United States
Environmental Protection
Agency

Office of Noise
Abatement and Control
Washington, DC 20460

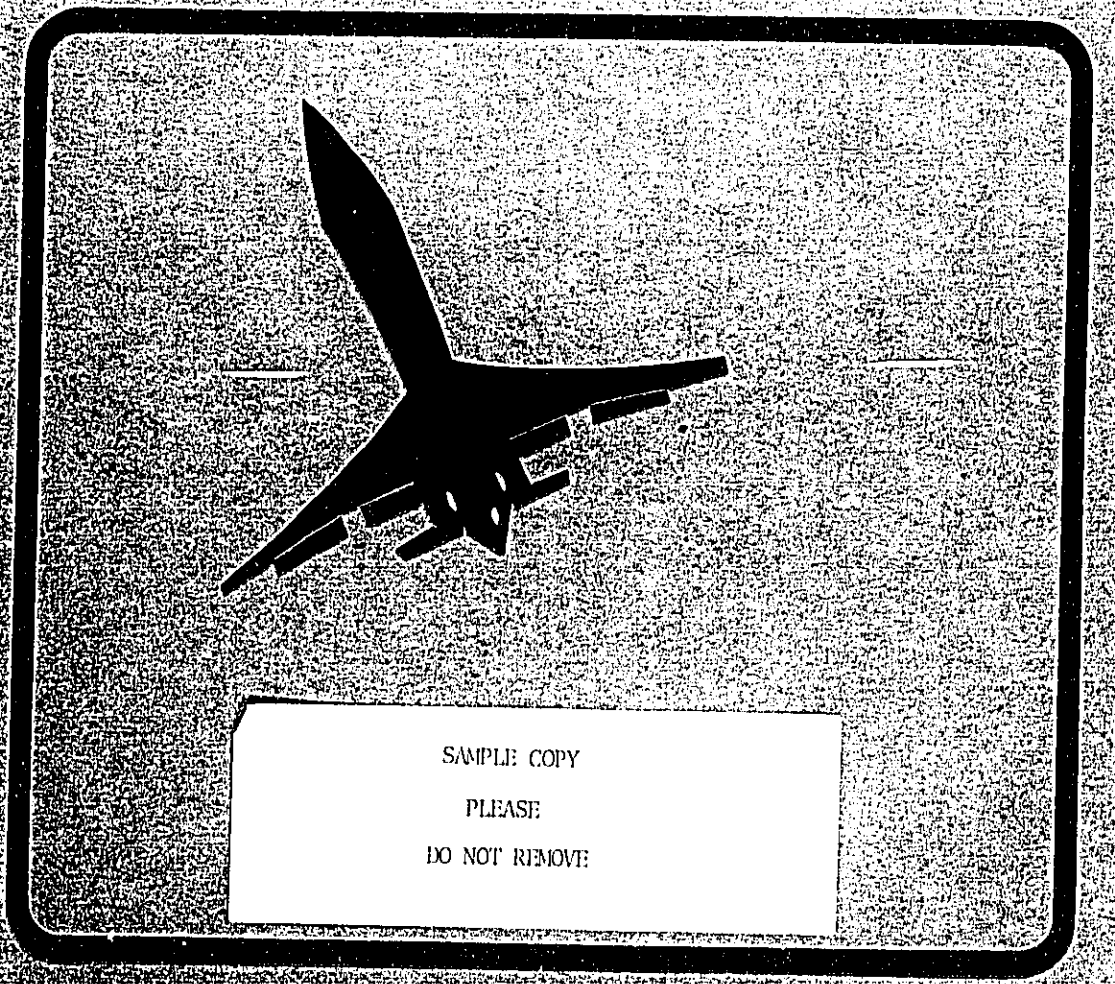
EPA 550/9-79-313-2
February 1979

Noise

EPA

Noise Exposure of Civil Aircarrier Airplanes Through the Year 2000

Volume II: Appendices A through F



N-96-01
II-A-102

EPA 550/9-79-313-2

NOISE EXPOSURE OF CIVIL AIRCARRIER AIRPLANES THROUGH THE YEAR 2000

Volume II: Appendices A through F

FEBRUARY 1979

Prepared For:

U.S. Environmental Protection Agency
Office of Noise Abatement and Control

Under Contract No. 68-01-3514

LIST OF APPENDICES

Appendix A	List of Airports by Class
Appendix B	Fleet Forecast Methods
Appendix C	Aircraft Noise Data
Appendix D	Aircraft Performance Data
Appendix E	Supersonic Aircraft Noise Exposure
Appendix F	Detailed Results of Scenario Analyses at the AVports and Extrapolations to National Estimates

APPENDIX A

List of Airports by Class

This appendix is a list of the nation's aircarrier airports with greater than 10 jet departures per year. The airports are listed by state (without the state being specified) for each AVport category. The classification of the airports was based on 1975/1976 operational data.

List of Airports in Categories A and B

Category A	Category B	
Anchorage International *	Birmingham Municipal	Ft. Lauderdale-Hollywood International
Los Angeles International *	Huntsville/Decatur	Orlando (McCoy AFB)
San Francisco International*	Cordova - Mile 13	Tampa/St. Petersburg
Washington, D.C. (Dulles)*	Fairbanks International	Palm Beach International
Miami International *	Juneau Municipal	Atlanta (William B. Hartsfield International)*
Honolulu International *	Ketchikan W. SPB	Augusta
Chicago (O'Hare)*	Kodiak NS/Inner Harbor SPB	Savannah Municipal
Boston International *	Yakutat	Hilo (General Lyman Field)
New York (Kennedy)*	Phoenix Sky Harbor*	Boise Air Terminal/ Gowen Field
Philadelphia International *	Tucson International	Moline
Dallas-Ft. Worth *	Fort Smith	Evansville Dress Regional
Houston Intercontinental *	Little Rock	Fort Wayne Municipal/ Baer Field
Seattle-Tacoma *	Fresno Air Terminal	Indianapolis Municipal/ Weir Cook
	Ontario International	South Bend
	Palm Springs	Cedar Rapids Municipal
	Sacramento Metro	Des Moines Municipal
	Salinas/Monterey	Wichita Municipal
	San Diego International*	Greater Cincinnati
	Oakland Metro International	Louisville (Standiford)
	San Jose Municipal	New Orleans International*
	Stockton	Shreveport Regional
	Colorado Springs	Bangor International
	Denver (Stapleton)*	Baltimore/Washington International
	Grand Junction	Detroit Metropolitan/ Wayne Co.
	Bradley International	
	Fort Myers (Page Field)	
	Jacksonville	

*Asterisk indicates that airport was used in population model development for the AVport (see Section 3.6 of the text).

List of Airports in Category B - Continued

Category B		
Flint (Bishop)	Fargo (Hector Field)	Salt Lake City International
Grand Rapids	Grand Forks International	Newport News
Lansing	Akron/Canton Regional	Norfolk Regional
Saginaw Tri-City	Cleveland (Hopkins)*	Richmond (Byrd Intl.)
Minneapolis/St. Paul International*	Columbus International	Spokane International
Rochester Municipal	Dayton Municipal	Madison
Jackson (Thompson Field)	Toledo Express	Milwaukee (Mitchell Field)
Kansas City International	Youngstown	Casper
Lambert-St. Louis International*	Oklahoma City (Will Rogers)	Cheyenne
Billings	Tulsa International	
Butte	Medford/Jackson	
Great Falls International	Portland International*	
Lincoln, Municipal	Harrisburg (Olmsted State)	
Omaha	Greater Pittsburgh	
Las Vegas (McCarran)	Providence	
Reno International	Charleston AFB/Municipal	
Newark International*	Columbia Metropolitan	
Albuquerque Sunport/ Kirtland AFB	Sioux Falls	
Buffalo International*	Chattanooga	
Rochester-Monroe Co.	Knoxville (McGhee Tyson)	
Syracuse (Hancock)	Memphis International	
Charlotte (Douglas)	Nashville Metropolitan	
Greensboro Regional	Amarillo Air Terminal	
Raleigh-Durham	Austin	
Bismark	El Paso International	
	Lubbock	
	Midland	
	San Antonio International	

List of Airports in Category C

Dothan Municipal	El Centro	Kahului	Lake Charles Munic.
Mobile/Pascagoula	Eureka/Arcata	Kailua-Kona	Monroe Munic.
Montgomery	Hollywood-Burbank	Kamuela	Portland Int'l Jetport
Muscle Shoals	Long Beach	Lanai	Presque Isle Munic.
Tuscaloosa	Merced Municipal	Lihue	Bedford
Aniac	Modesto City-Co.	Idaho Falls	Beverly Munic.
Barrow (Wiley Post/ Will Rogers Memorial)	Redding Municipal	Lewiston-Nez Perce	Worcester Munic.
Bethel	Santa Ana	Pocatello Munic.	Detroit (Willow Run)
Deadhorse	Santa Barbara	Twin Falls	Escanaba Munic.
Dillingham Municipal	Santa Maria Public	Alton Civic Memorial	Hancock/Houghton
Galbraith Lake	South Lake Tahoe	Champaign	Iron Mountain/Kingsfield
Galena	Visalia Municipal	Chicago (Midway)	Marquette Co.
Gustavus	Pueblo Memorial	Decatur	Muskegan Co.
King Salmon	Tweed-New Haven	Greater Peoria	Pellston
Kotzebue	Greater Wilmington	Greater Rockford	Pontiac
McGrath	Washington, D.C. *	Springfield	Traverse City
Nome	Daytona Beach	Lafayette (Purdue Univ.)	Chisholm-Hibbing
St. Mary's	Eglin AFB	Burlington	Duluth International
Sitka	Gainesville Munic.	Dubuque Munic.	International Falls
Unalaklett	Melbourne	Fort Dodge	Columbus
Grand Canyon National Park	Panama City-Bay Co.	Mason City	Greenville Munic.
Yuma MCAS/Yuma International	Pensacola	Sioux City Munic.	Gulfport Munic.
Hot Springs	Sarasota/Bradenton	Waterloo Munic.	Laurel/Hattiesburg
Texarkana Municipal (Webb Field)	Tallahassee Munic.	Lexington	Meridian Key
Bakersfield	Albany-Dougherty Co.	Paducah	Columbia Regional
Chico Municipal	Columbus Metro	Alexandria	Joplin Munic.
	Macon	Baton Rouge	Lake of the Ozarks
	Valdosta	Lafayette	Springfield Munic.
	Molokai		

List of Airports in Category C - Continued

Bozeman	Bend	Mission/McAllen/etc.
Helena	Eugene	San Angelo
Kalispell	Klamath Falls	Sheppard AFB/Wichita Falls Air Terminal
Missoula	Pendleton Munic.	Burlington Intl.
Yellowstone	Salem (McNary Field)	Charlottesville-Albermarle
Grand Island Air Park	Allentown-Bethlehem-Easton	Lynchburg Munic./ Preston Glenn Field
Atlantic City	Bradford Regional	Roanoke Munic.
Trenton	Erie Intl.	Pasco Tri Cities
Manchester	Wilkes-Barre-Scranton	Yakima Munic.
Roswell	Williamsport-Lycoming Co.	Huntington
Albany Co.	Florence Munic.	Charleston
Broome Co.	Greenville-Spartanburg	Eau Claire Munic.
Elmira	Myrtle Beach AFB	Green Bay/etc.
Islip-McArthur	Aberdeen Munic.	LaCross Munic.
Ithaca (Tompkins Co.)	Pierre Munic.	Oshkosh (Wittman Field)
New York (La Guardia)*	Rapid City Regional	Rhinelander
Utica	Watertown Munic.	Wausau
White Plains	Bristol Tri City	
Asheville Munic.	Jackson	
Fayetteville Munic./ Grannis Field	Abilene Munic.	
Winston-Salem (Smith-Reynolds)	Beaumont Port Arthur	
Jacksonville	Harlingen	
Kinston	Brownsville Intl.	
New Hanover Co.	Corpus Christi Intl.	
Jamestown Munic.	Laredo Intl.	
Minot International		
Mansfield Lahm Munic		
Lawton Municipal		

APPENDIX B

Fleet Forecast Methods

This appendix contains descriptions of the procedures used to develop the fleet projections for this study. Two procedures, one for the moderate growth scenario and one for the expansive growth scenario, were necessary because a different data source was used as the basis for each projection. These two procedures are presented separately. Superscripts used and references specified in the text of this appendix refer to references which are listed in the Reference Section of Volume I of this report.

A) FAR Part 36 EIS Case (Moderate Growth)

The fleet size projections for the moderate growth scenario were based on the FAR Part 36 EIS, Case 3 fleet projections.[1] The following is a description of the procedure used to develop the detailed fleet projections for this study. A sample calculation for one aircraft type is outlined in Table B-1 and discussed below.

1. The numbers of aircraft that meet the FAR Part 36 rule or better are taken directly from the EIS and are shown in line 1 of Table B-1.

2. Line 2 represents actual aircraft in service in 1975 that comply with 1969 noise regulations. Note that in 1995, only 1/2 of these aircraft are still in service and in 2000, have all been retired from the fleet.

3. New production aircraft after 1975 are found by subtracting line 2 from line 1.

4. Of the new production aircraft, all planes coming into the fleet from 1975 through 1980 are assumed to meet the 1969 rule. These aircraft remain in service until 2000 (2-engine Narrow Body aircraft are an exception, explained later).

5. The new production aircraft coming into service after 1985, line 3 and line 4, are assumed to be produced by three manufacturers, X, Y, and Z. A 6-year lag is assumed between certification date and introduction into the fleet.* Manufacturer X starts production in 1985, Y in 1990, and Z in 1995. In each year, production is split equally between the producing manufacturers. Each manufacturer makes only a single technology level aircraft for all production years corresponding to the assumed certification date. Line 5 indicates how the new production aircraft are appointed to the three manufacturers.

6. The "current non-comply" aircraft shown in line 6 are those that did not meet 1969 FAR Part 36 requirements in 1975. These numbers are based directly on the information in Reference 1. While these aircraft are listed in the "non-comply" row, this is for accounting purposes only. All jet aircraft used in this study were assumed to at least comply with the 1969 FAR 36 requirements prior to the year 1985 (i.e., they were modified to comply). In this case, these modified aircraft remained in the fleet through the year 2000.

*Since the fleet projections are shown in 5-year increments, this 6-year lag appears as a 10-year lag in the fleet schedule.

Table B-1

Assignment of Technology Levels to 747 Class of Aircraft (Moderate Growth of Fleet)

			Year											
			1975	1980	1985	1990		1995			2000			
①	Total Number of Aircraft That Meet 1969 Rule or Better		51	85	155	225		400			575			
②	Aircraft In Service in 1975 That Meet 1969 Rule		51	51	51	51		25			0			
③	Total New Production Aircraft Meeting 1969 Rule or Better			34	104	174		375			575			
④	New Production Aircraft Meeting 1969 Rule			34	34	34		34			34			
	Year Produced				85	85	90	85	90	95	85	90	95	2000
⑤	New Production Aircraft Meeting 1975 Rule or Better	Manufacturer X			70	70	35	70	35	67	70	35	67	67
		Manufacturer Y					35		35	67		35	67	67
		Manufacturer Z								67			67	66
	Total Aircraft Meeting 1975 Rule				70	105		172			239			
	Total Aircraft Meeting 1980 Rule					35		102			169			
	Total Aircraft Meeting 1985 Rule							67			133			
⑥	Current Non-Comply		45	45	45	45 *		45 *			45 *			

*Modified to comply with 1969 FAR 36 Rule.

Special Considerations

- "New Technology" aircraft shown in Reference 1 are assumed to be 3-engine narrow body new type designs.
- For the Boeing 727 aircraft, the calculation procedure outlined above produced an anomaly in that the growth aircraft did not increase monotonically from year to year. To correct this, aircraft were transferred to the 727 new production category from the "new technology" category for 1985 and 1990 only, making the growth linear for the 727.

Production Schedule Assumptions for "New Production" Aircraft

The following describes the assumed time schedule for bringing new production aircraft into the fleet and assigning a technology level to the aircraft produced in various production years.

2-engine Narrow Body

1. In 1980, 25 of the new production 2-engine narrow body aircraft are assumed to meet the 1975 noise rules.
2. In 1985 a second manufacturer enters the 2-engine narrow body market with new technology and a third manufacturer enters this market in 1990.

All Aircraft Except 2-engine Narrow Body

1. New production from 1975 through 1980 for all aircraft except 2-engine narrow body is assumed to be of current type aircraft technology.
2. New production from 1980 through 1985 is assumed to come from manufacturer X.
3. From 1985 through 1990, new production aircraft are assumed to be produced in equal numbers by two manufacturers, X and Y.
4. Additional planes from 1990 through 2000 are assumed to be produced in equal numbers by three manufacturers, X, Y, and Z.

Figure B-1 illustrates this procedure.

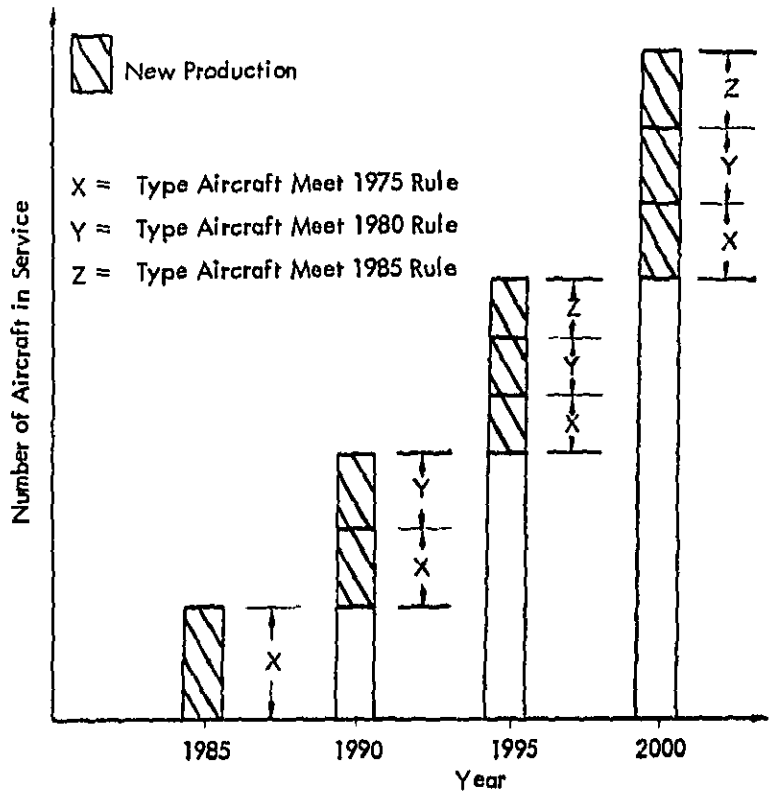


Figure B-1. Technology Level Assignment for New Production Aircraft

B) Aviation Futures – Scenario #5 (Expansive Growth)

General Procedure

The fleet size for the expansive growth case was estimated using the following procedure.

- Find the total fleet size in each year from "Aviation Futures." [2]
- Distribute these planes to general classes of aircraft based on the percentages in "Aviation Futures."
- Determine the details regarding the relative numbers of pre-1976 aircraft using the FAR Part 36 EIS [1] as guidance.

The total national fleet size was obtained from the caption below the "Air Carrier Fleet Mix" chart presented in Reference 2. However, the number of aircraft in 1975 was obtained from the Aircraft Census.[5] The 1970 figures for fleet mix from Reference 2 were ignored. Fleet sizes for intermediate years not specified in Reference 2 were estimated by assuming exponential growth from 1975 to 1985 and from 1985 to 2000.

The number of aircraft in each type was determined by multiplying the number of aircraft in the fleet by the percent of aircraft in each category.

Once the total number of aircraft of each aircraft type had been established, the number of aircraft complying with each of the noise rules within each class aircraft was determined by a procedure similar to the method used for the EIS moderate growth scenario.

Sample Calculation

The details of this fleet projection method will be illustrated by a sample calculation for the 747 class of aircraft.

		Year					
		1975	1980	1985	1990	1995	2000
(1)	Total Aircraft	96	225	350	488	612	767
(2)	EIS Line M+N	45	45	45 *	45 *	45 *	45 *
(3)	(1) - (2)	51	180	305	443	567	722
(4)	Existing Aircraft That Comply in 1975	51	51	51	51	25	0
(5)	New Production (4) - (5)	0	129	254	392	542	722

*All have been modified to comply with 1969 FAR 36.

1. The total number of aircraft in the fleet was obtained from References 2 and 5.
2. The number of aircraft shown in line 2 was assumed to be the sum of the "modified to comply" and "non-comply" categories in Case 3 of Reference 1.
3. The number of aircraft listed in line 3 was found by subtracting line 2 from line 1. These include both existing and new production aircraft.
4. The number of aircraft that complied with 1969 FAR 36 regulations in 1975 is shown in line 4. The retirement of these aircraft in 1995 and 2000 was an assumption made for this study.

5. The new production aircraft, line 3 minus line 4, are shown in line 5.

6. New production aircraft were assigned various technology levels by using the same technique that was used for the EIS moderate growth scenario.

Special Considerations

- For 4-engine narrow body aircraft, the number of aircraft was taken directly from Case 3, Reference 1. None of these were in the fleet after 1985.
- The 2-engine and 3-engine wide body aircraft were grouped together in one class. EIS data for DC-10/L1011 were used to represent this class.
- The 2-engine and 3-engine narrow body class identified in Reference 2 was broken down for this study into 2-engine narrow body, 3-engine narrow body and new technology 3-engine narrow body aircraft.

The following outlines how aircraft in the 2- and 3-engine narrow body class, defined in Reference 2, were divided among the various technologies of 2- and 3-engine aircraft and "new technology" aircraft defined for the AVport models.

1. First, the total number of 2- and 3-engine narrow bodies was determined from Reference 2.
2. Next, the numbers of 727 (M + N), 737 (M + N) and new technology listed in Reference 1 were used to define the sum of the number of non-complying and modified to comply aircraft in each year (for 727 and 737) and the number of new type design 3-engine aircraft. "M" refers to the EIS category "modified to comply" and "N" refers to "non-comply" aircraft.
3. The numbers of non-complying/modified to comply aircraft (line 2) were subtracted from the total number of aircraft (line 1) to obtain the number of complying aircraft. Complying aircraft were those which were produced to meet 1969 FAR Part 36 rules or better. This number of aircraft was then distributed to the 727 and 737 categories.
4. The method of apportioning these complying aircraft is illustrated in Table B-2.

Table B-2

Illustration of 727/737 Apportionment Method
(Expansive Growth, 1985)

Total Aircraft

2-/3-engine Narrow Body Aircraft* . . 1984

Subtract

B-727 (M + N)† 397

B-737 (M + N)† 426

New Technology Aircraft† 435

Remaining Aircraft to be Apportioned . . 726 = R

Relative Number of 727 Comply	Relative Number of 737 Comply
EIS (Total) − EIS (M+N) = 731 − 397 = 334 = a	EIS (Total) − EIS (M+N) = 1049 − 426 = 623 = b
Fraction of Complying Aircraft that are 727's	Fraction of Complying Aircraft that are 737's
$\frac{a}{a+b} = .349 = C_1$	$\frac{b}{a+b} = .651 = C_2$
Apportioned Total of Complying 727's	Apportioned Total of Complying 737's
$C_1 \times R = 253$	$C_2 \times R = 473$

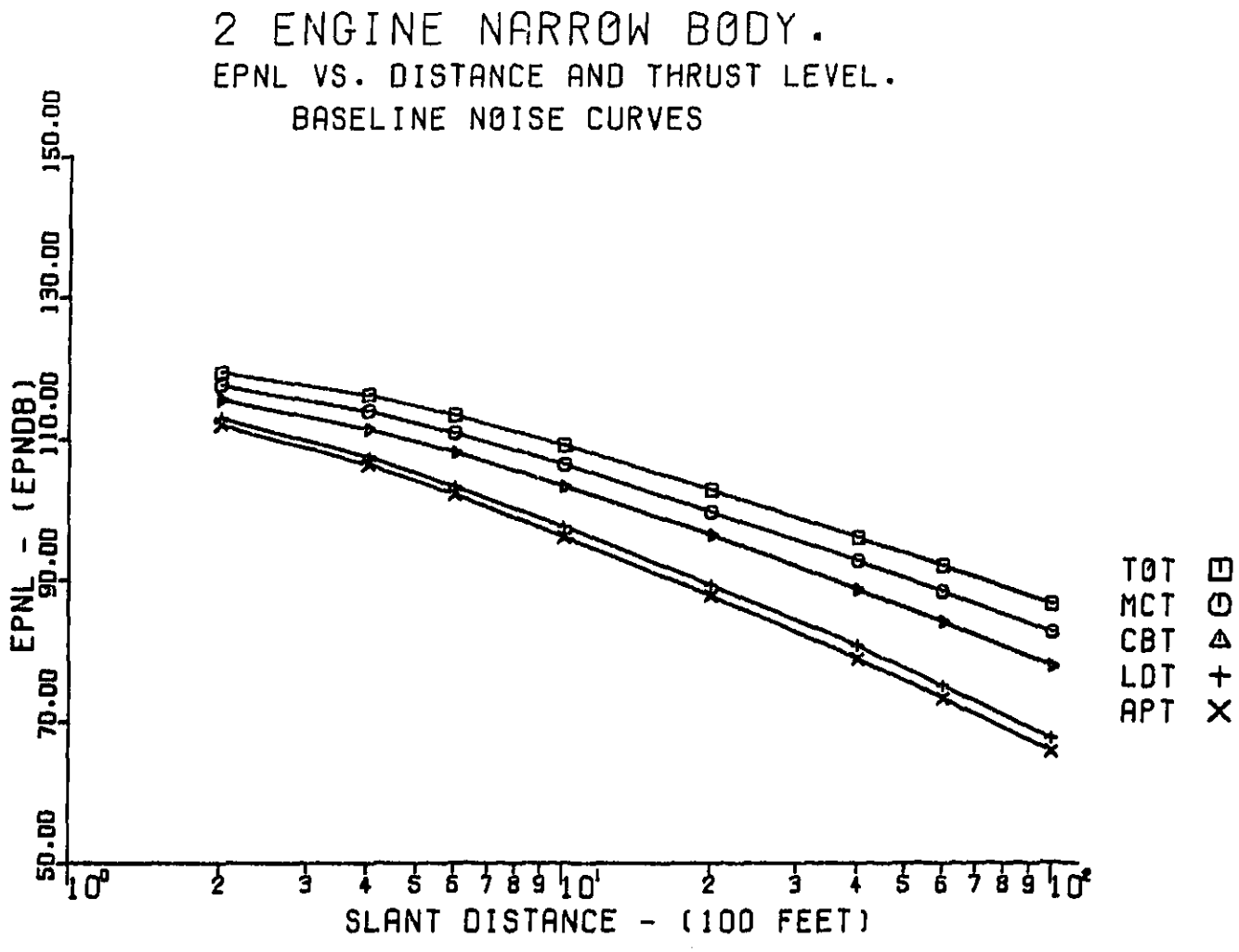
* - From Aviation Futures, Reference 2
† - From Far Part 36 Environmental Impact Statement (EIS), Reference 1
M - EIS "Modified to Comply" Category
N - EIS "Non-Comply" Category

