74
Norris, Monty	302
Novello, Joseph R.	282, 283
Oetting, Robert B.	209
Parsens, Edward M.	239, 240, 241, 242
Paterson, Tom	142
Penny, Peter E.	243
Peterson, Houston	40
Phillips, James W.	38
Pickett, James A.	121
Piper, Robert Roy	390
Pugh, Francis L.	18
Putnam, Terrill W.	408
Reithmaier, Larry W.	304
Rice, Robert K.	209
Roberts, Ralph M.	391
Roberts, William	316
Rodgers, Slats	61
Roseberry, Cecil R.	41
Roskam, Jan	209, 211
Ross, J. C.	42
Rudolph, James F.	415
Rudrapatna, Ashok N.	409
St. Mark, Janet	122, 123
Santos-Dumont, Alberto	62
Satterfield, Archie	43
Saunders, George	212
Schiff, Barry	285
Schneider, C. E.	213, 416
Scott, Sheila	75
Silver, Brent W.	328
Sincoff, Michael Z.	8

IndividualItem No.

Smith, Murray	165
Snyder, R. G.	343
Somers, Robert	153
Stangarone, Robert	410
Stebbins, Clair	167
Stilwell, Hart	61
Strickler, Mervin K.	329
Strippel, Dick	76
Swan, W. M.	124
Sweazey, Robert W.	286
Taylor, Richard L.	304
Taylor, T.	176
Terpstra, James E.	287
Teseo, Rudy F.	288, 394
Thomson, R. G.	330
Trammell, Archie	154, 155, 168, 246, 289, 331, 345, 346, 347
Tuck, D. A.	332
Ulm, C. T. P.	34
Van Sickle, Neil D.	306
Vickers, Tiery C.	422
Villard, Henry Serrano	46
Vittek, Joseph F., Jr.	15
Ward, Robert B.	434
Warford, Jeremy J.	25
Waterman, H. E.	339
Welch, William A.	219
Wentz, William H., Jr.	220
Westfall, Judy A.	423
Whitcomb, Dr. Richard T.	136
Wiggin, Charles S.	47
Wild, Rolf H.	104, 222
Wilkerson, Jami	190
Williams, J. R.	293
Winblade, Roger L.	223, 423
Woodin, Rip	171
Wright, Orville	32, 39, 44, 48, 55
Wright, Wilbur	32, 39, 44, 49, 55
Wykeham, Peter	62
Youssef, Zakhour I.	282, 283

INDEX: CORPORATE SOURCE

<u>Source</u>	<u>Item No.</u>
Aero Products Research, Inc.	294
Aircraft Charter and Rental Tariff Information Service	106
Aircraft Owners and Pilots Association	1, 295
American Institute of Aeronautics and Astronautics	18, 210, 223, 332
Aviation Consumer Action Project	120
Aviation Data Service, Inc.	372, 435
Battelle Memorial Institute	193, 373-380
Bolt, Beranek and Newman	397, 399
Brookings Institution	25
Burns and McDonnell Engineering Co.	252-255
Cessna Aircraft Co.	299
Commuter Airline Association of America	109
Flight Safety Foundation	135, 321
General Aviation Manufacturers Association	7, 11, 16, 264, 392, 436
General Aviation Operations Research, Inc.	256
Hamilton Standard	199
Hydrospace-Challenger, Inc.	404
Hydrospace Research Corp.	405
Jeppesen and Co.	3
Little, Arthur D., Inc.	14
Lockheed-California Co.	324
Massachusetts Institute of Technology, Flight Transportation Laboratory	15, 235
Namarc, Inc.	438
National Business Aircraft Association	135
National Industrial Conference Board	139
North Carolina State University	203
Ohio State University Research Foundation	204
Old Dominion University Research Foundation	8

<u>Source</u>	<u>Item No.</u>
Opinion Research Corporation	16
Optimum Computer Systems, Inc.	17
Princeton University	205-208, 326
Sanborn Aviation Associates, Inc.	19
Society of Automotive Engineers	140, 198, 220, 251, 316, 320, 325, 330, 339, 343, 403, 408, 409, 423
Speas (R. Dixon) Associates	392
Systems Consultants, Inc.	427, 428, 439
Texas A&M Research Foundation	214
U.S. Army Air Mobility R&D Laboratory	248
U.S. Aviation Advisory Commission	20, 429
U.S. Civil Aeronautics Authority	45
U.S. Civil Aeronautics Board	440
U.S. Congress. House. Committee on Science and Aeronautics	419
U.S. Department of Transportation	13, 14, 333, 395
U.S. Federal Aviation Administration	17, 21-24, 102, 127, 138, 170, 177-183, 205-208, 214, 215, 247, 256, 259-262, 267, 292, 305, 326, 334, 335, 377-380, 397, 399, 404, 405, 427, 428, 430-432, 435, 439, 441-450
Civil Aeromedical Institute	170, 290, 348, 349
National Aviation Facilities Experimental Center	292, 335
U.S. General Accounting Office	420, 421
U.S. National Aeronautics and Space Administration	13, 14, 15, 193, 199, 203, 221
Ames Research Center	216, 248
Langley Research Center	217, 218, 249, 291
U.S. National Transportation Safety Board	128, 337, 338, 350-359
University of Tennessee Space Institute	138
Waldo and Edwards, Inc.	129
Wichita State University	221