APPENDIX C

Aircraft Noise Data

The following 25 graphs illustrate the noise characteristics assumed for each aircraft classification and the following conditions:

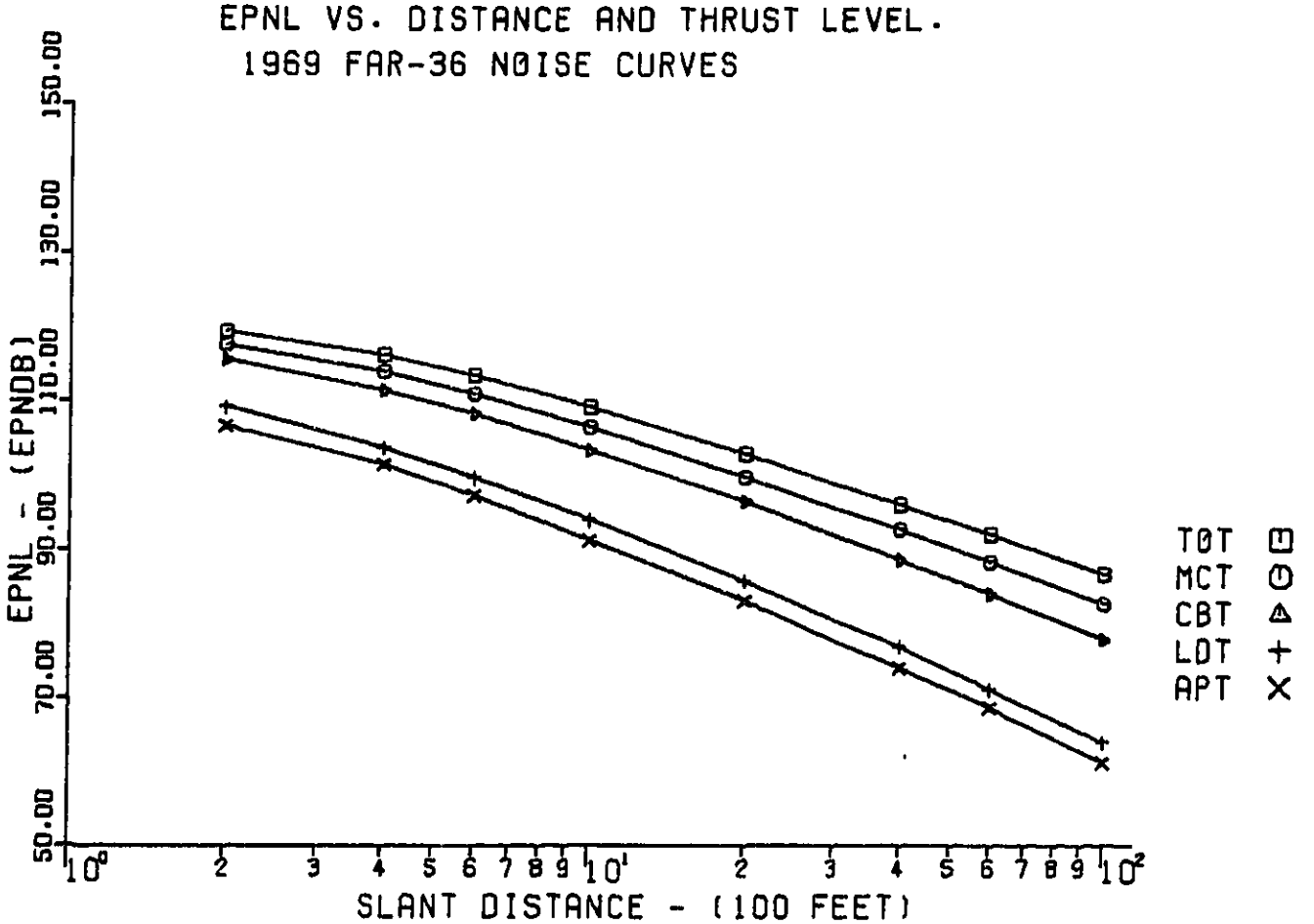
- Actual Noise Levels (labeled "Baseline Noise Curves")
- 1969 FAR 36 Compliance Levels
- 1975 FAR 36 Compliance Levels
- 1980 FAR 36 Compliance Levels
- 1985 FAR 36 Compliance Levels


2 ENGINE NARR0W B0DY.
EPNL VS. DISTANCE AND THRUST LEVEL.
BASELINE N0ISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
T0T
MCT
CBT
LDT
APT

2 ENGINE NARR0W B0DY.

EPNL VS. DISTANCE AND THRUST LEVEL.

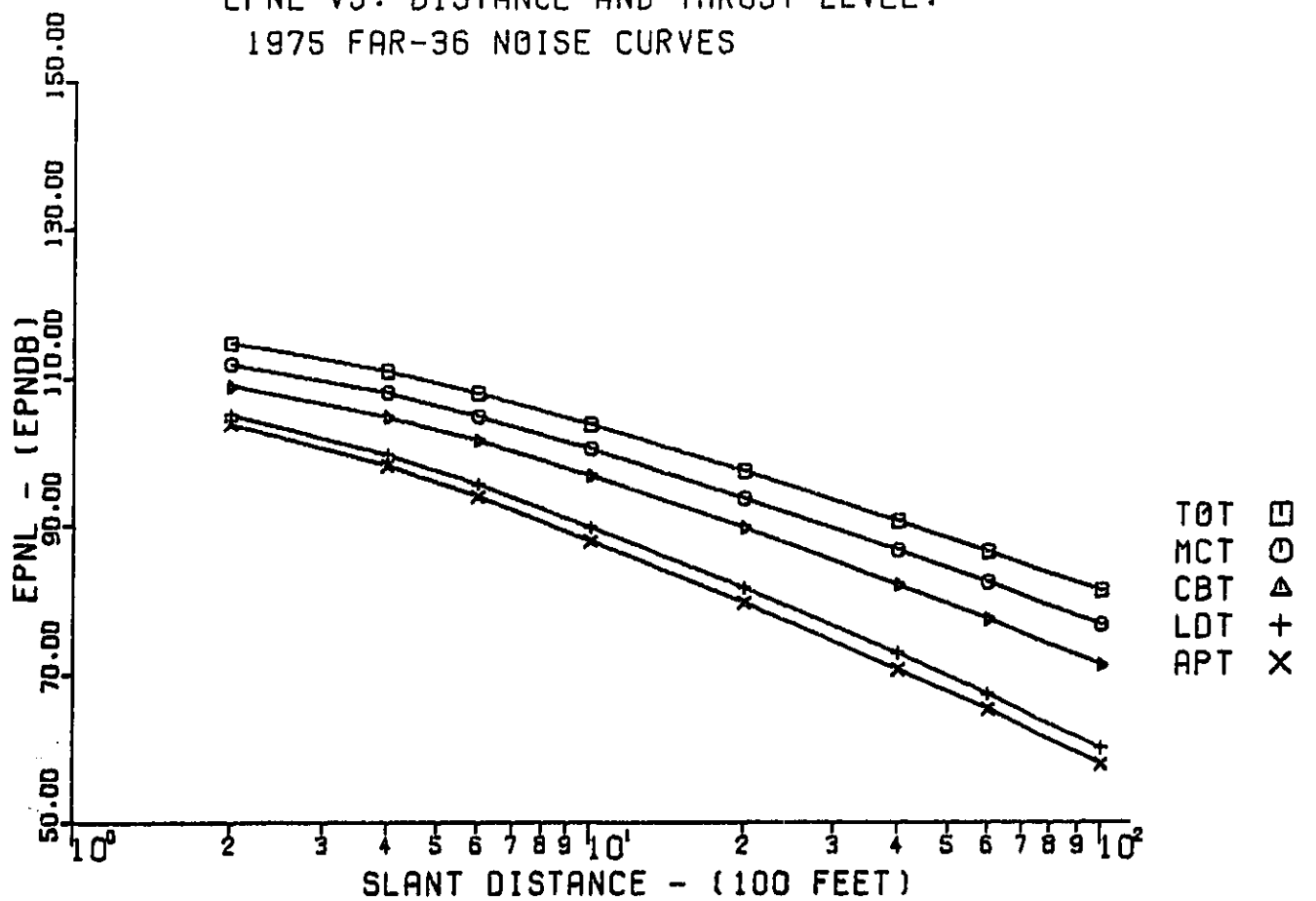
1969 FAR-36 N0ISE CURVES



2 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

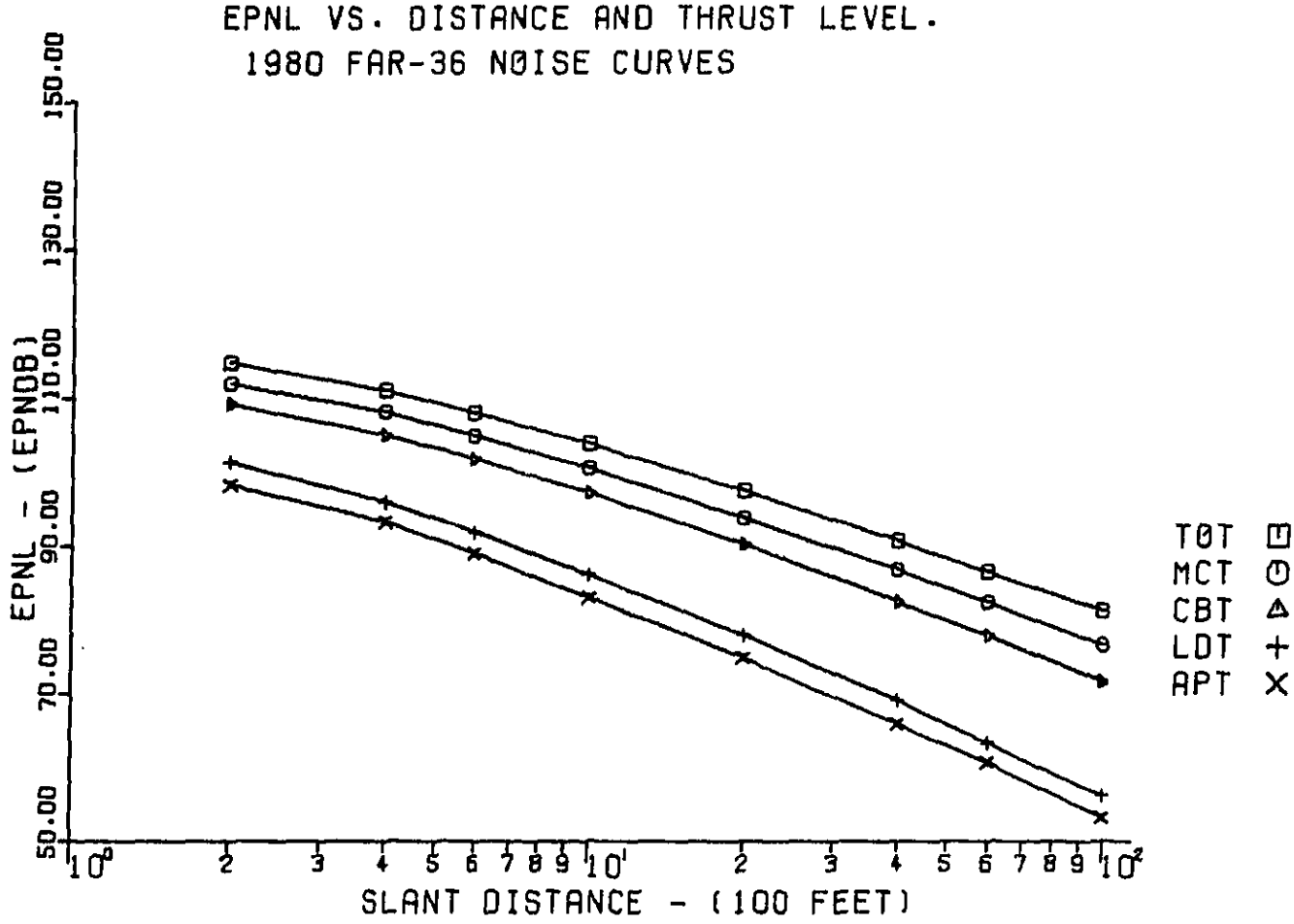
1975 FAR-36 NOISE CURVES



2 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

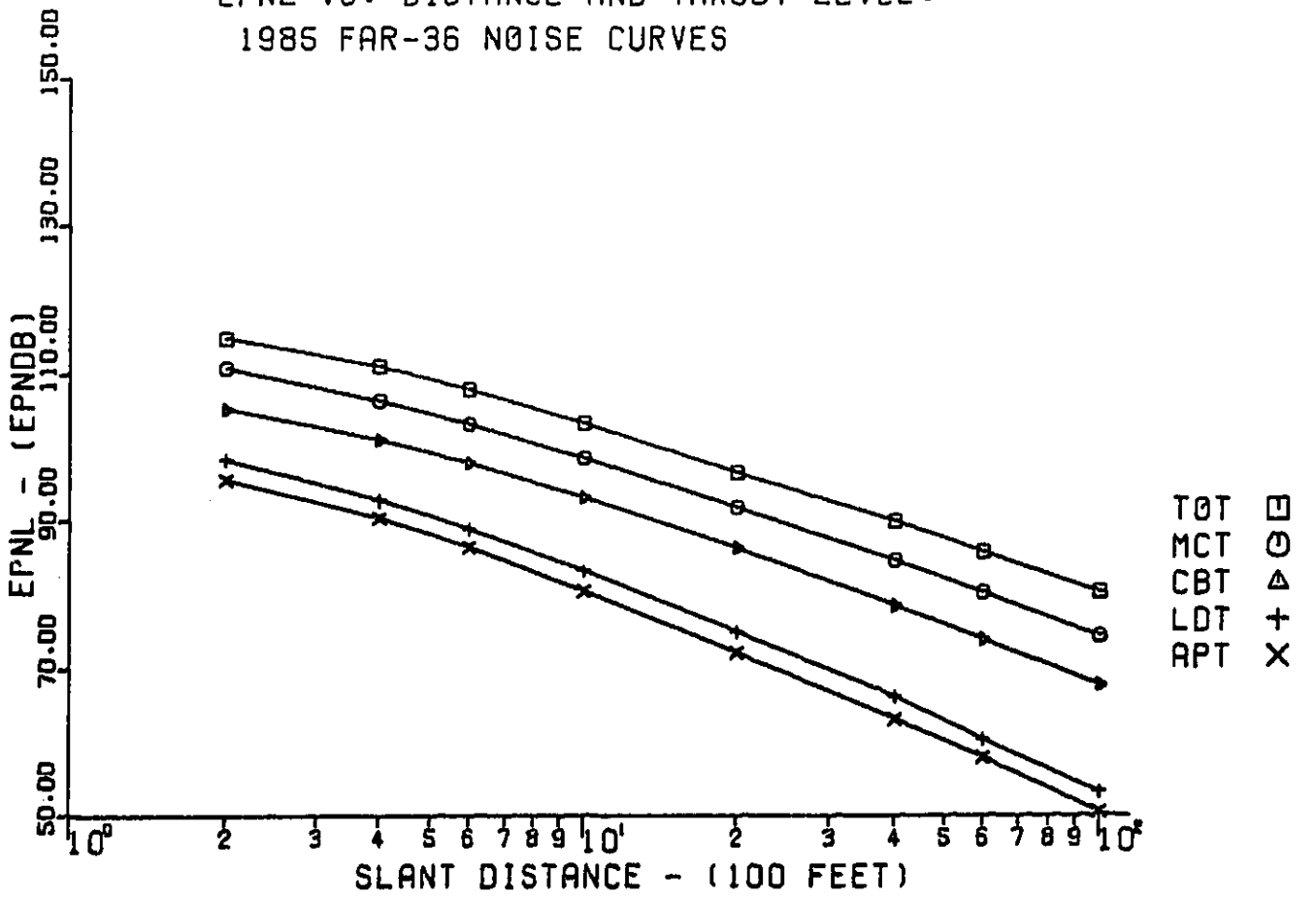
1980 FAR-36 NOISE CURVES



2 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

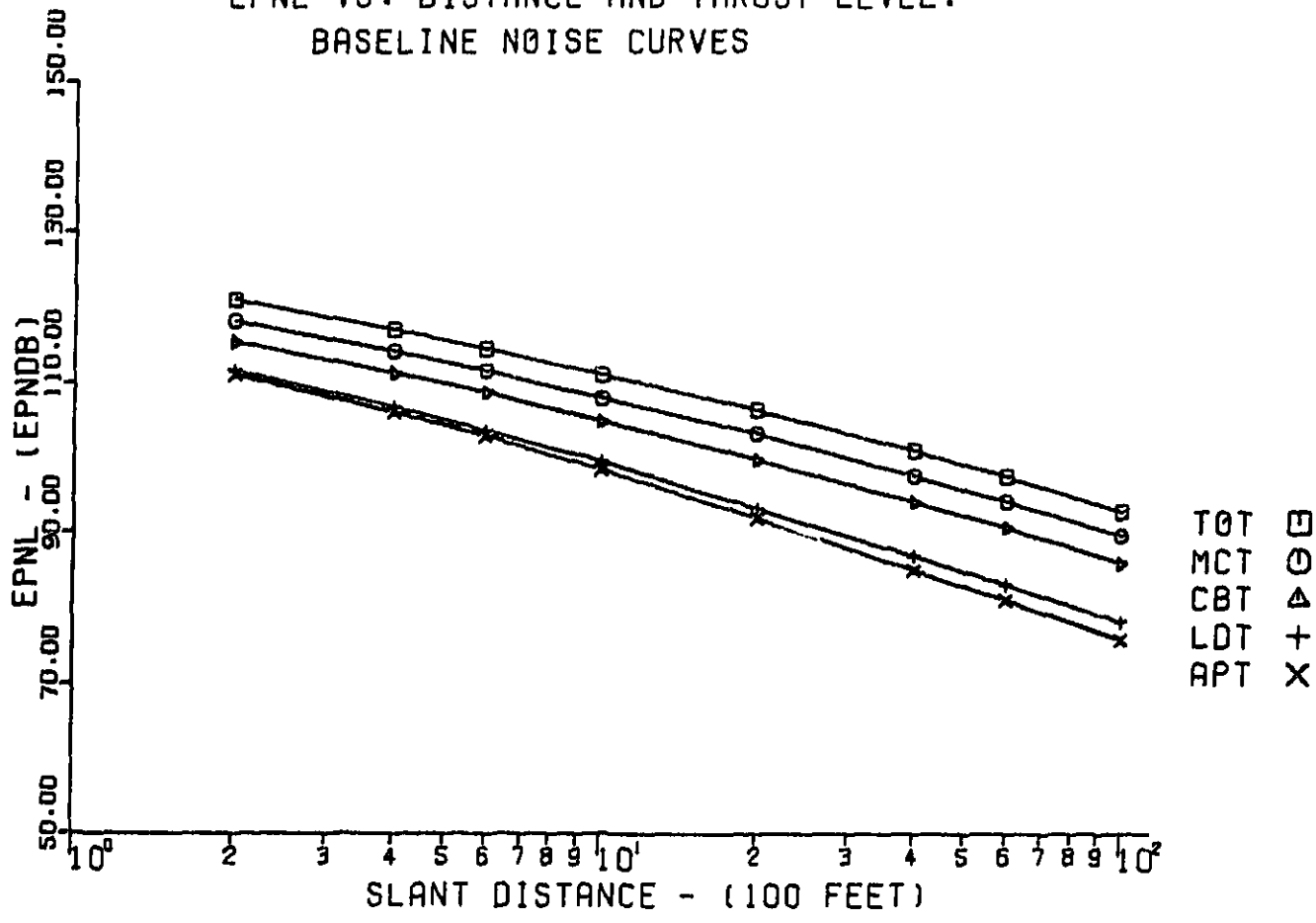
1985 FAR-36 NOISE CURVES



3 ENGINE NARR0W B0DY.

EPNL VS. DISTANCE AND THRUST LEVEL.

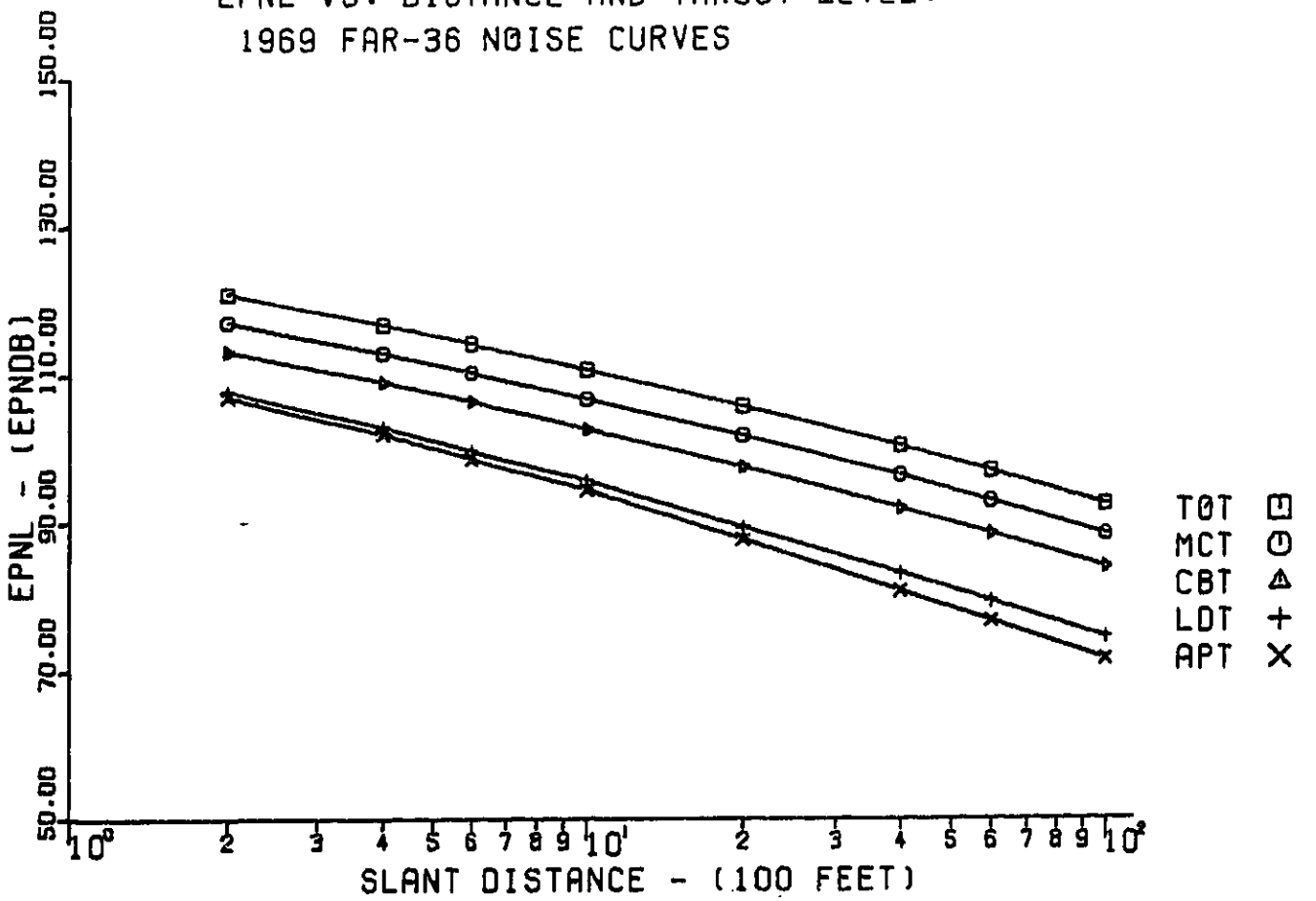
BASELINE N0ISE CURVES



3 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

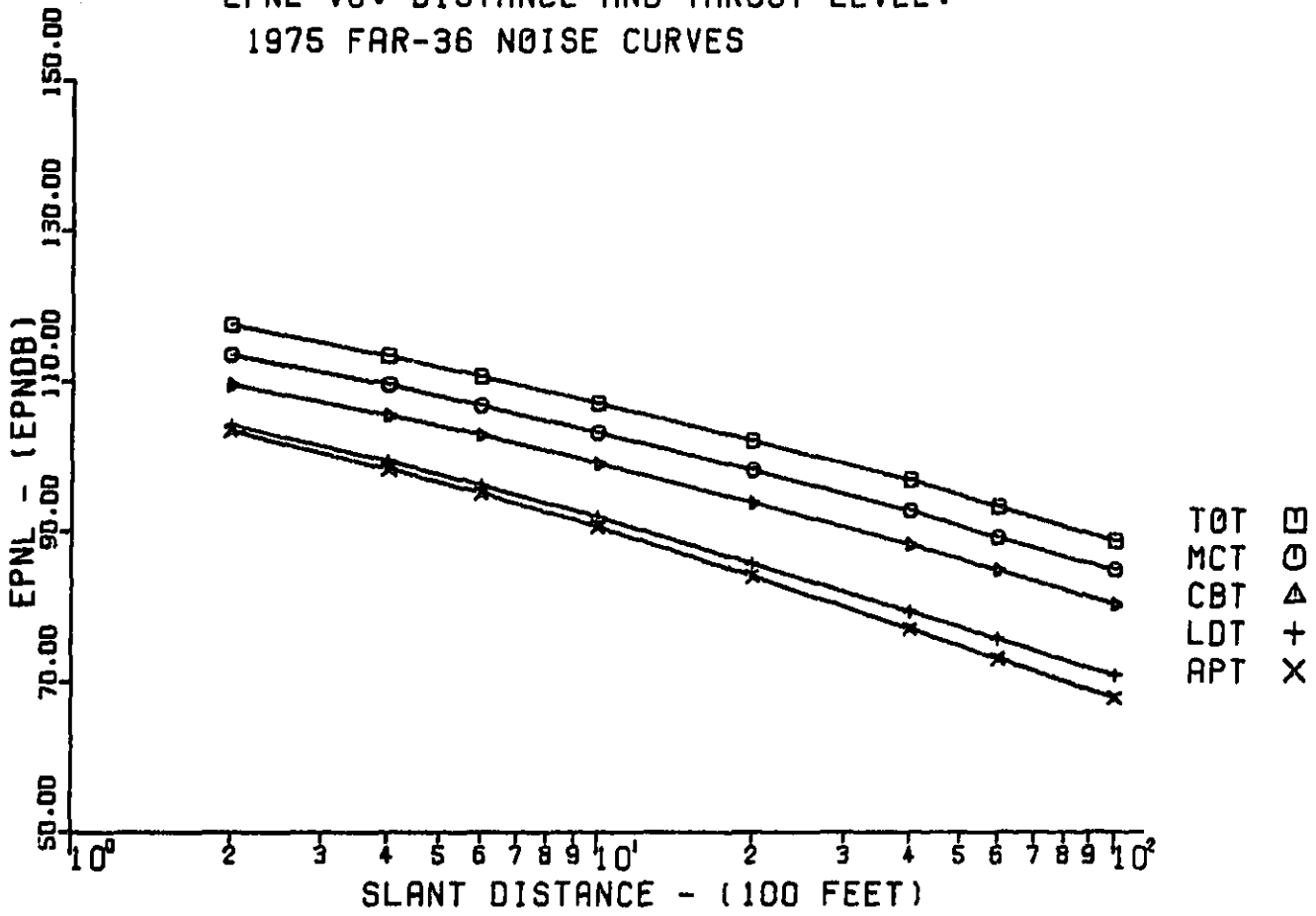
1969 FAR-36 NOISE CURVES



3 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

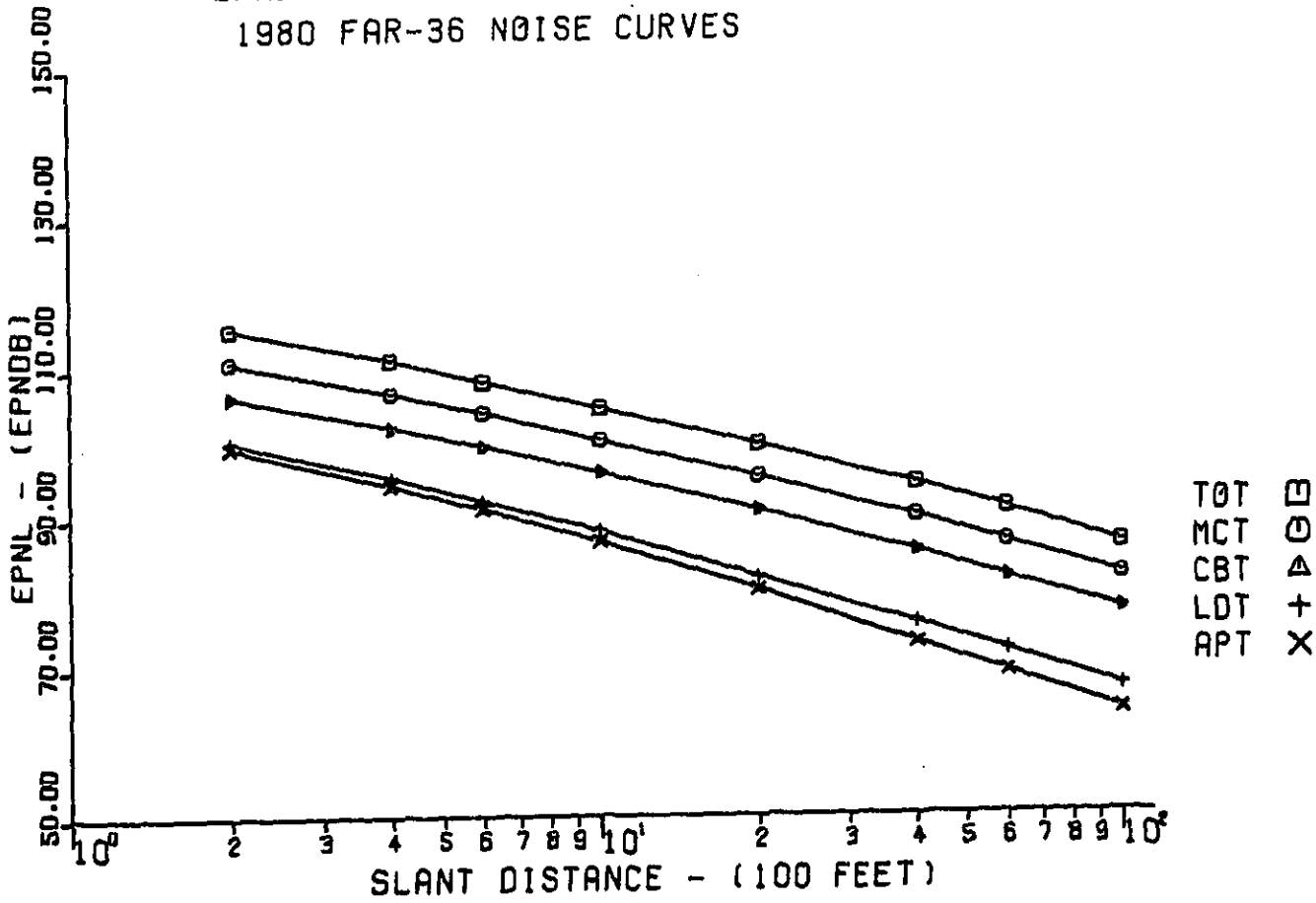
1975 FAR-36 NOISE CURVES



3 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

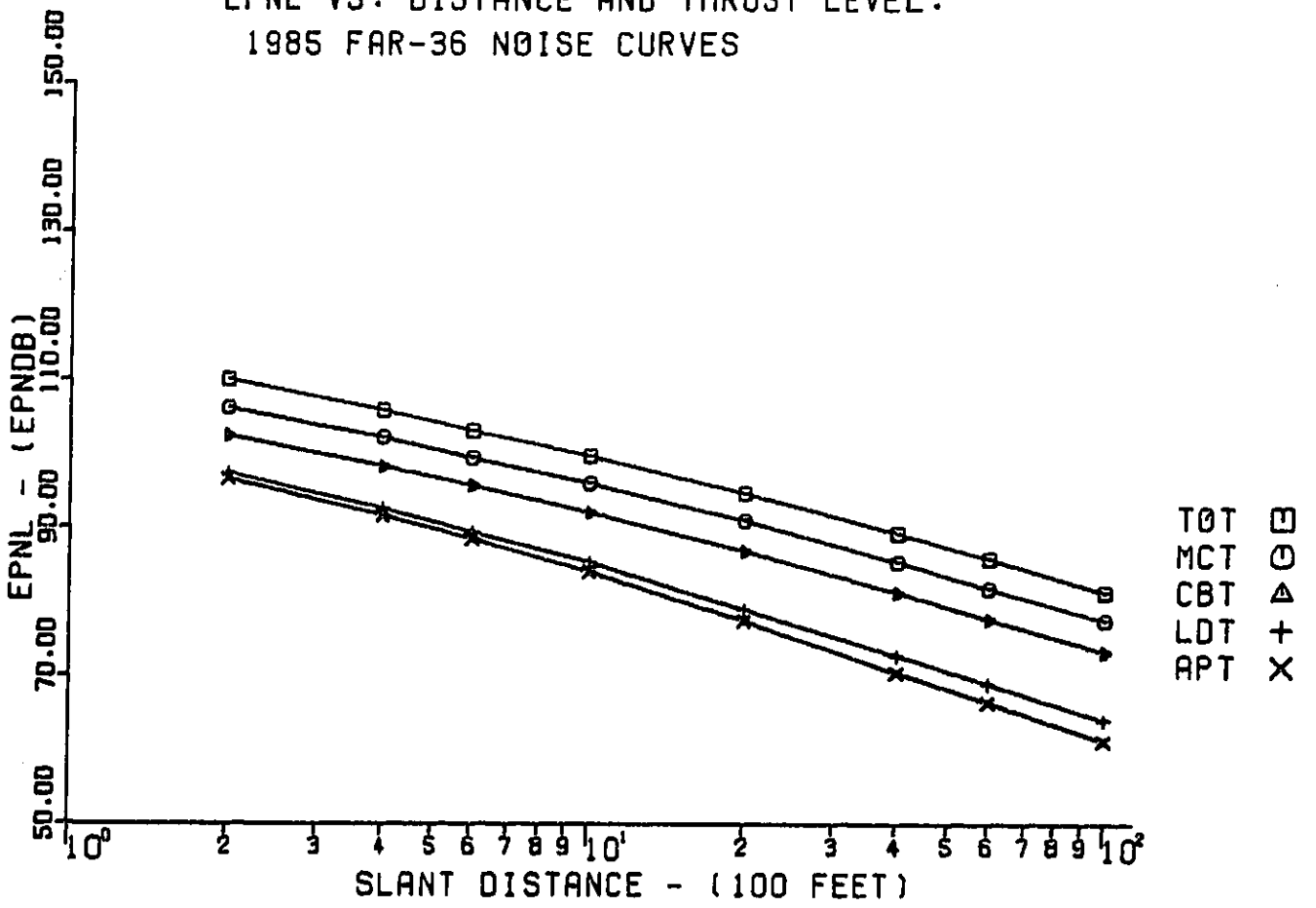
1980 FAR-36 NOISE CURVES

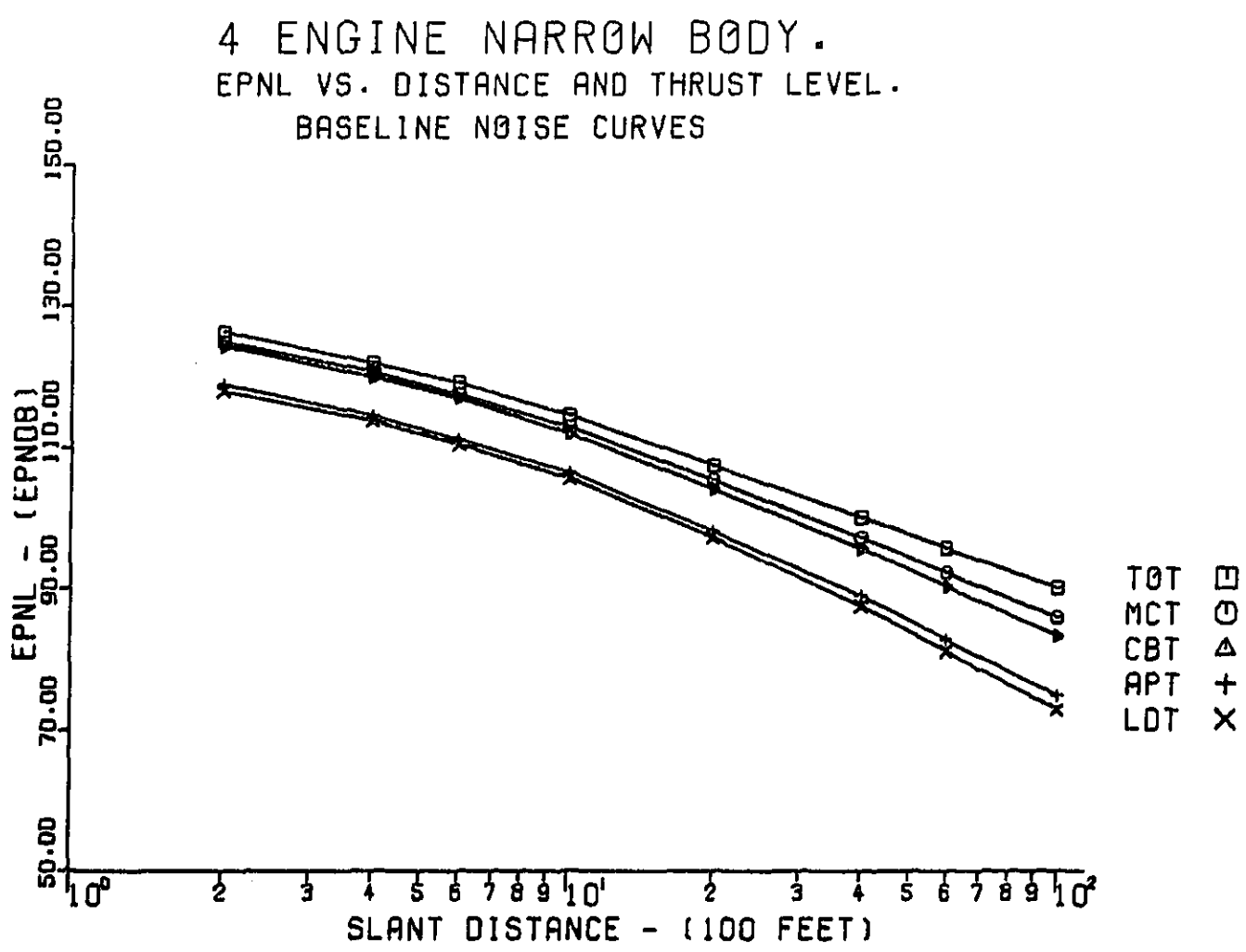


3 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

1985 FAR-36 NOISE CURVES

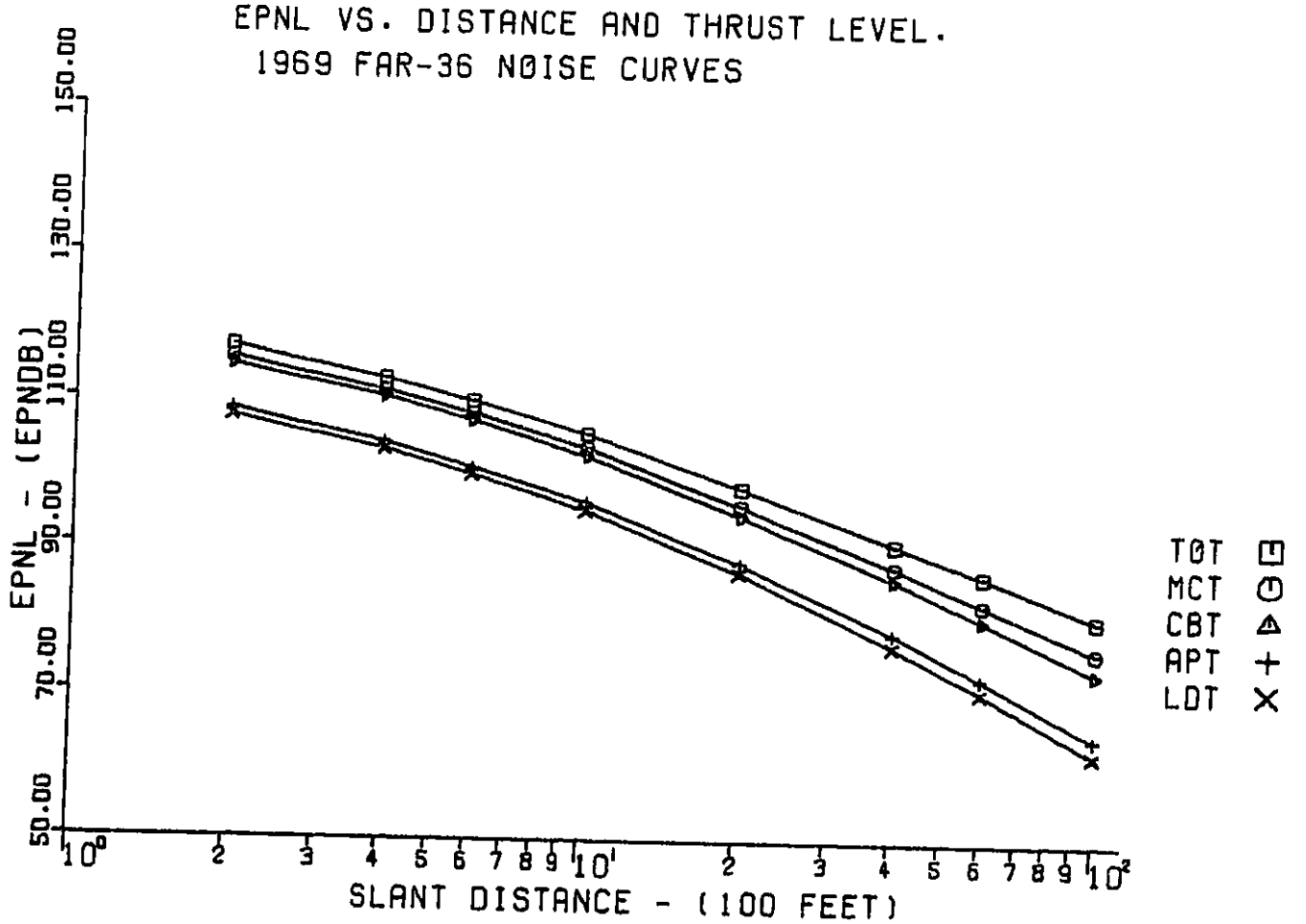


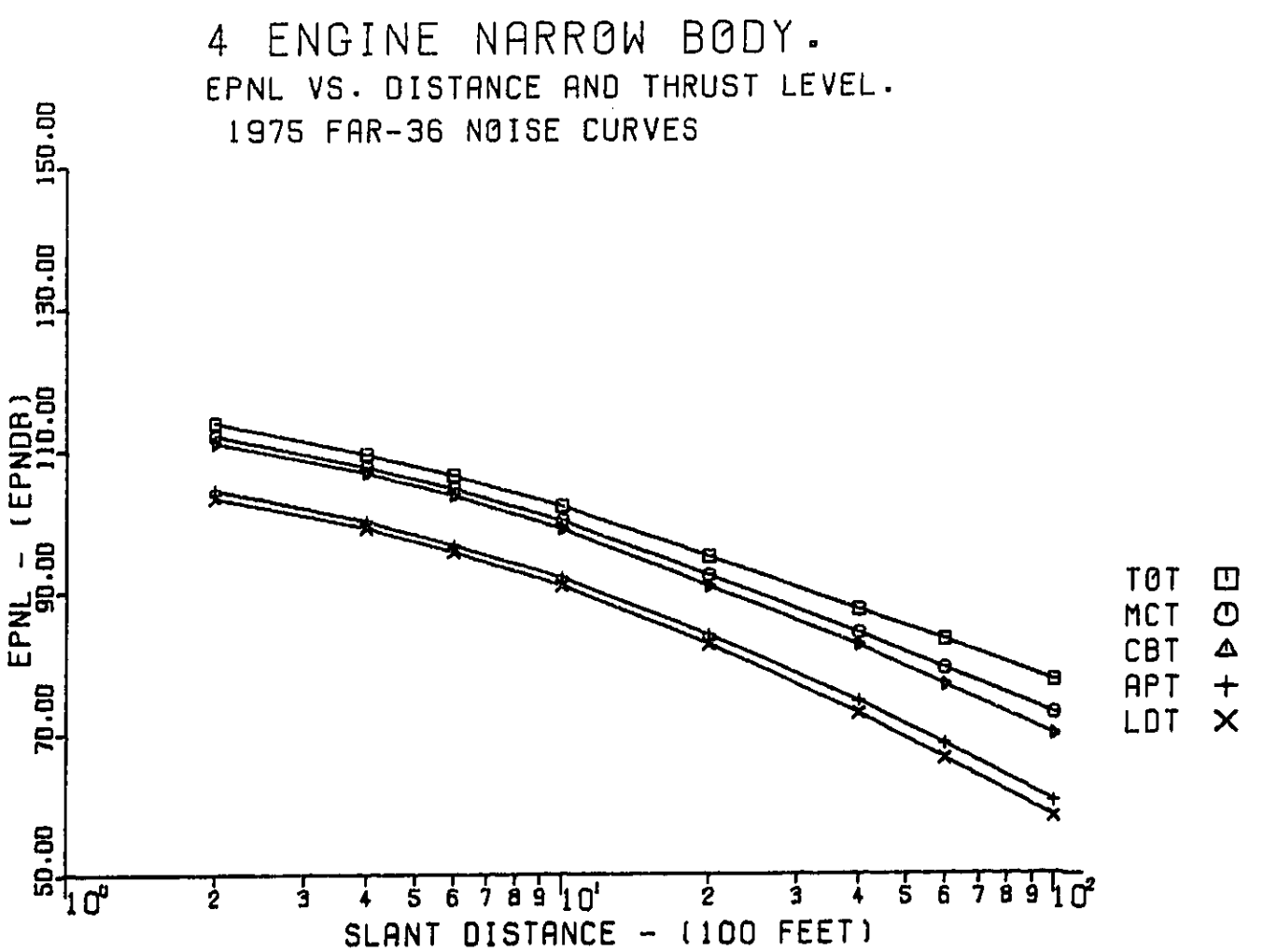

4 ENGINE NARROW BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
BASELINE NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT

4 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

1969 FAR-36 NOISE CURVES

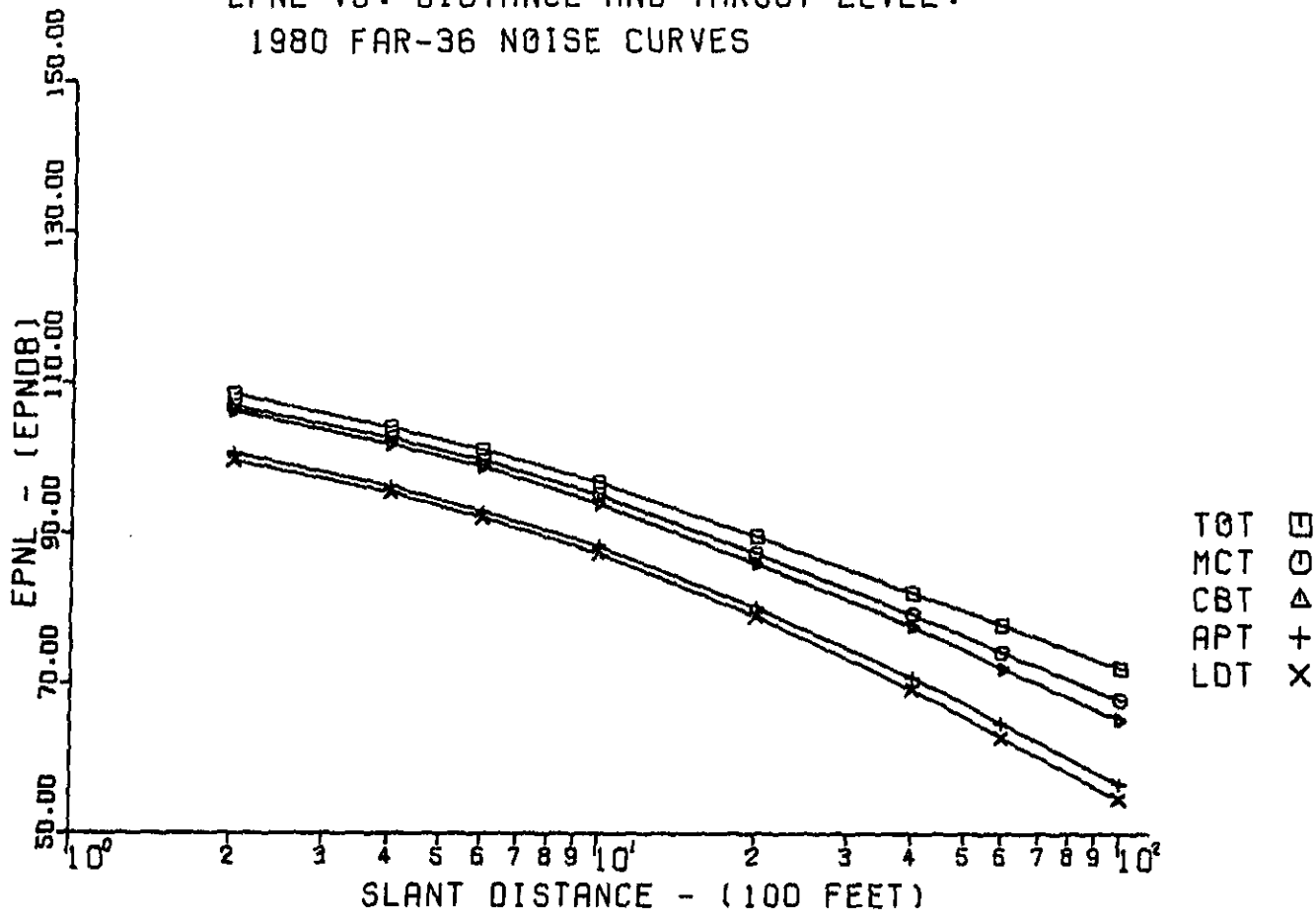



4 ENGINE NARROW BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
1975 FAR-36 NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT

4 ENGINE NARROW BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

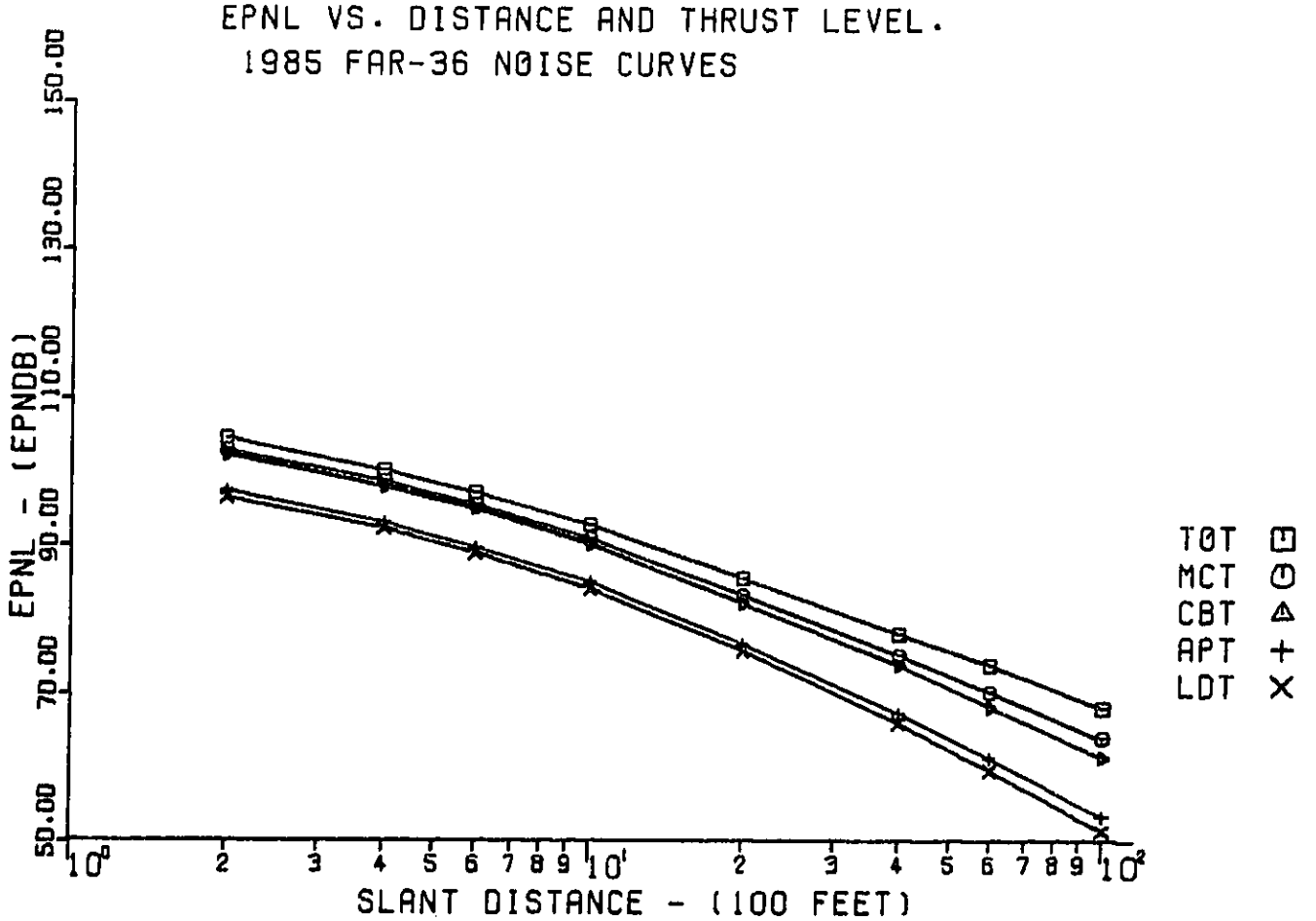
1980 FAR-36 NOISE CURVES

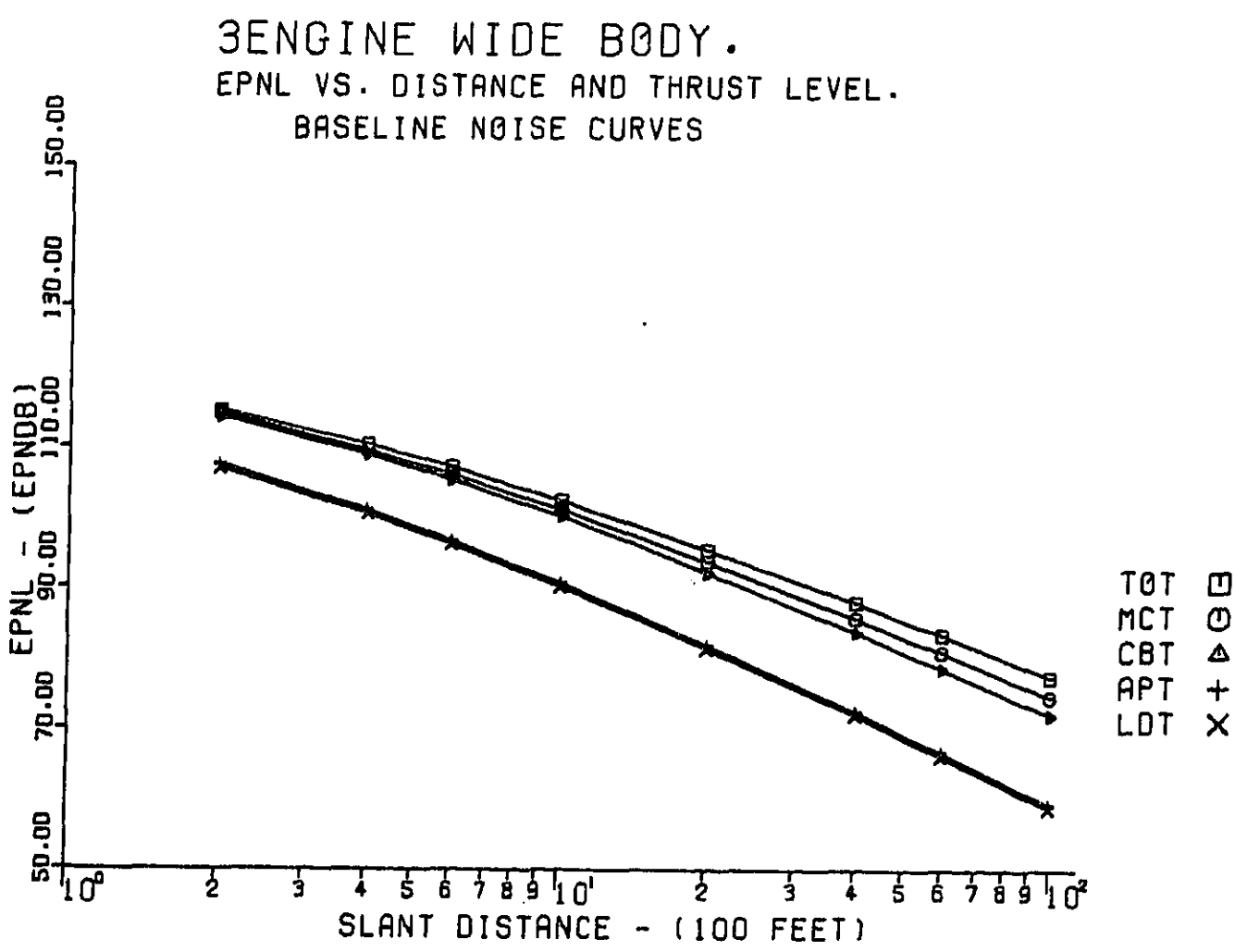


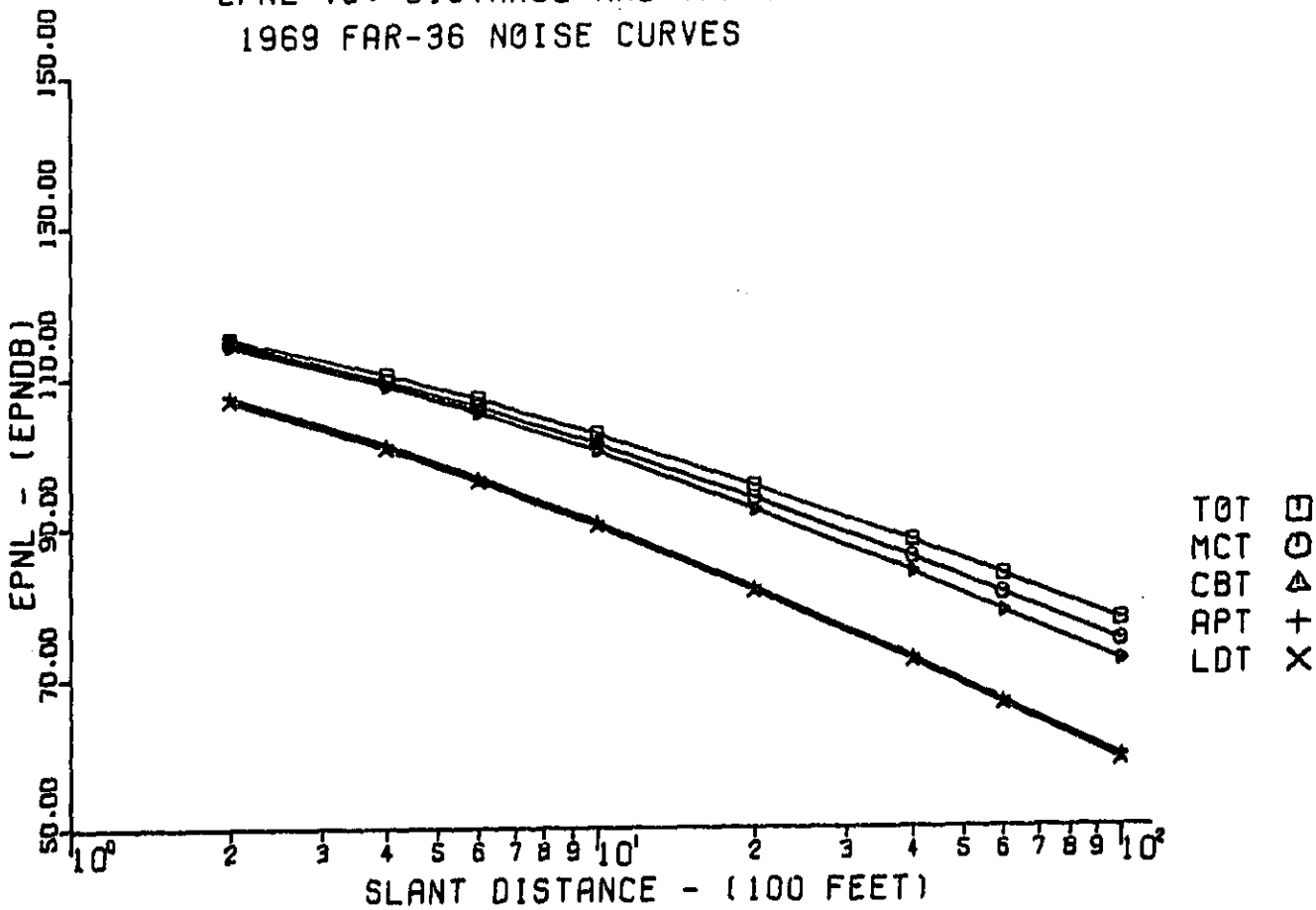
4 ENGINE NARROW BODY.

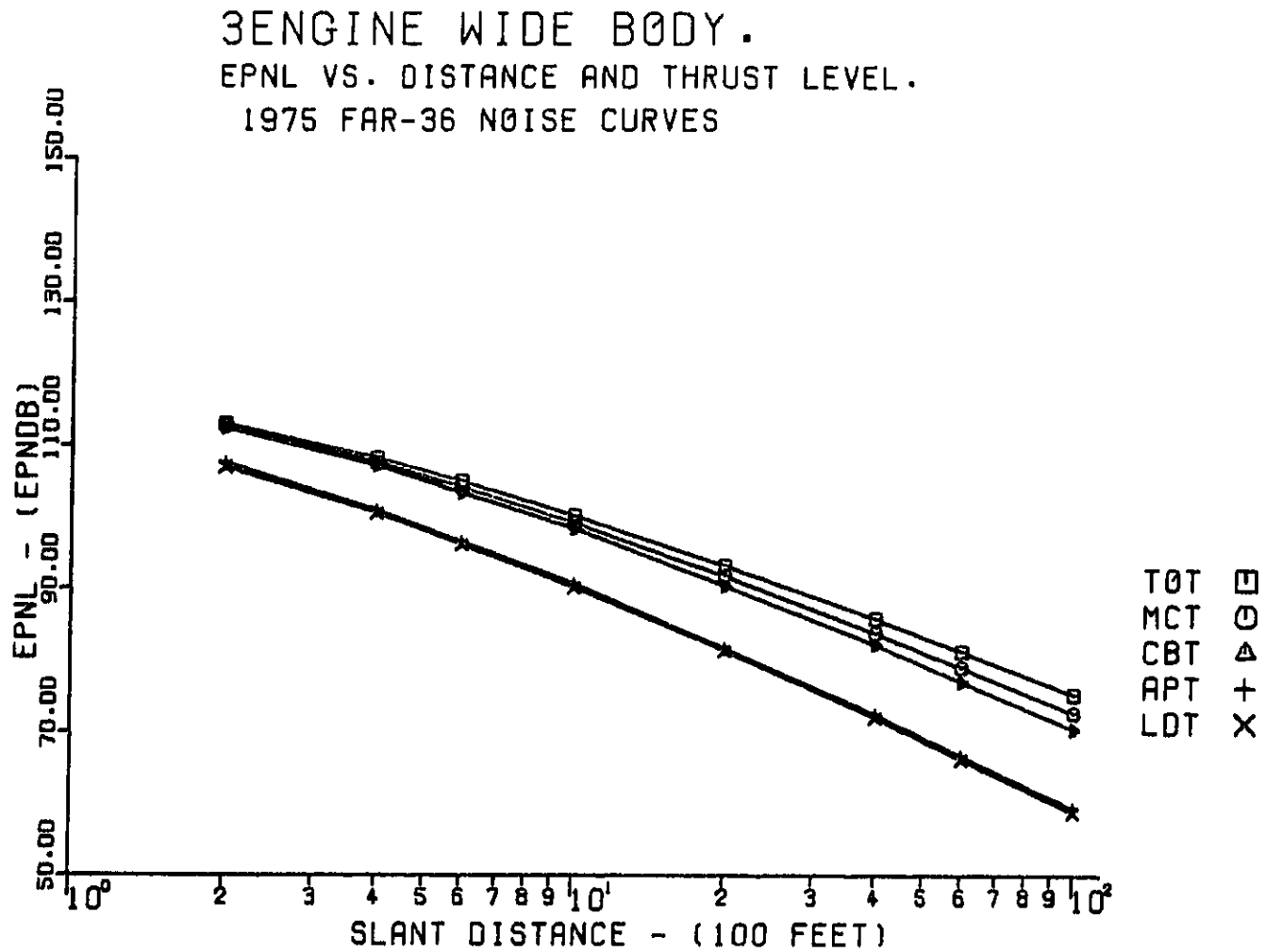
EPNL VS. DISTANCE AND THRUST LEVEL.

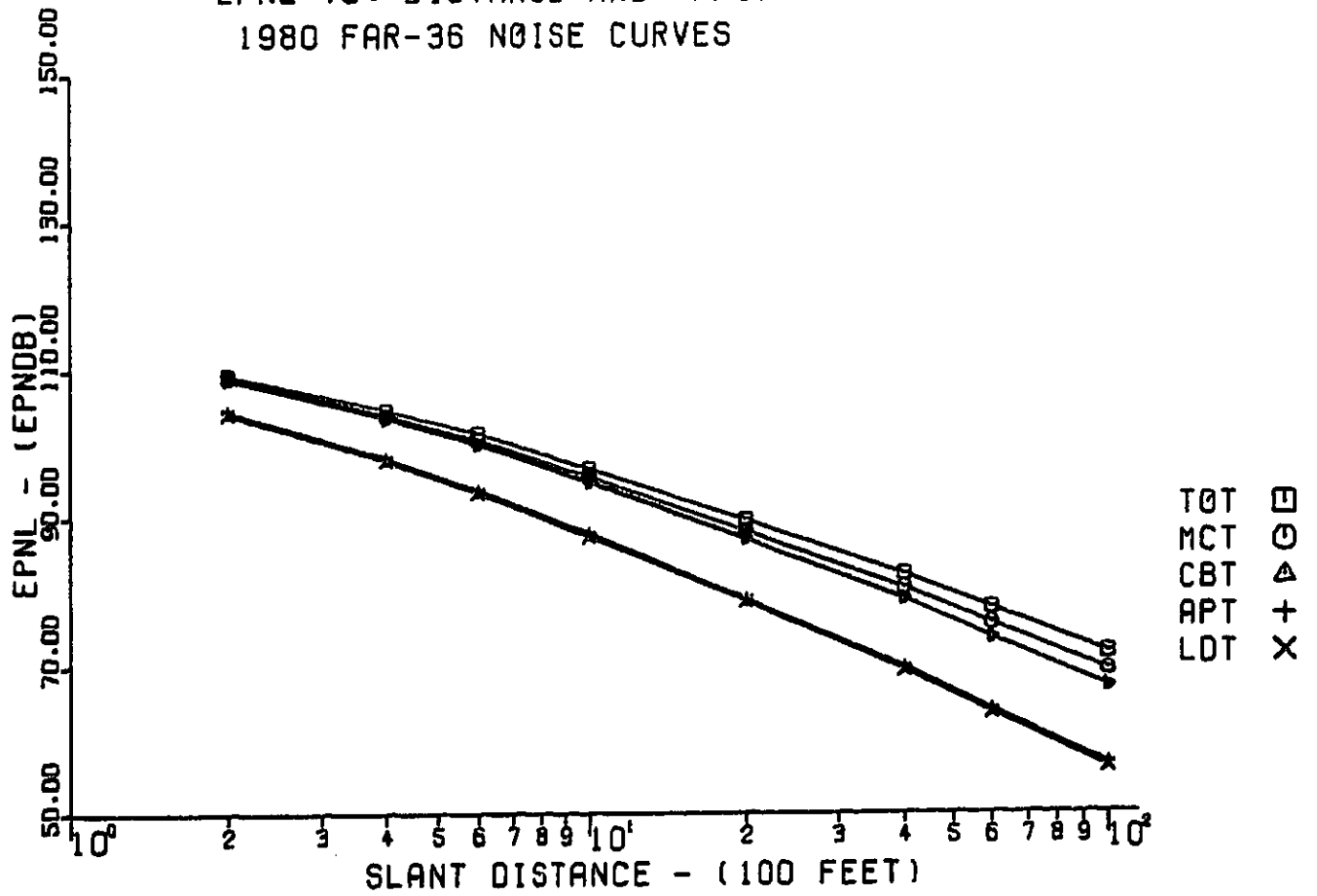
1985 FAR-36 NOISE CURVES

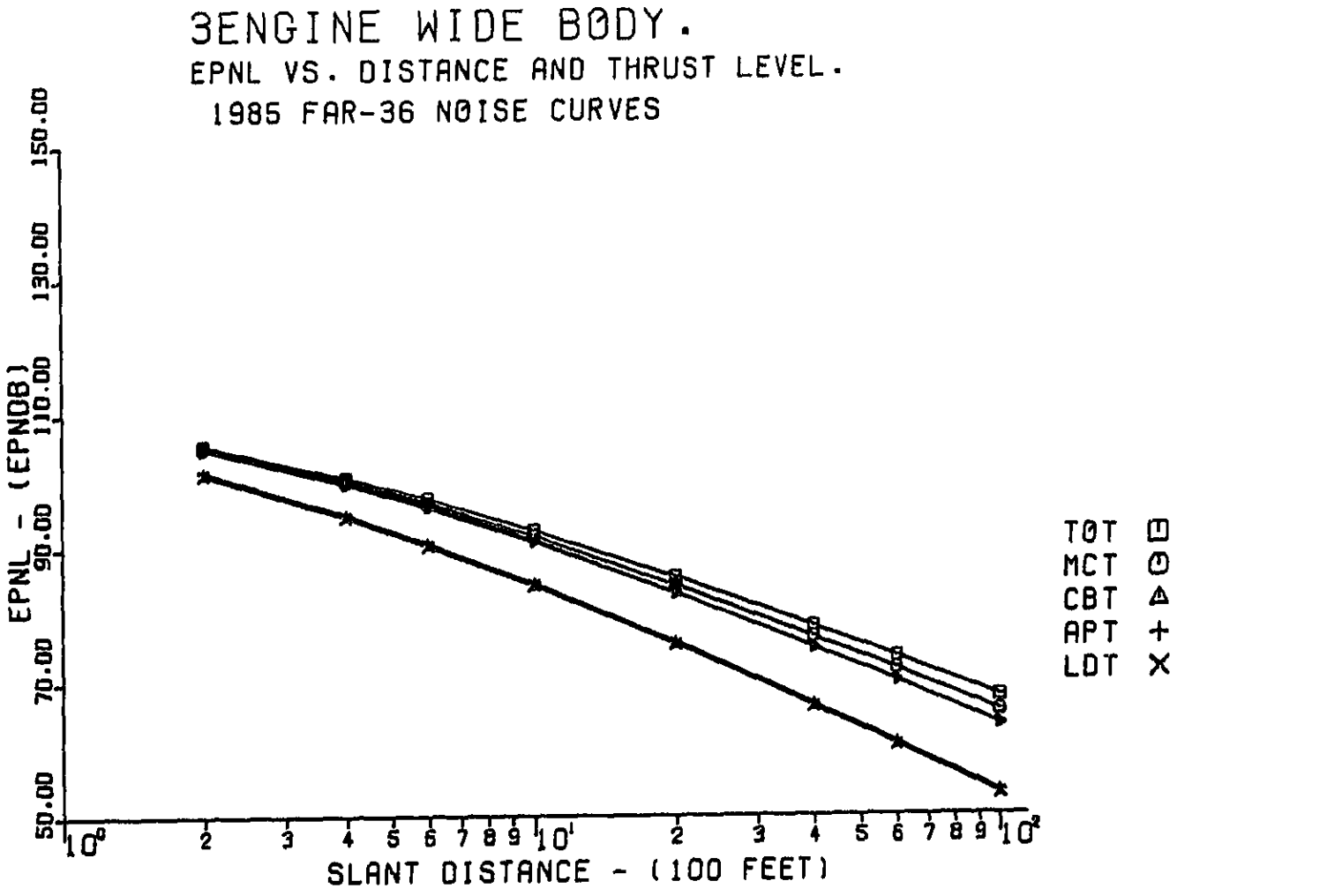


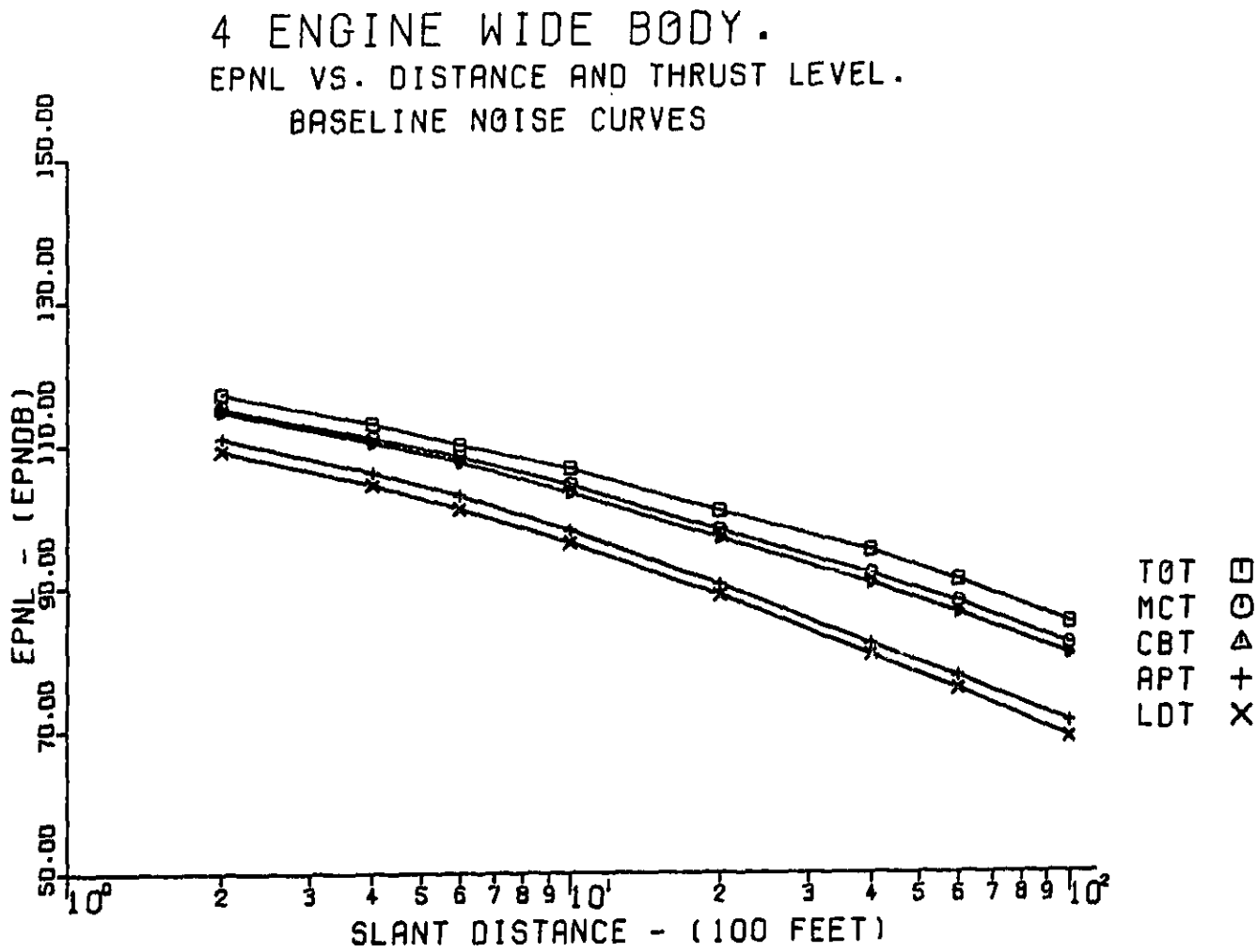

3ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
BASELINE NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT


3ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
1969 FAR-36 NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT


3ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
1975 FAR-36 NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT


3ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
1980 FAR-36 NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT

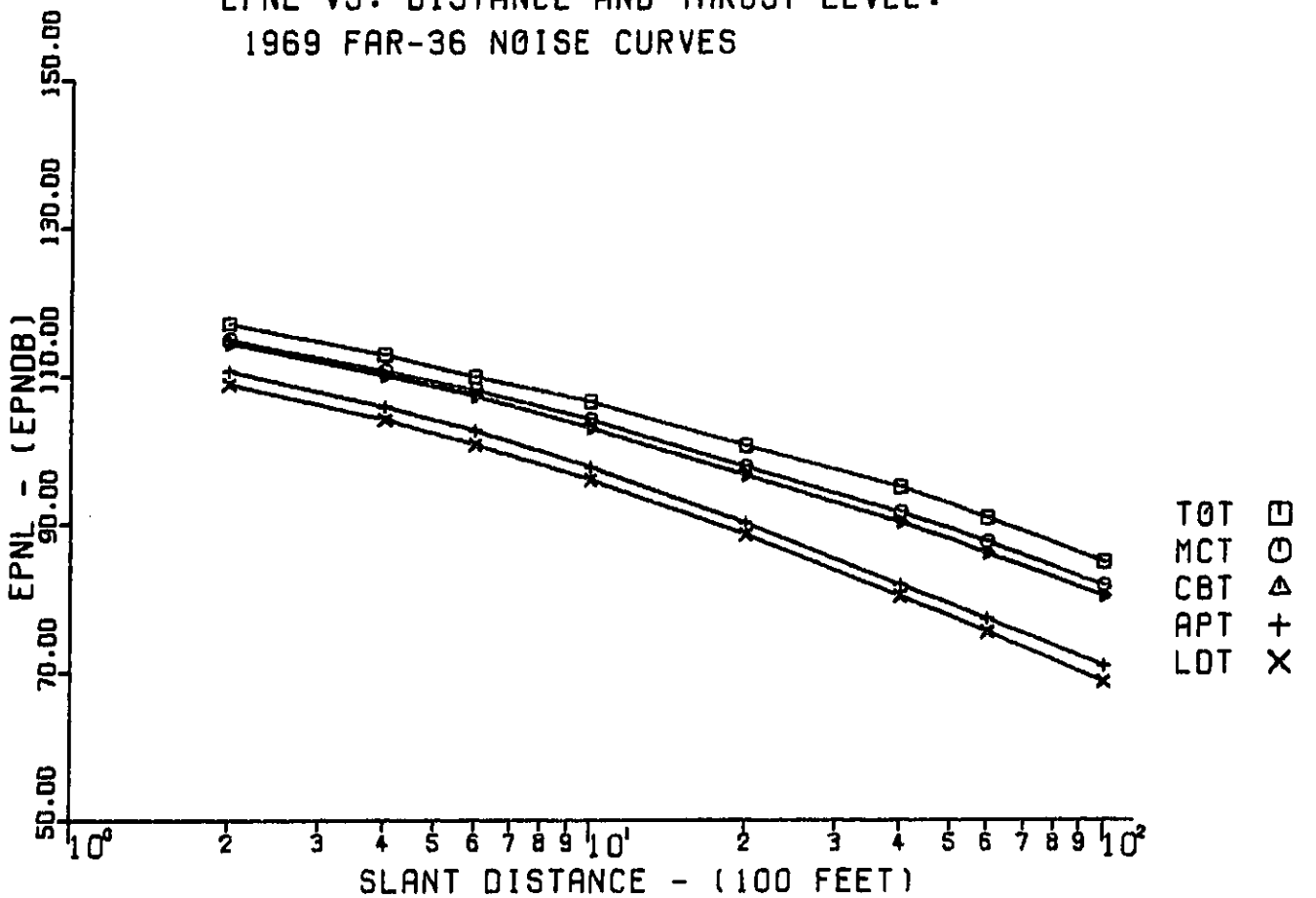

3ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
1985 FAR-36 NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
4
5
6
7
8
9
10²
SLANT DISTANCE - (100 FEET)
TOT
MCT
CBT
APT
LDT


4 ENGINE WIDE BODY.
EPNL VS. DISTANCE AND THRUST LEVEL.
BASELINE NOISE CURVES
EPNL - (EPNDB)
150.00
130.00
110.00
90.00
70.00
50.00
10^0
2
3
4
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
SLANT DISTANCE - (100 FEET)
T0T
MCT
CBT
APT
LDT

4 ENGINE WIDE BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

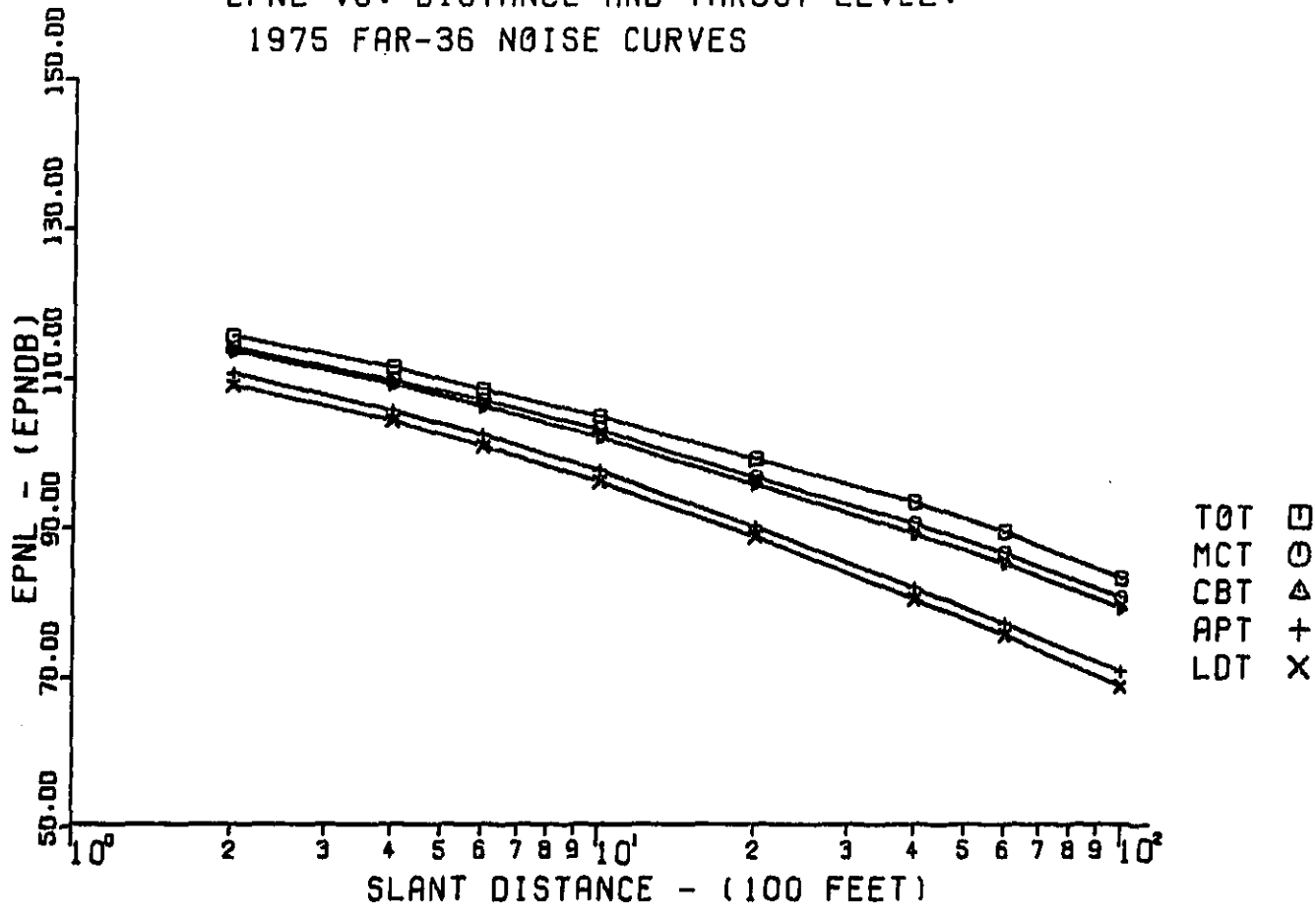
1969 FAR-36 NOISE CURVES



4 ENGINE WIDE BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

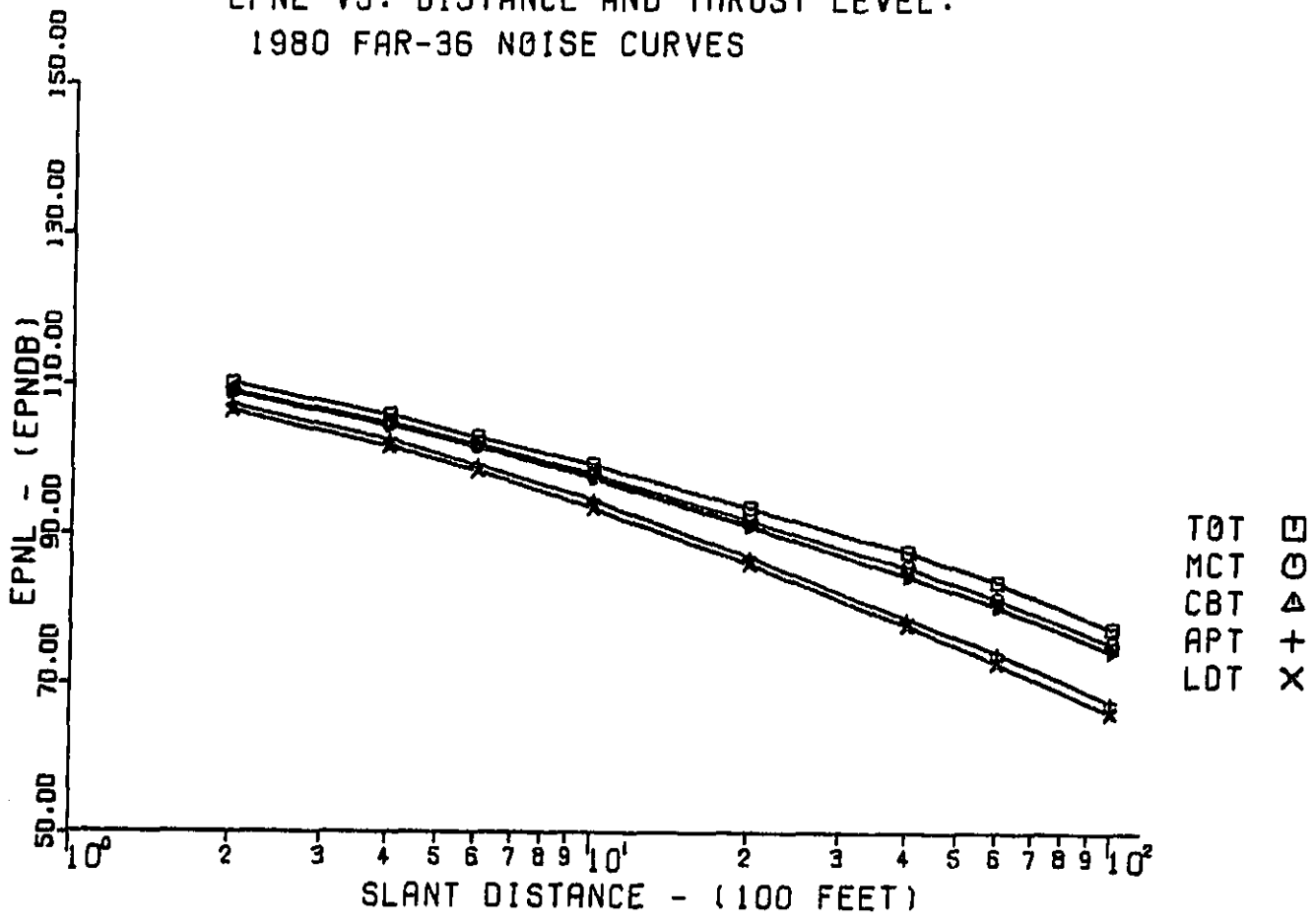
1975 FAR-36 NOISE CURVES



4 ENGINE WIDE BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

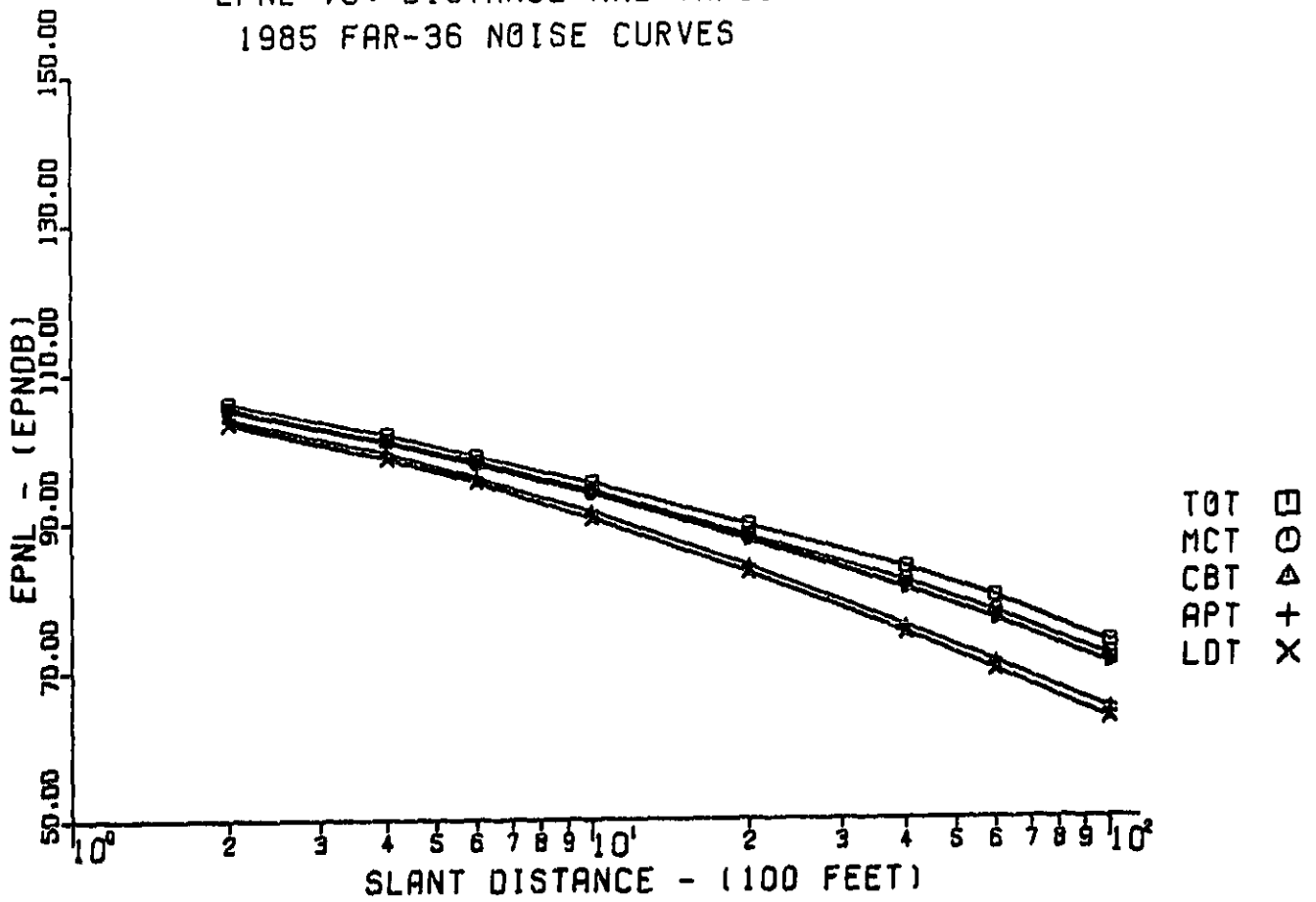
1980 FAR-36 NOISE CURVES



4 ENGINE WIDE BODY.

EPNL VS. DISTANCE AND THRUST LEVEL.

1985 FAR-36 NOISE CURVES



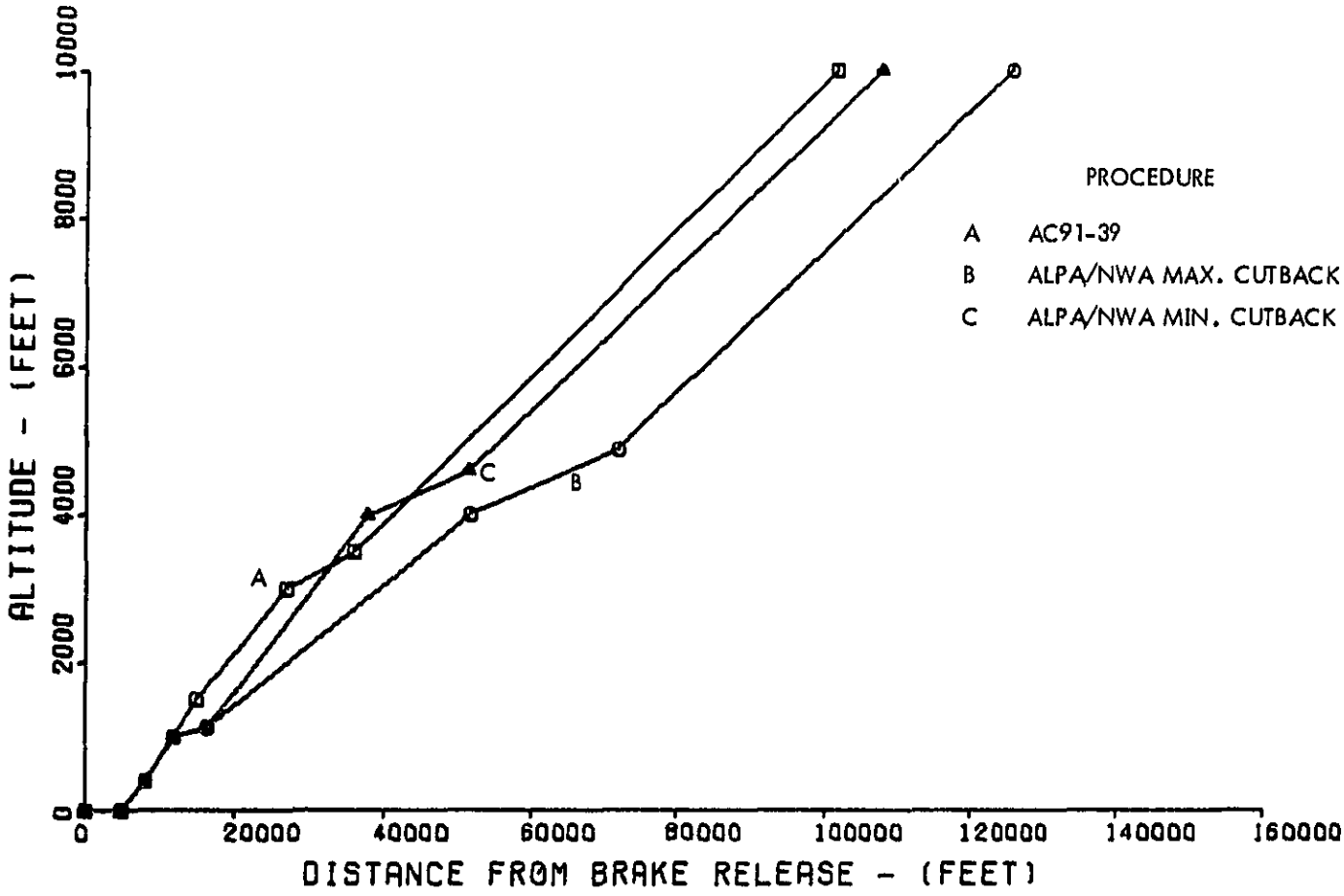
APPENDIX D

Aircraft Performance Data

The following 24 graphs illustrate the performance data assumed for the aircraft classifications for the AC91-39, ALPA/NWA Max. Cutback, and ALPA/NWA Min. Cutback takeoff procedures.

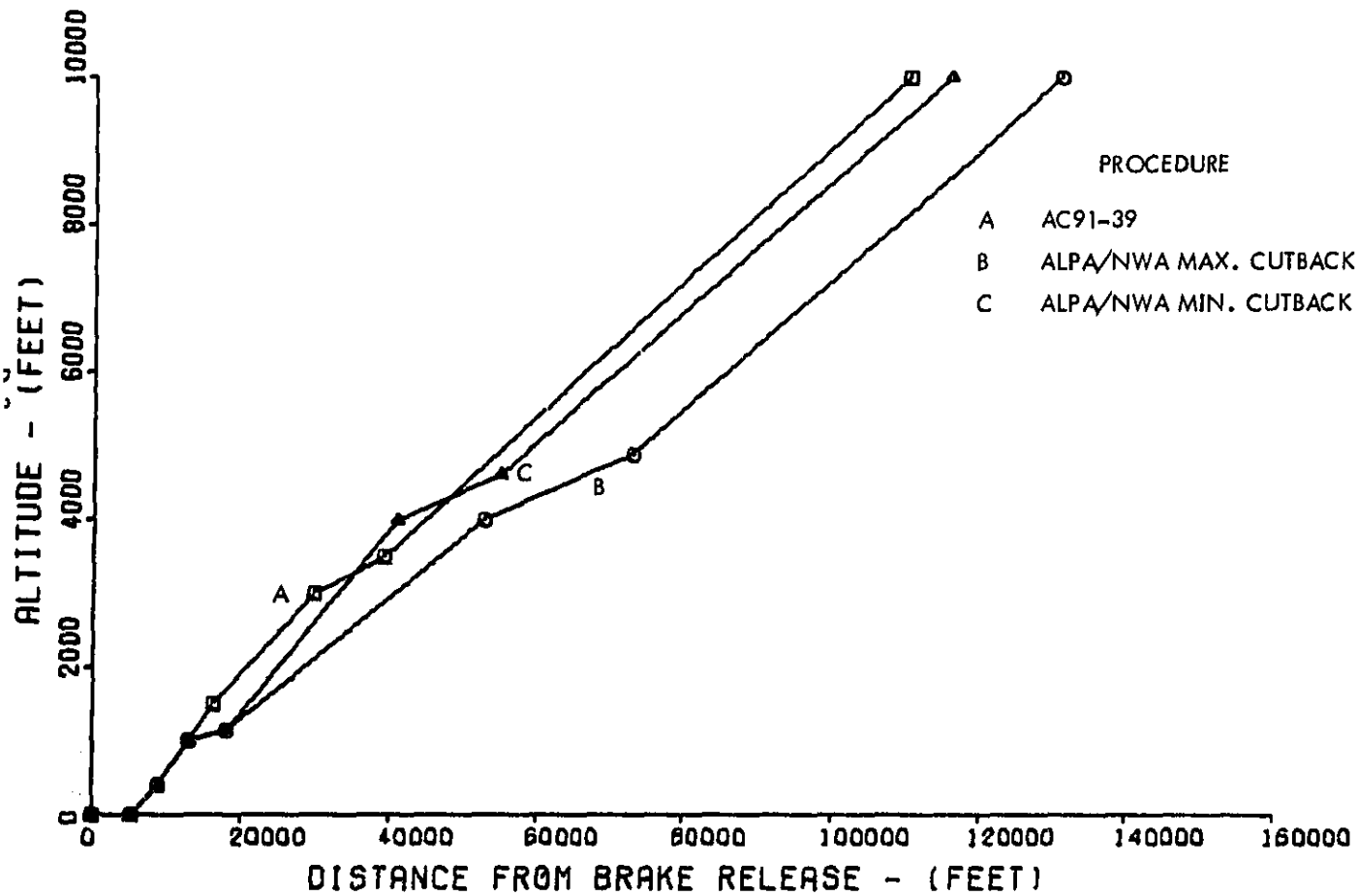
2-ENGINE NARROW BODY

Trip Length 1 (0-500 Nautical Miles)



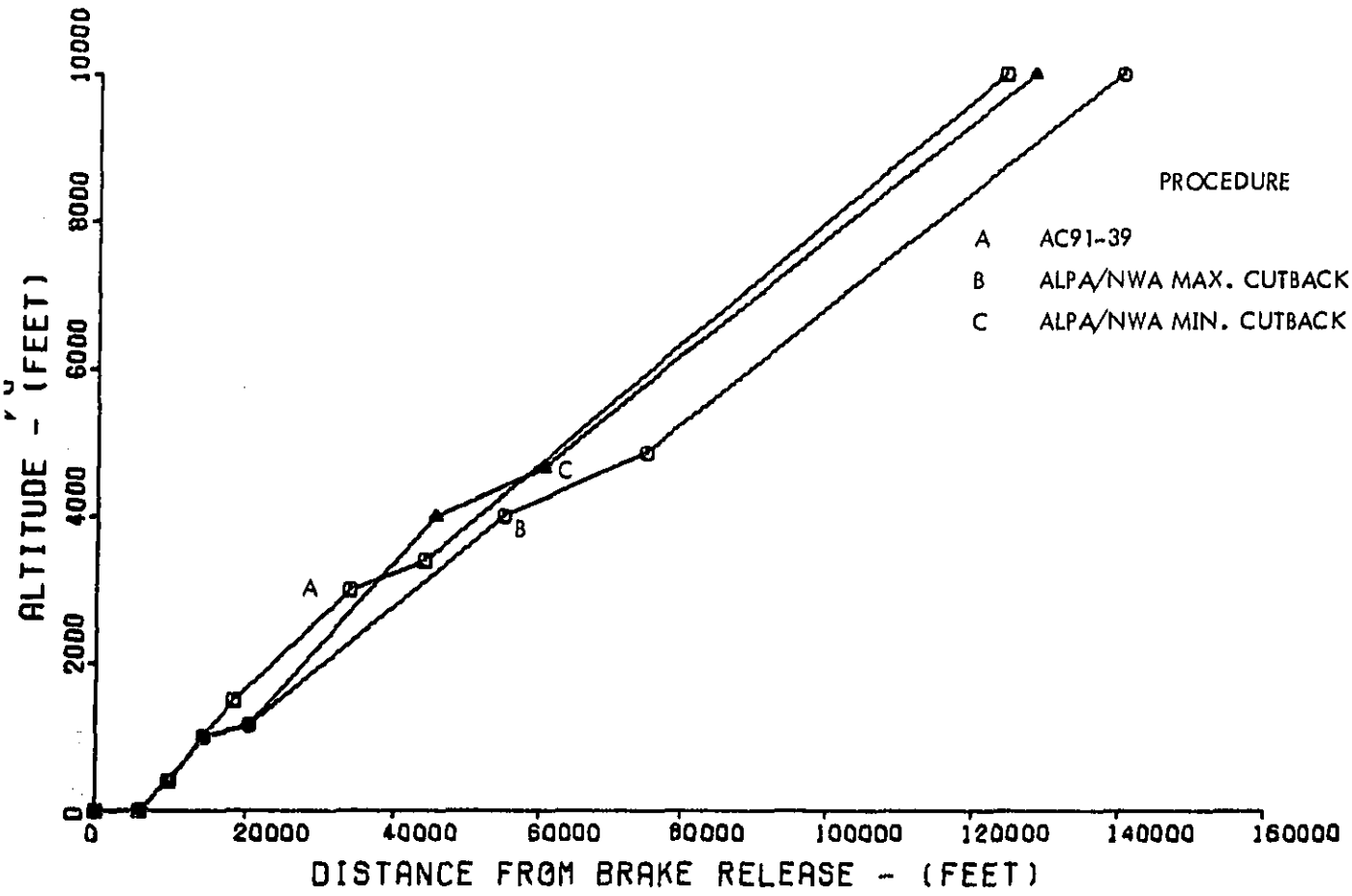
2-ENGINE NARROW BODY

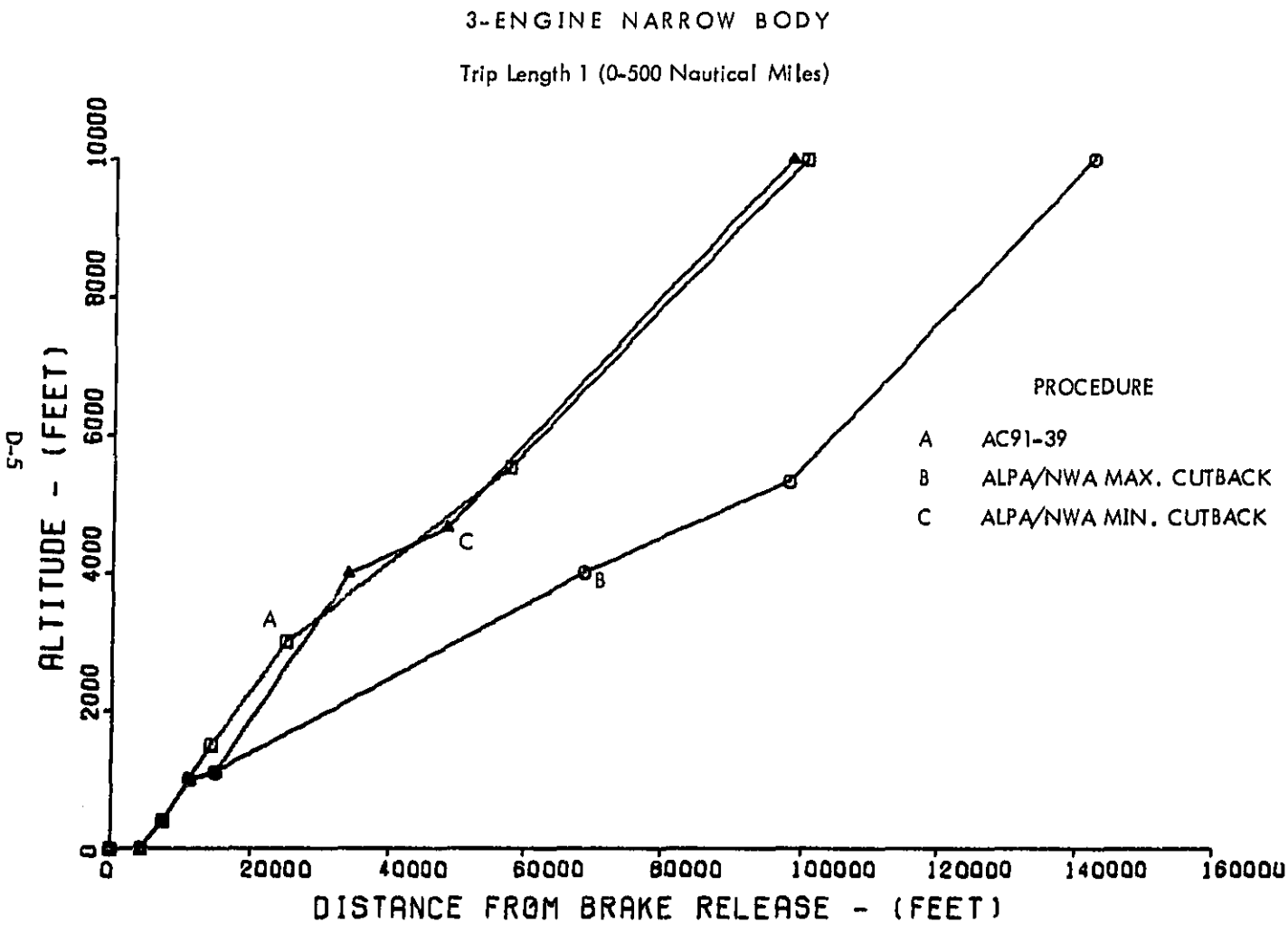
Trip Length 2 (500-1000 Nautical Miles)



2-ENGINE NARROW BODY

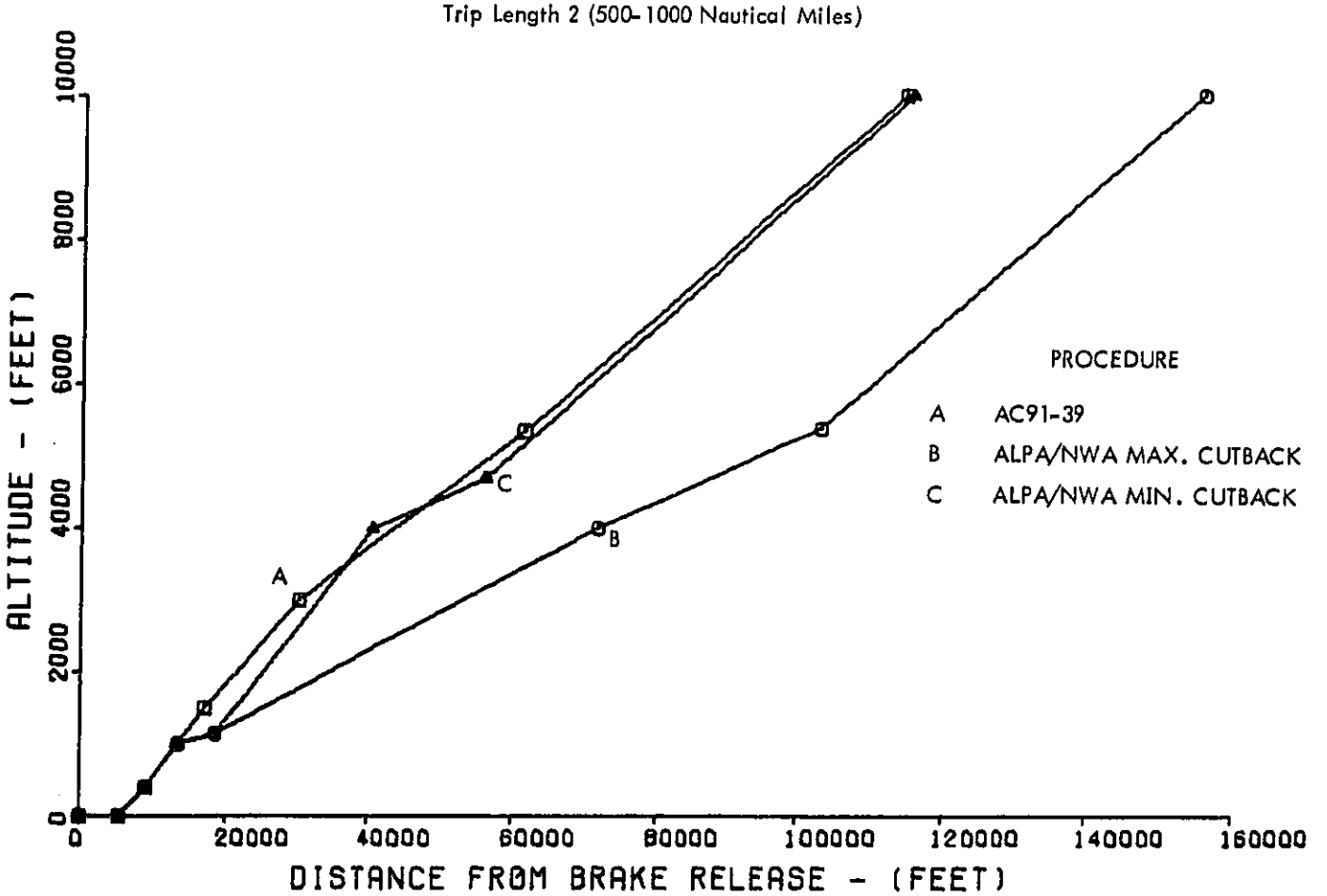
Trip Length 3 and 4 (1000-2500 Nautical Miles)

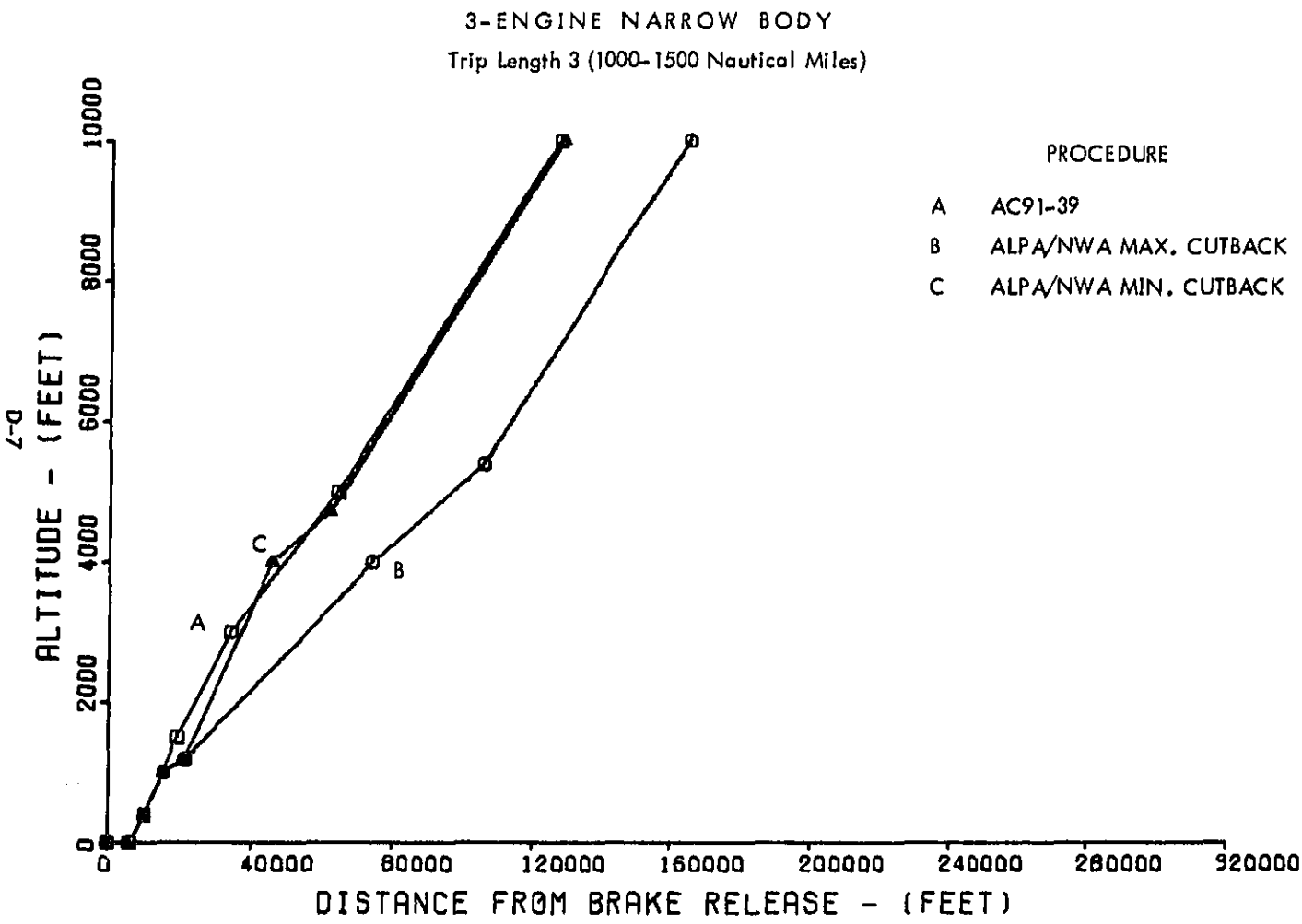



3-ENGINE NARROW BODY
Trip Length 1 (0-500 Nautical Miles)
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
DISTANCE FROM BRAKE RELEASE - (FEET)
0
20000
40000
60000
80000
100000
120000
140000
160000
PROCEDURE
A AC91-39
B ALPA/NWA MAX. CUTBACK
C ALPA/NWA MIN. CUTBACK
A
B
C

3-ENGINE NARROW BODY

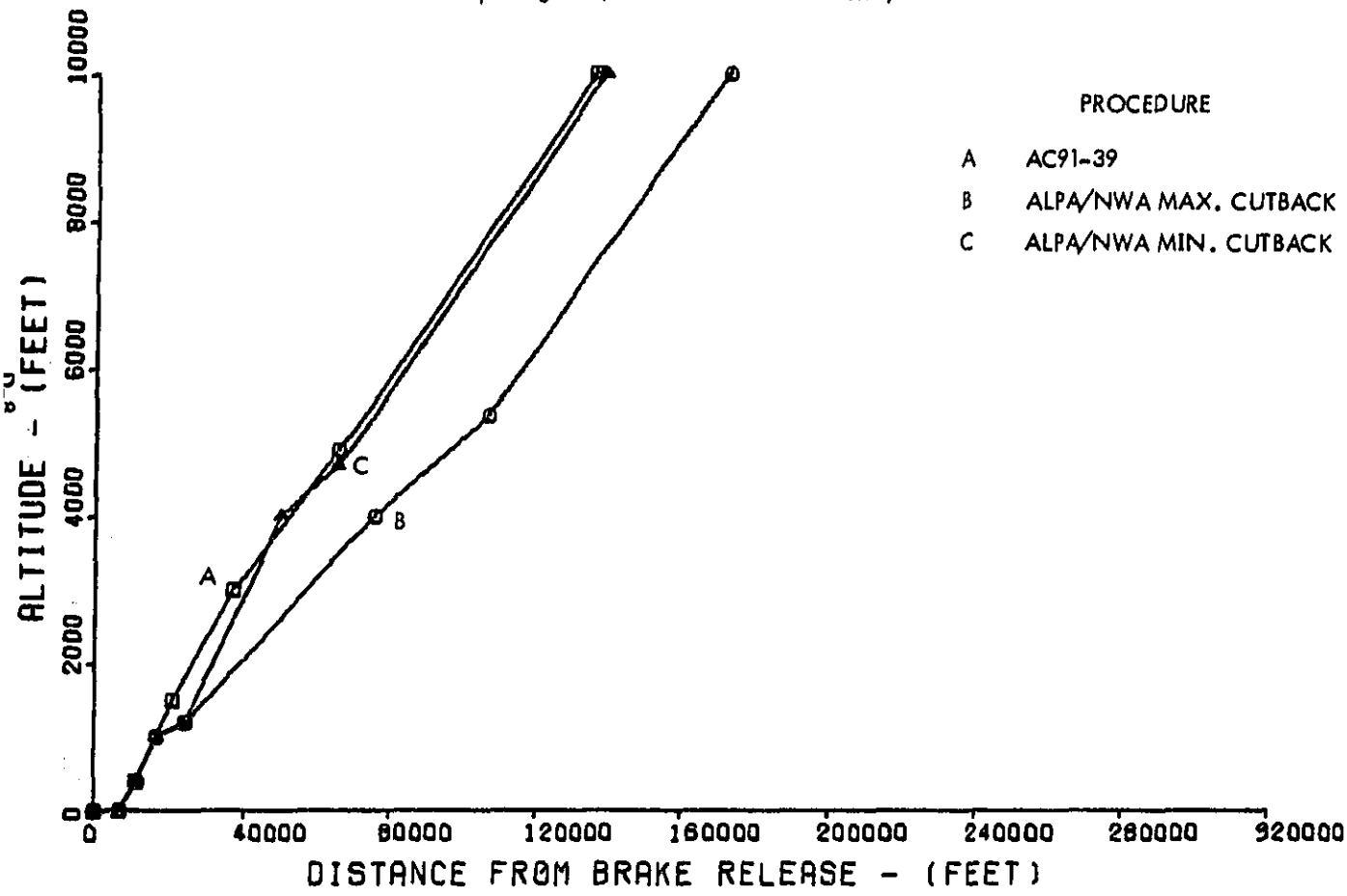
Trip Length 2 (500-1000 Nautical Miles)

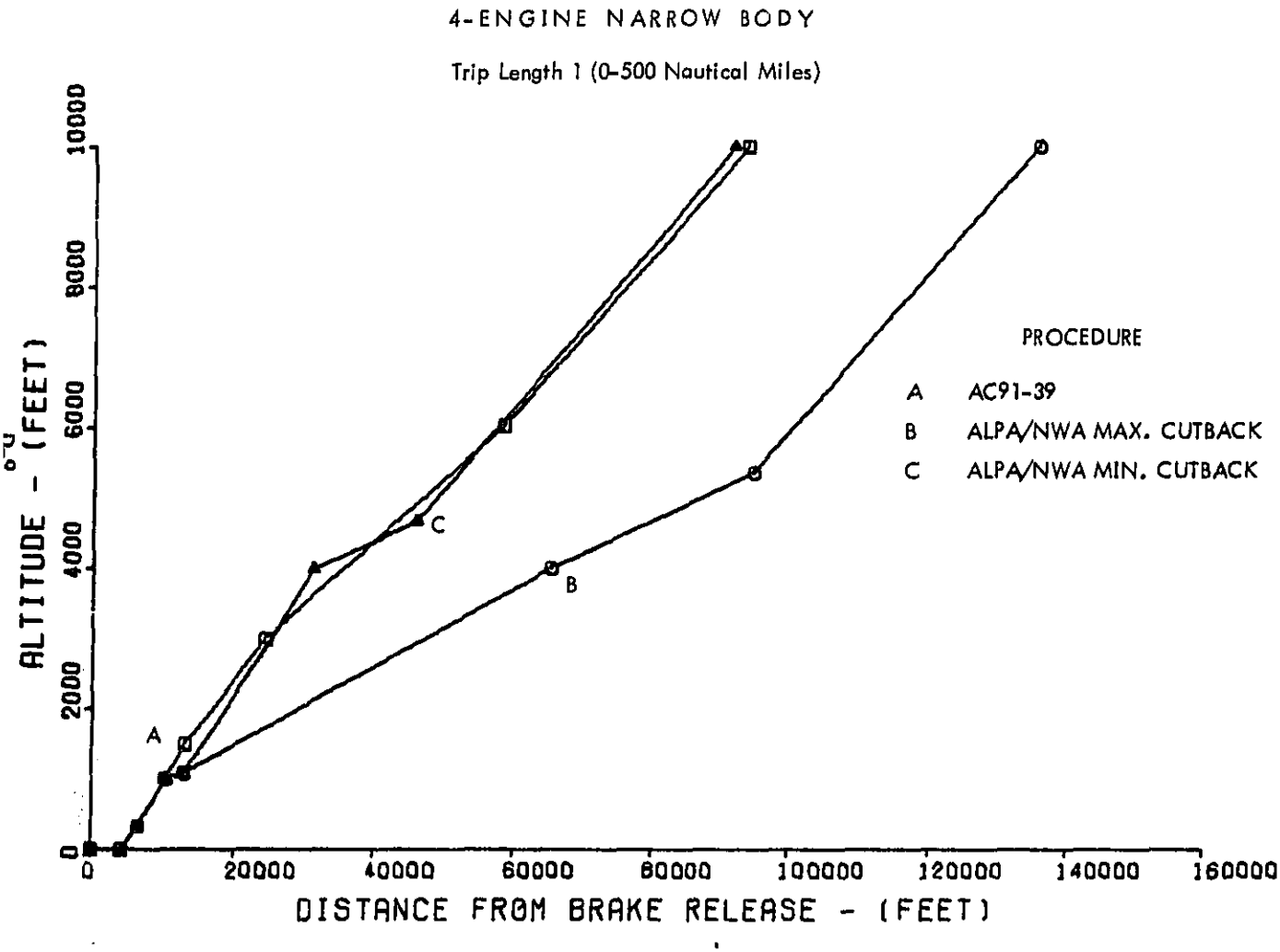



3-ENGINE NARROW BODY
Trip Length 3 (1000-1500 Nautical Miles)
PROCEDURE
A AC91-39
B ALPA/NWA MAX. CUTBACK
C ALPA/NWA MIN. CUTBACK
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
DISTANCE FROM BRAKE RELEASE - (FEET)
0
40000
80000
120000
160000
200000
240000
280000
320000
A
B
C

3-ENGINE NARROW BODY

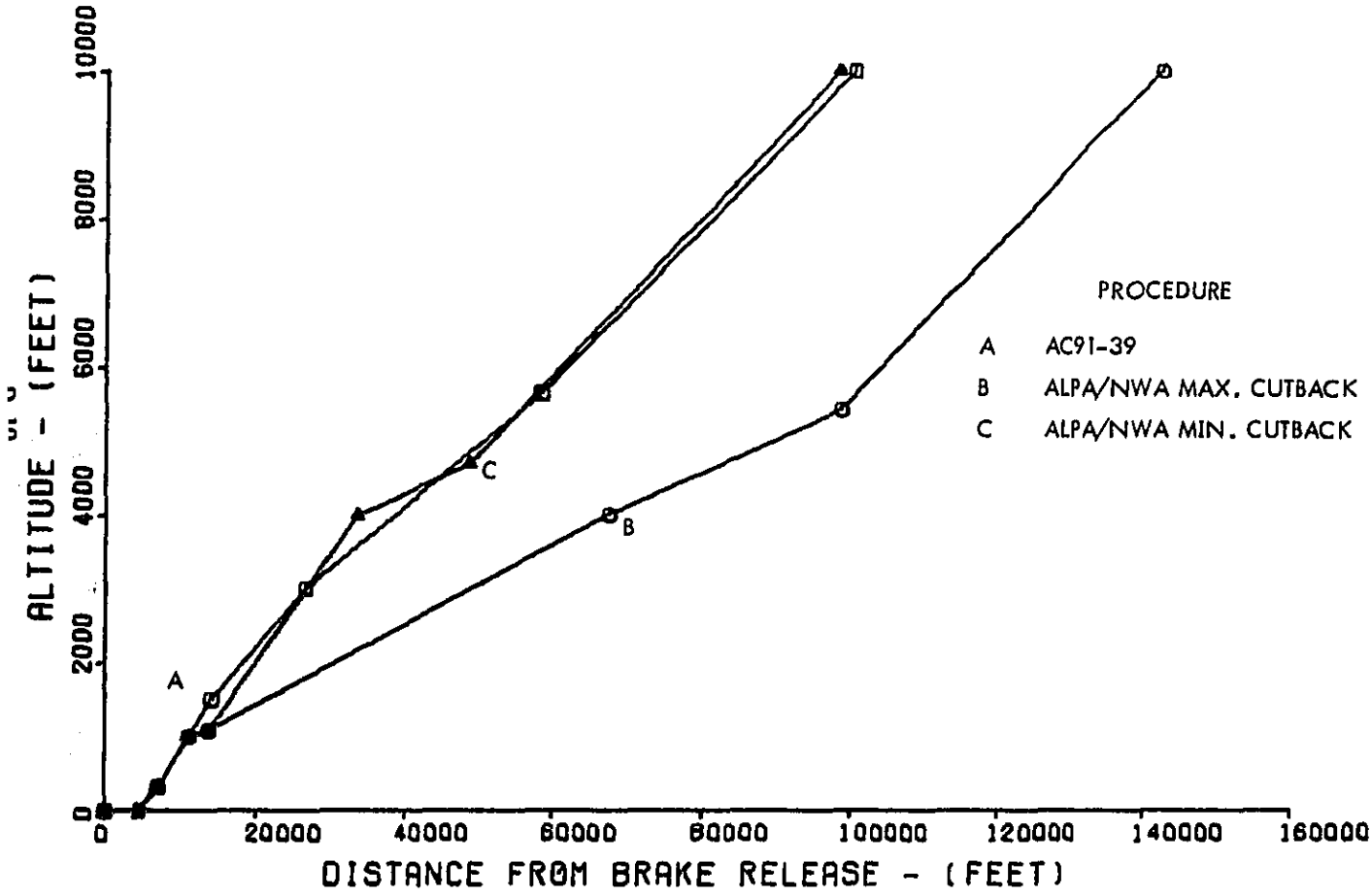
Trip Length 4 (1500-2500 Nautical Miles)

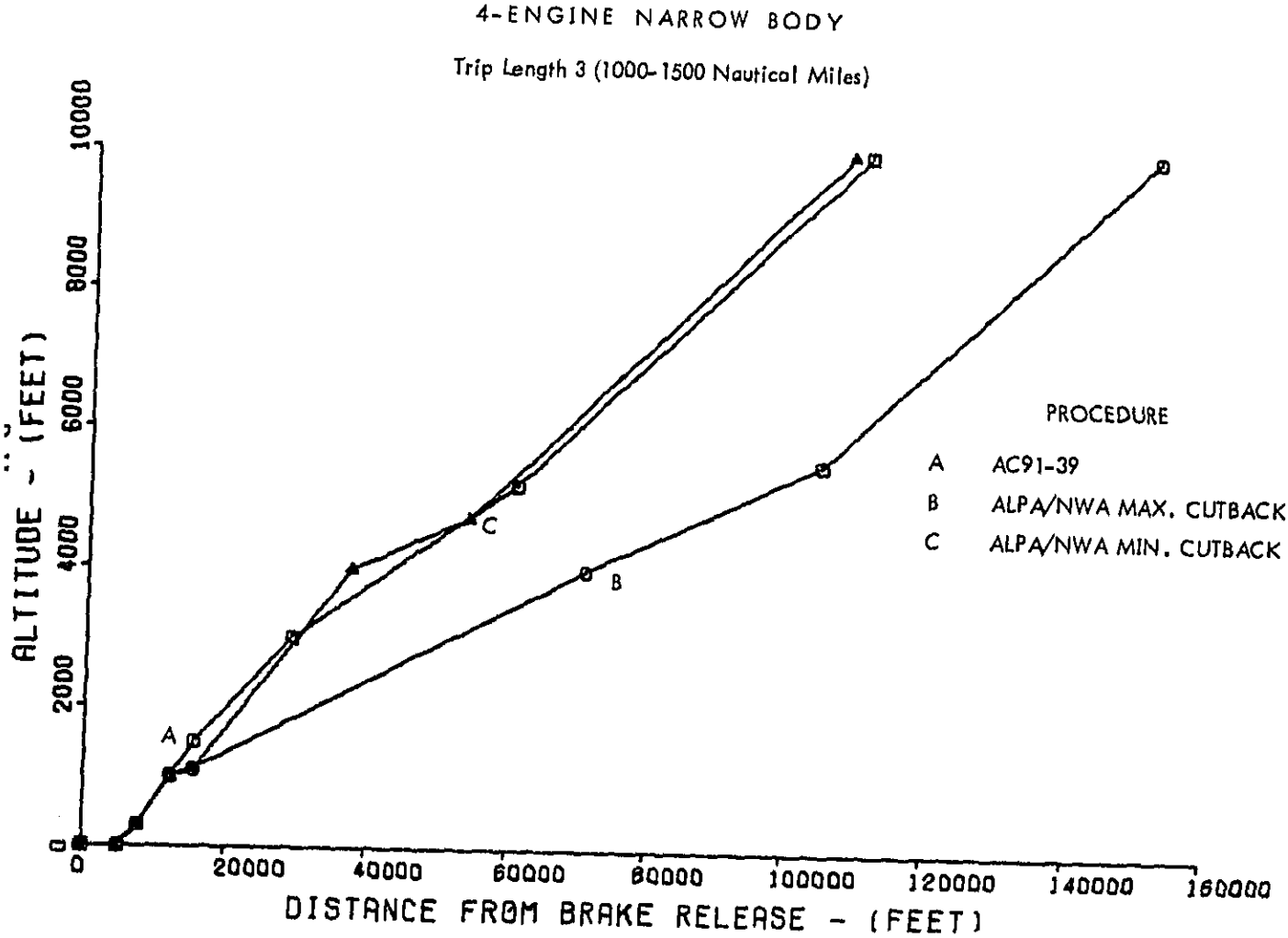



4-ENGINE NARROW BODY
Trip Length 1 (0-500 Nautical Miles)
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
0
20000
40000
60000
80000
100000
120000
140000
160000
DISTANCE FROM BRAKE RELEASE - (FEET)
A
B
C
PROCEDURE
A AC91-39
B ALPA/NWA MAX. CUTBACK
C ALPA/NWA MIN. CUTBACK

4-ENGINE NARROW BODY

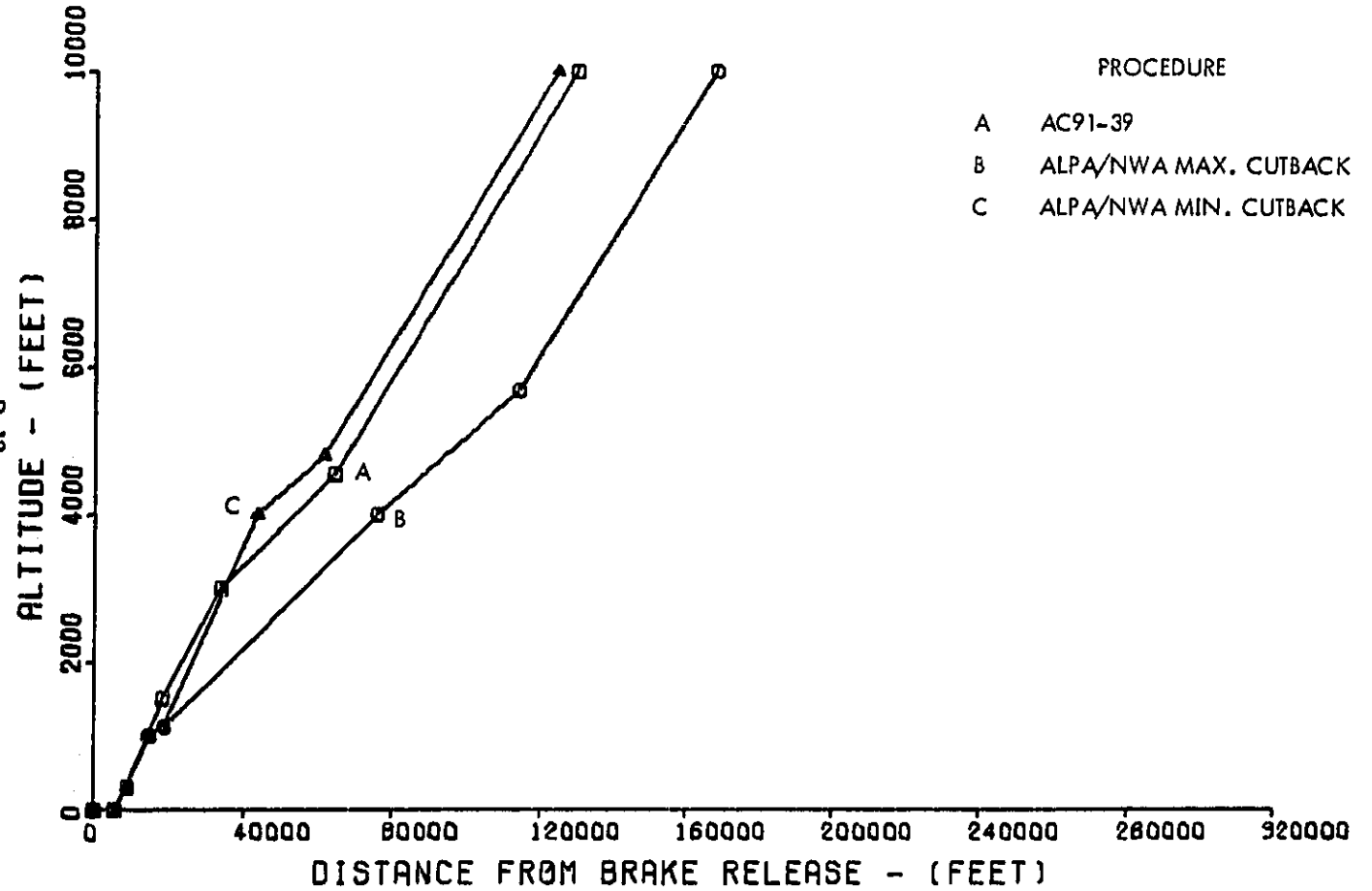
Trip Length 2 (500-1000 Nautical Miles)




4-ENGINE NARROW BODY
Trip Length 3 (1000-1500 Nautical Miles)
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
0
20000
40000
60000
80000
100000
120000
140000
160000
DISTANCE FROM BRAKE RELEASE - (FEET)
A
B
C
PROCEDURE
A AC91-39
B ALPA/NWA MAX. CUTBACK
C ALPA/NWA MIN. CUTBACK

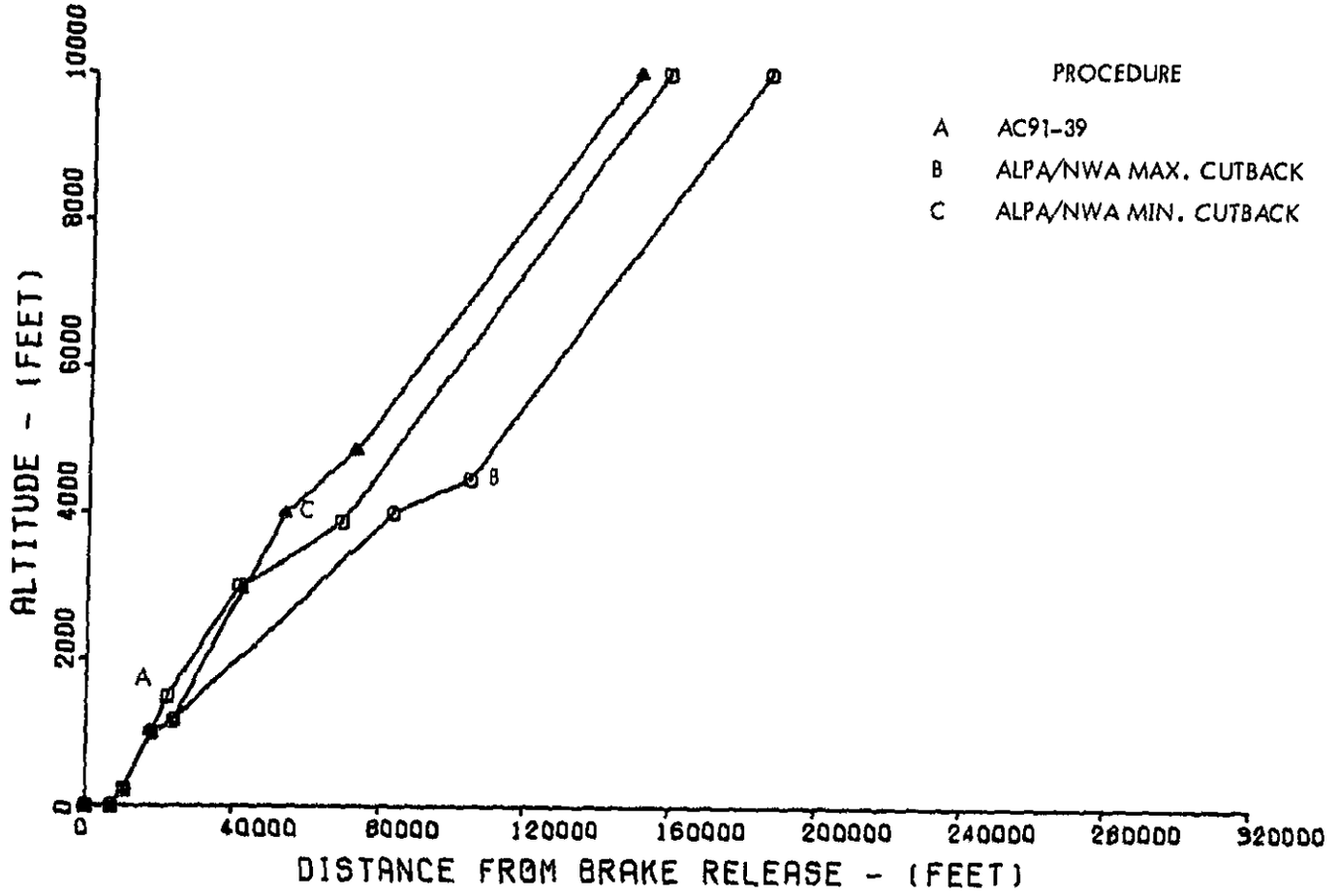
4-ENGINE NARROW BODY

Trip Length 4 (1500-2500 Nautical Miles)



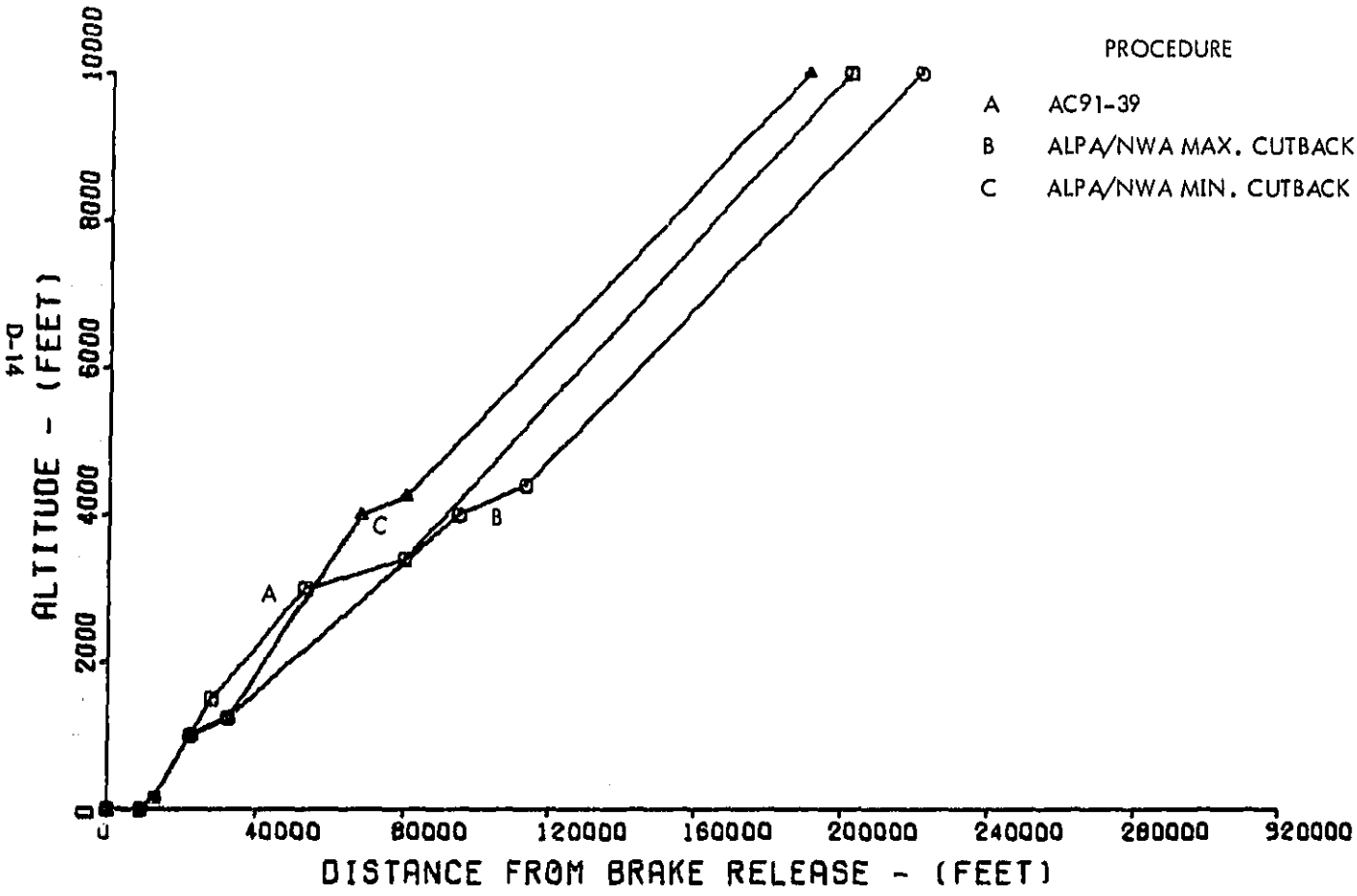
4-ENGINE NARROW BODY

Trip Length 5 (2500-3500 Nautical Miles)



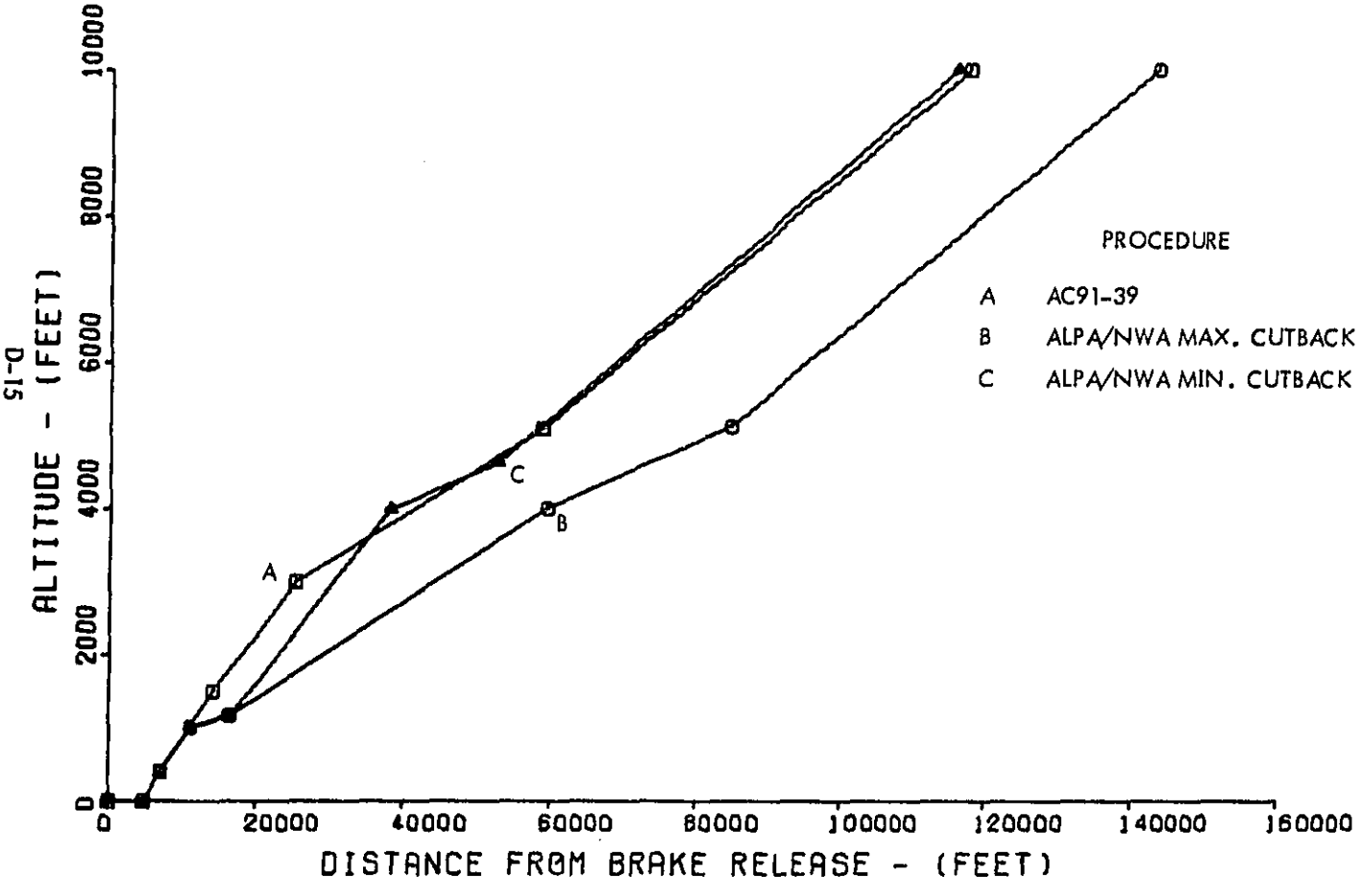
4-ENGINE NARROW BODY

Trip Length 6 and 7 (3500+ Nautical Miles)



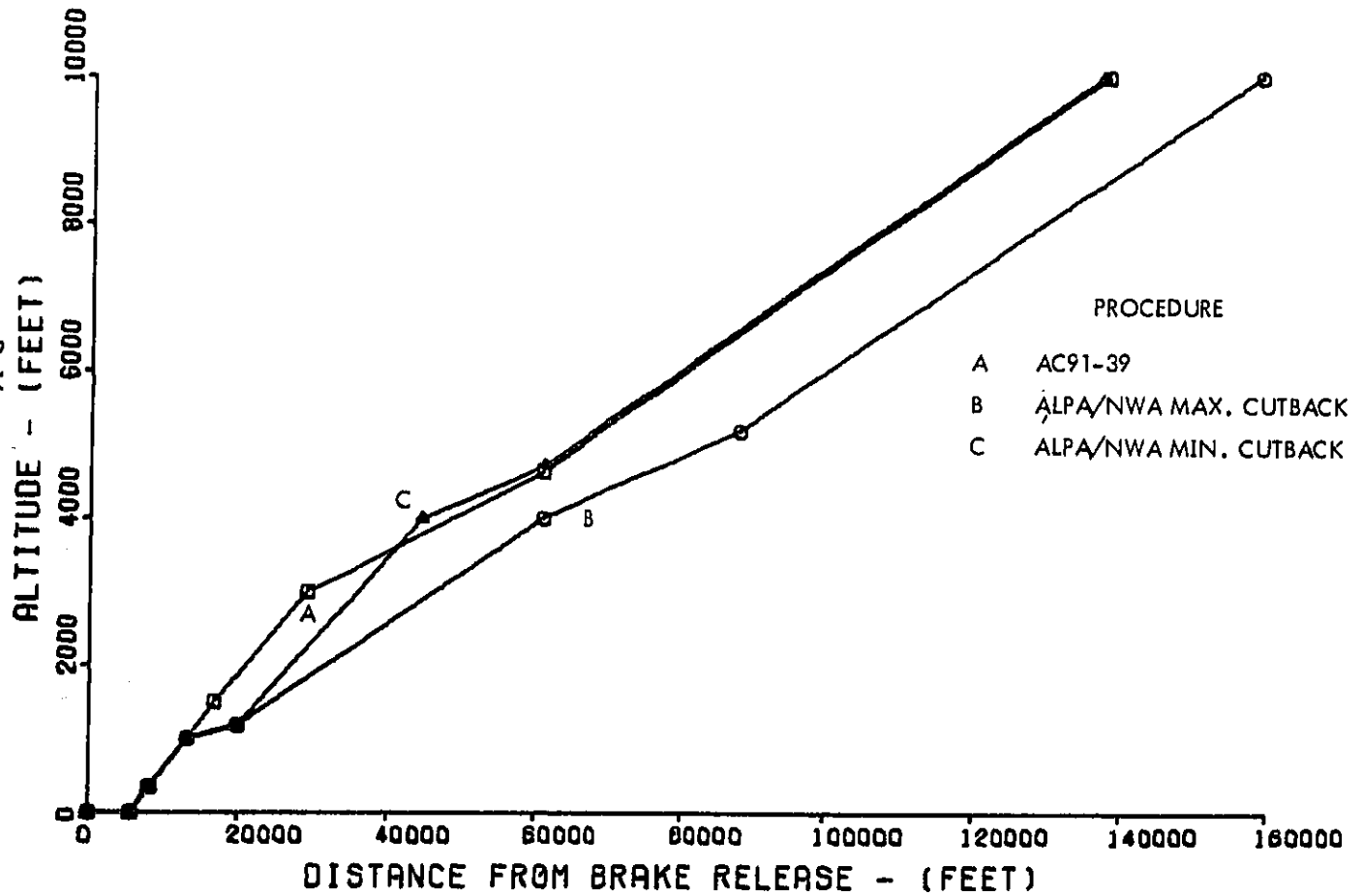
2-/3-ENGINE WIDE BODY

Trip Length 1 and 2 (0-1000 Nautical Miles)



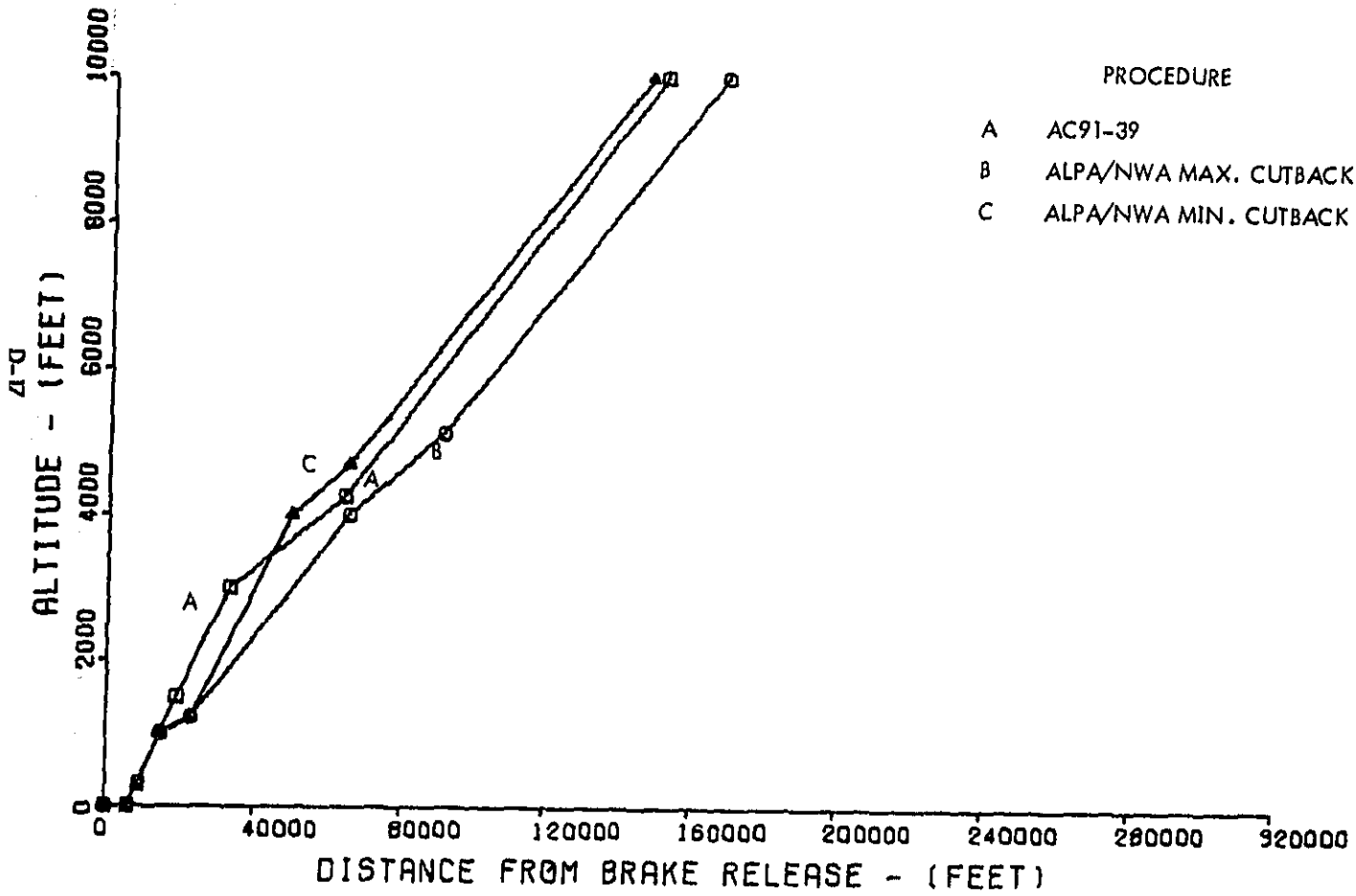
2-/3-ENGINE WIDE BODY

Trip Length 3 (1000-1500 Nautical Miles)



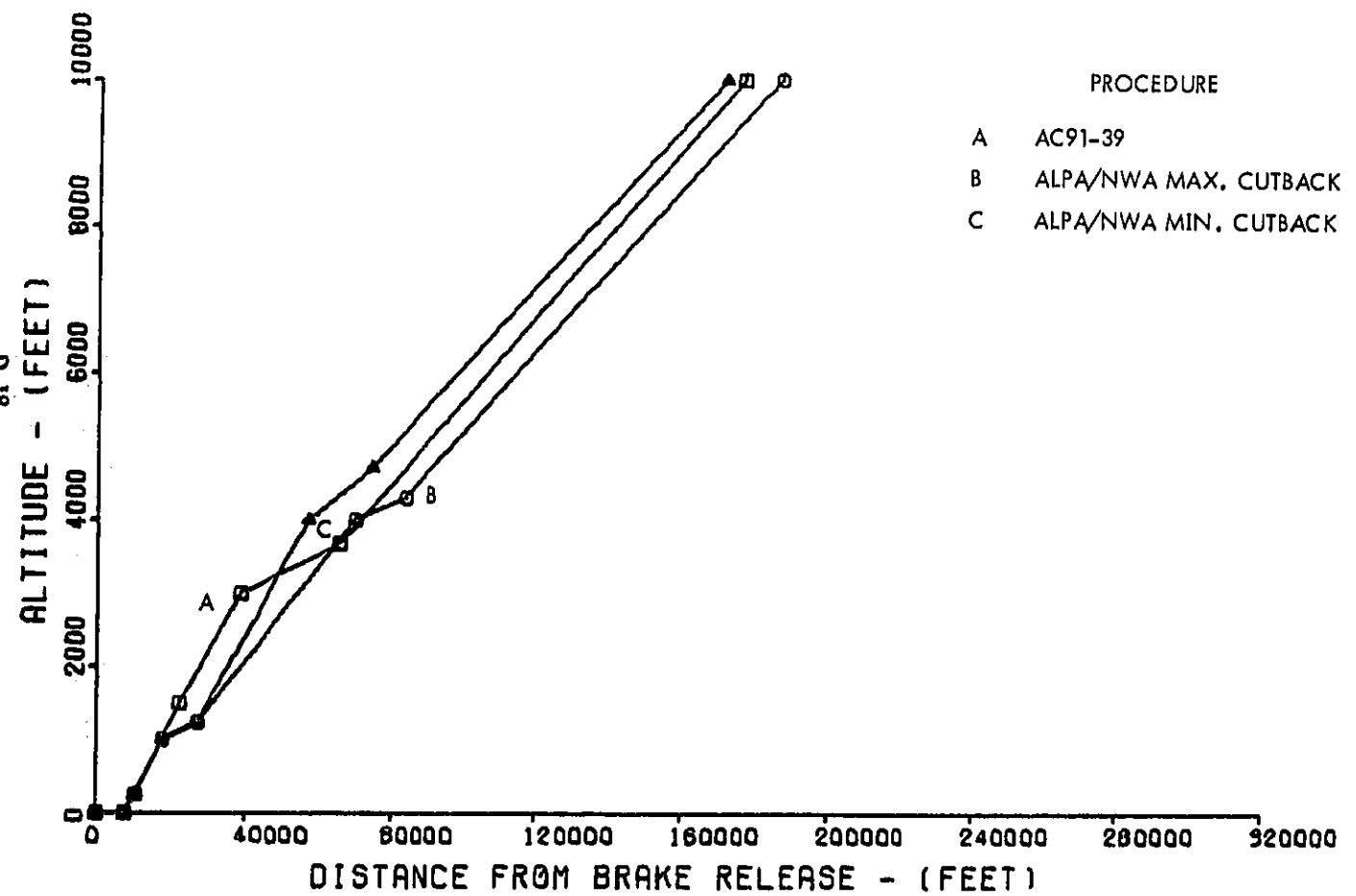
2-/3-ENGINE WIDE BODY

Trip Length 4 (1500-2500 Nautical Miles)



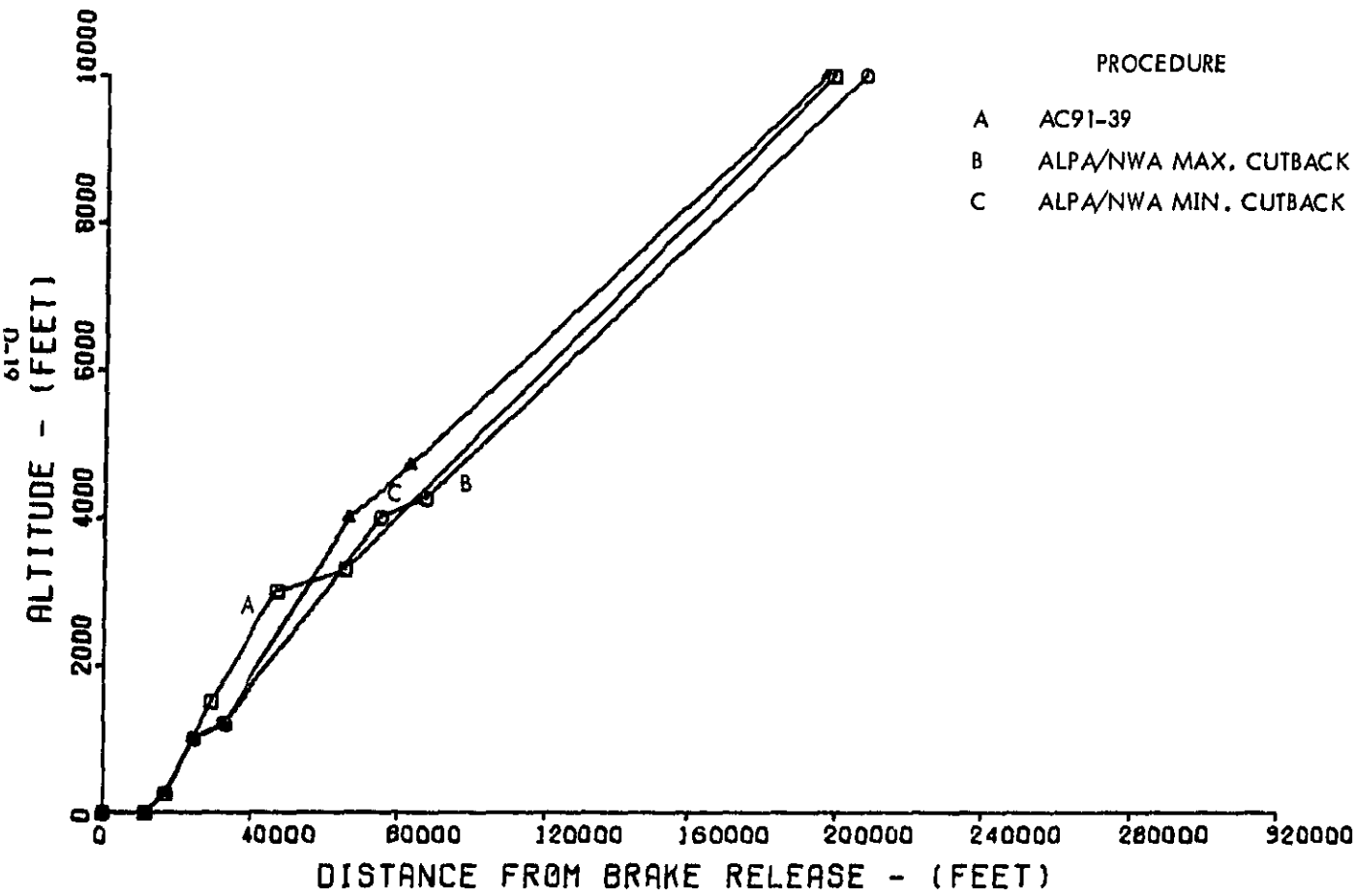
2-/3-ENGINE WIDE BODY

Trip Length 5 (2500-3500 Nautical Miles)



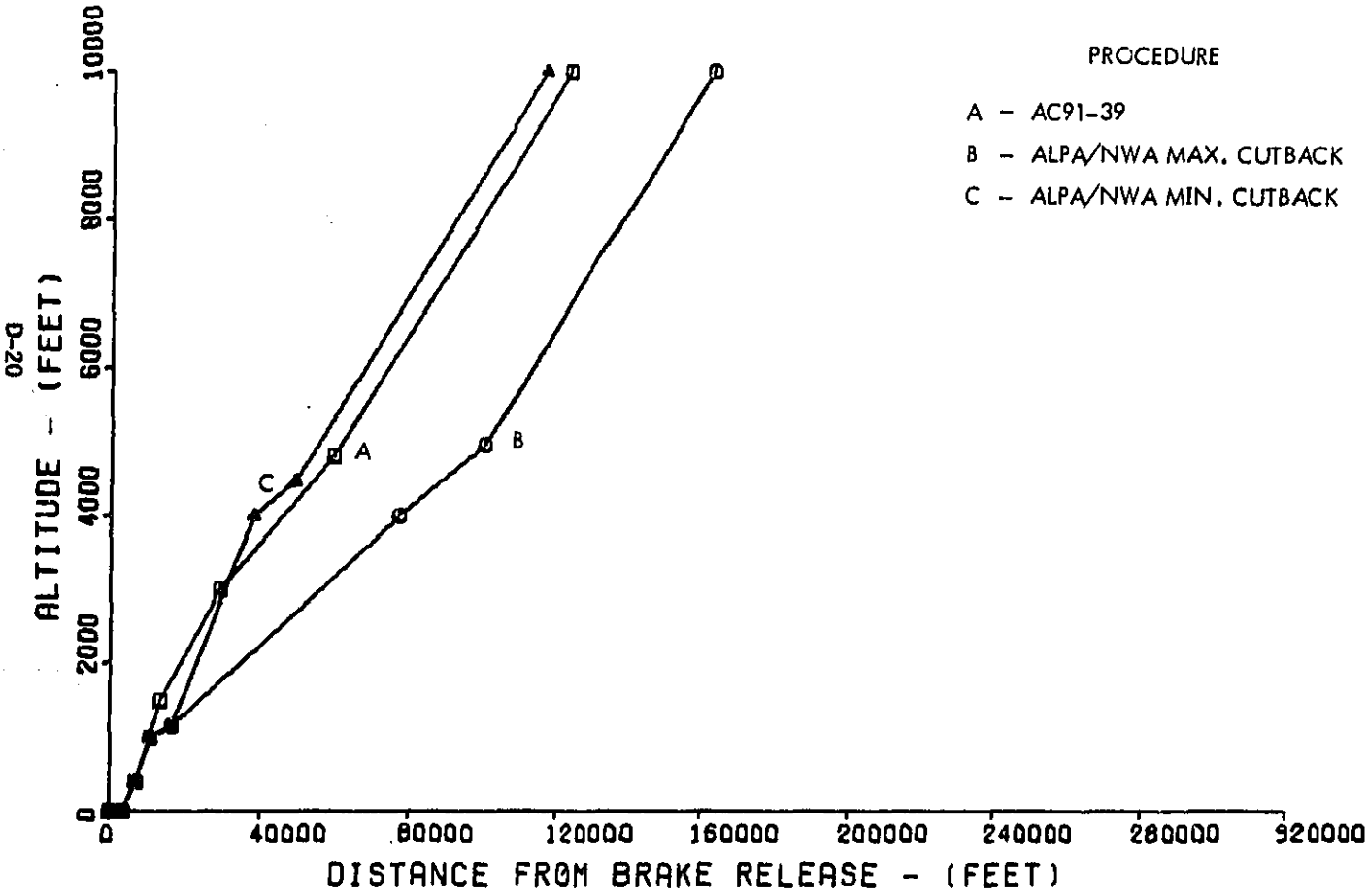
2-/3-ENGINE WIDE BODY

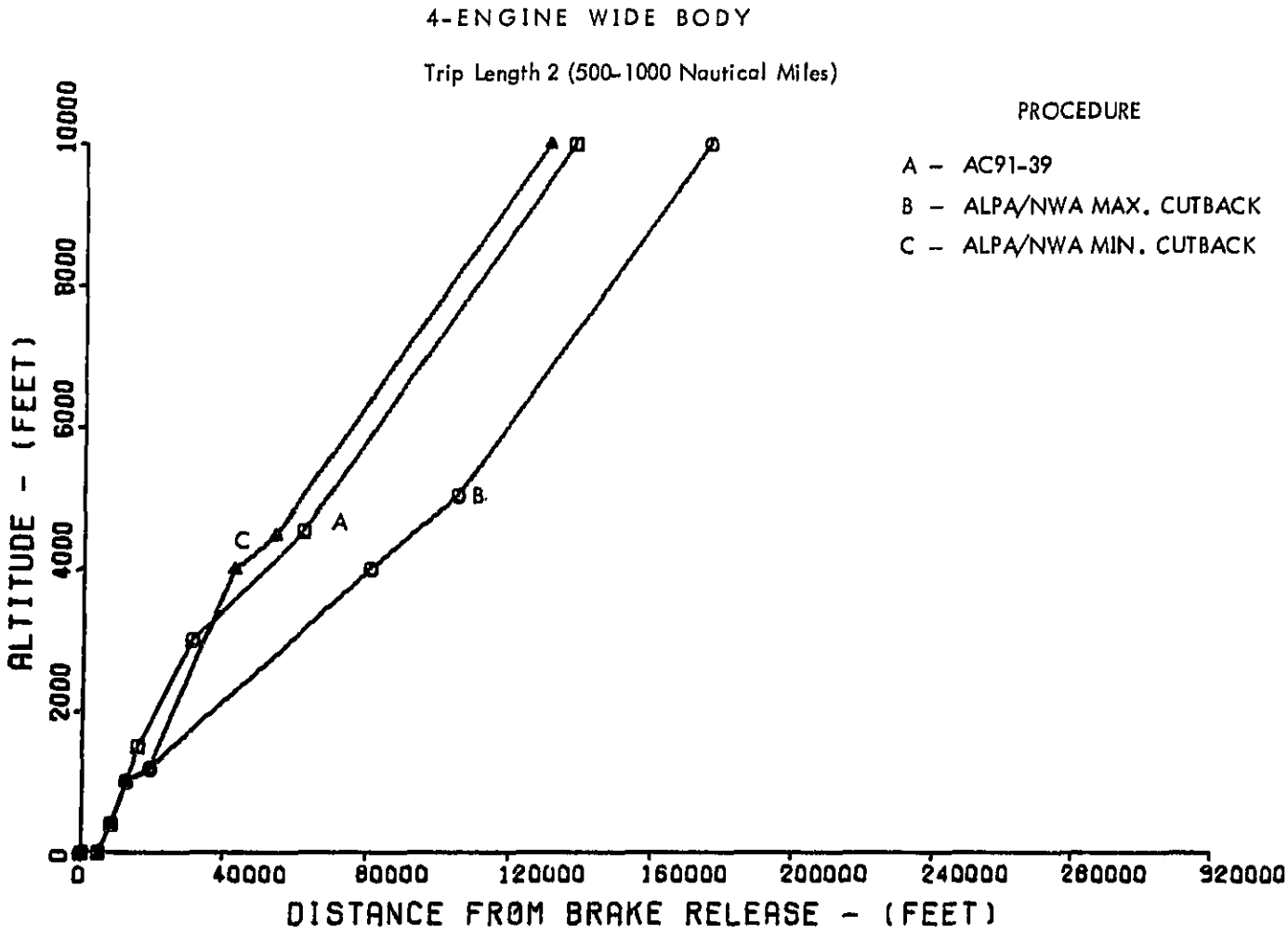
Trip Length 6 and 7 (3500+ Nautical Miles)



4-ENGINE WIDE BODY

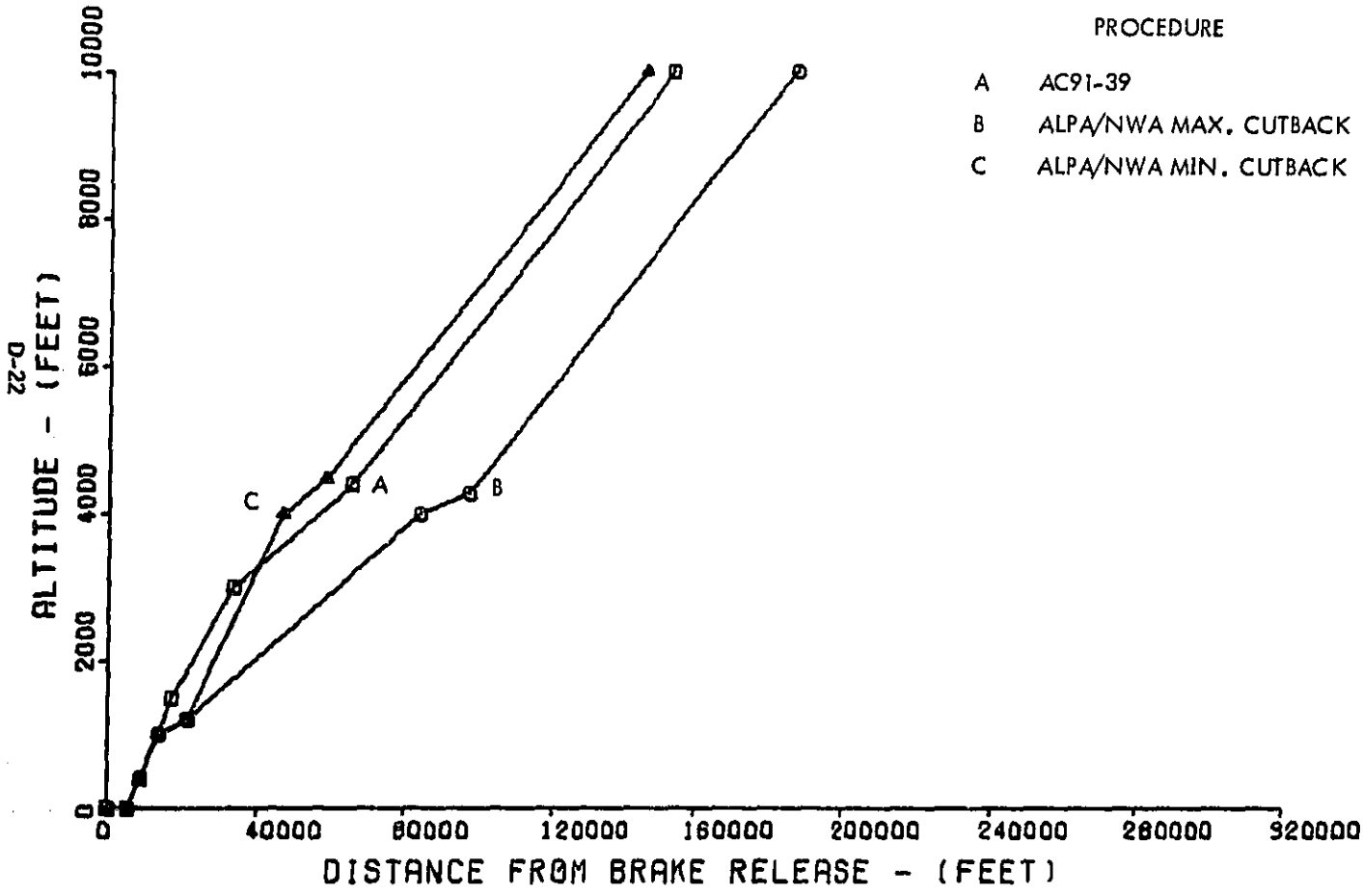
Trip Length 1 (0-500 Nautical Miles)




4-ENGINE WIDE BODY
Trip Length 2 (500-1000 Nautical Miles)
PROCEDURE
A – AC91-39
B – ALPA/NWA MAX. CUTBACK
C – ALPA/NWA MIN. CUTBACK
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
DISTANCE FROM BRAKE RELEASE - (FEET)
0
40000
80000
120000
160000
200000
240000
280000
320000
A
B
C

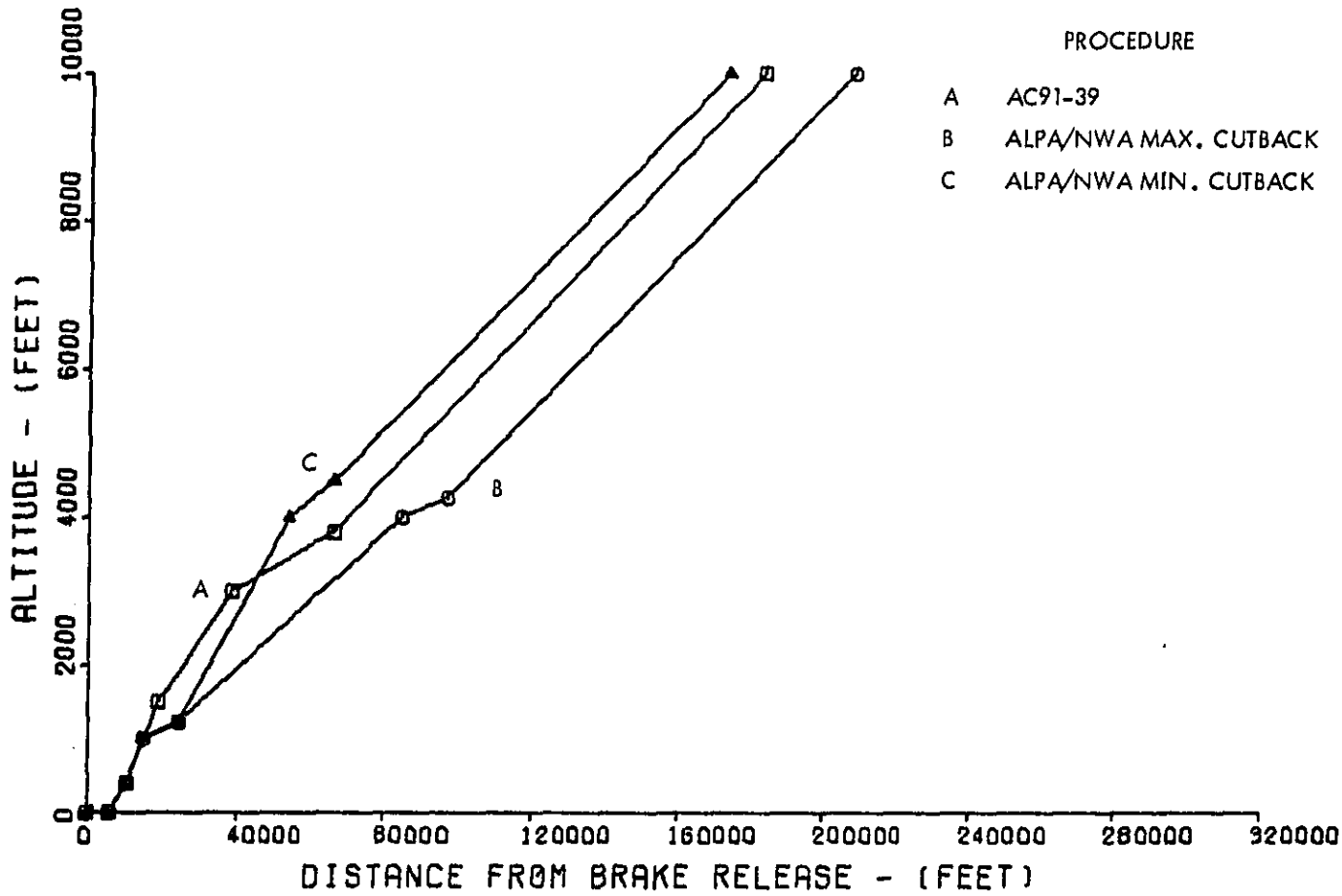
4-ENGINE WIDE BODY

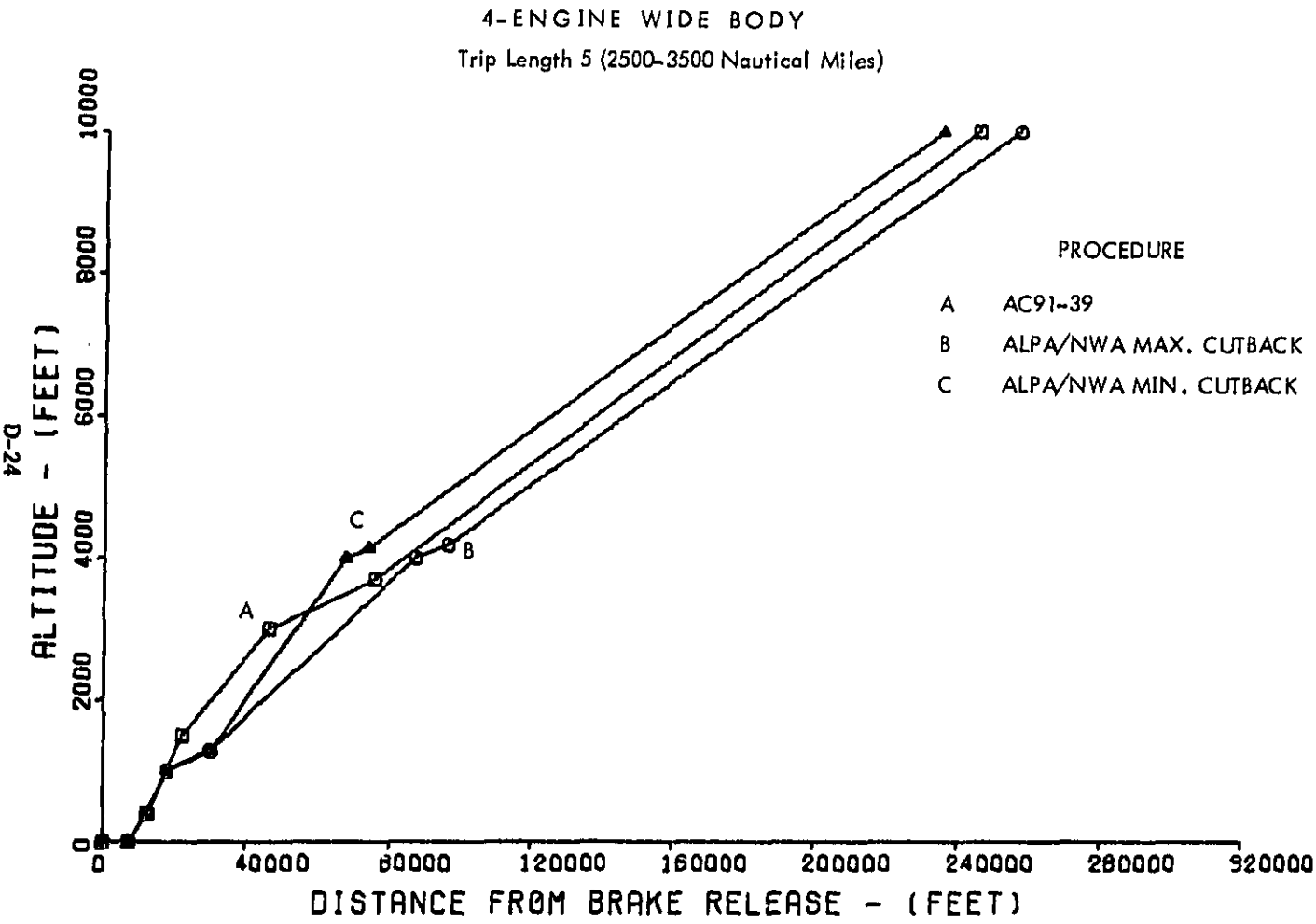
Trip Length 3 (1000-1500 Nautical Miles)



4-ENGINE WIDE BODY

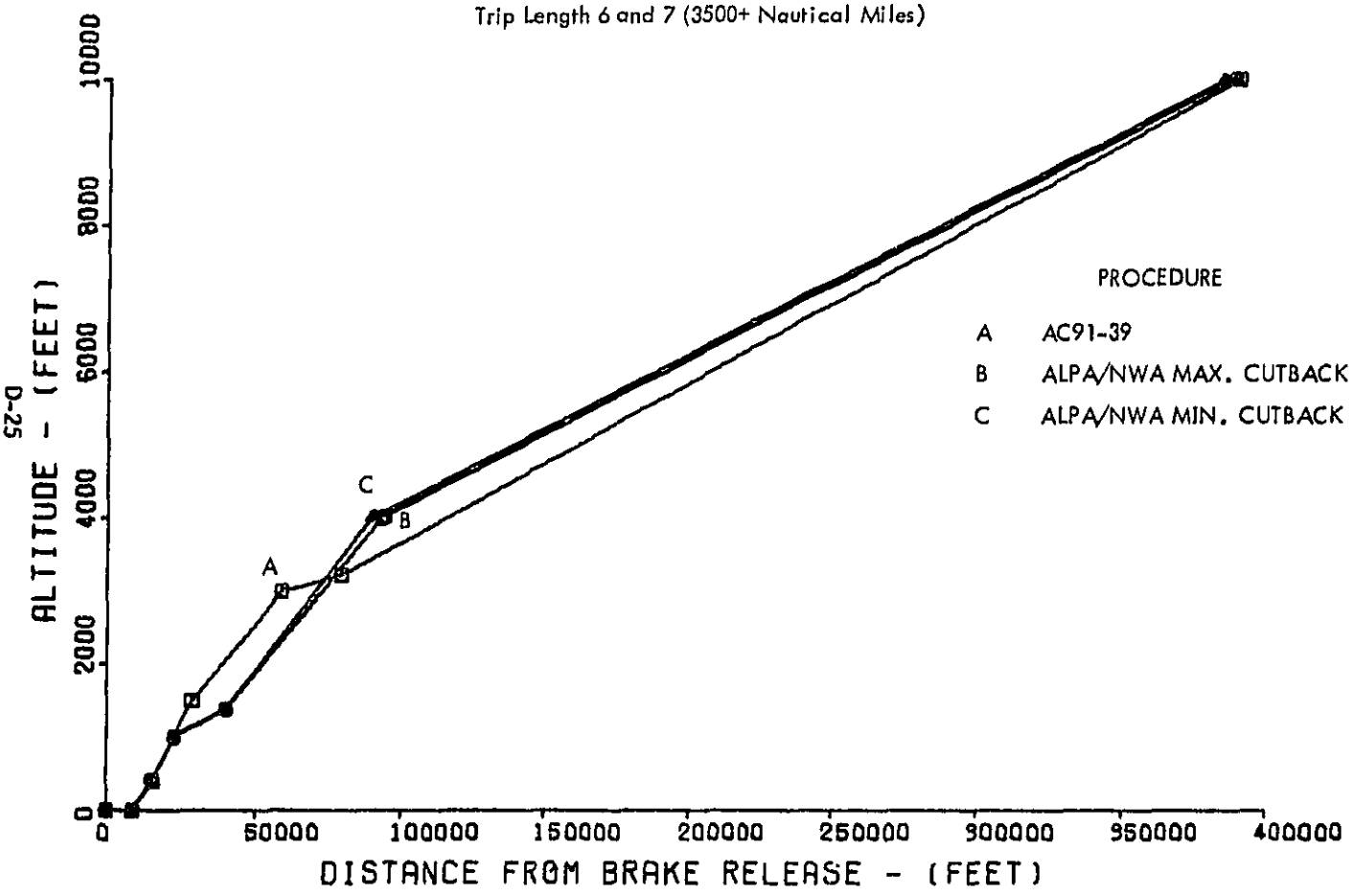
Trip Length 4 (1500-2500 Nautical Miles)




4-ENGINE WIDE BODY
Trip Length 5 (2500-3500 Nautical Miles)
ALTITUDE - (FEET)
0
2000
4000
6000
8000
10000
0
40000
80000
120000
160000
200000
240000
280000
320000
DISTANCE FROM BRAKE RELEASE - (FEET)
PROCEDURE
A AC91-39
B ALPA/NWA MAX. CUTBACK
C ALPA/NWA MIN. CUTBACK
A
B
C

4-ENGINE WIDE BODY

Trip Length 6 and 7 (3500+ Nautical Miles)



APPENDIX E

Supersonic Aircraft Noise Exposure

The appendix contains an analysis of the expected range in noise exposure to the year 2000 due to operation of supersonic aircraft according to various scenarios. All references called out in the text of this appendix are listed at the end of this appendix.

Introduction

The objective of this study was to estimate the national noise exposure for several alternatives supersonic transport (SST) fleets. The national noise exposure was estimated in terms of the land area within selected DAY-NIGHT LEVEL (DNL) contours and in terms of the number of people within these contours. Several sizes of worldwide SST fleets were examined as well as several technologies of SST aircraft representing source noise characteristics ranging from current Concorde aircraft to future aircraft with reduced noise emissions.

Background

As part of a comprehensive study to estimate the national exposure from all aircarrier aircraft, this special SST analysis was conducted to determine the extent to which SST operations might establish a "floor" for noise exposure of the aircarrier fleet. This analysis also provided background information to help evaluate whether noise regulations for SST aircraft are consistent with regulations for subsonic aircraft. For example, it would be inconsistent to require reductions in noise emissions for conventional aircraft only to have these reductions offset by SST operations.

Similar methods were used in this portion of the study to estimate the national SST exposure as will be used to evaluate the subsonic fleet in other portions of the study. The national noise exposures were estimated by computer simulations of aircraft noise at a hypothetical airport, which is referred to as an AVport and represents a specific class of airports across the country.

Seventeen alternative SST fleets were examined in this study. These fleets were comprised of four different technologies of SST aircraft which were combined in specified proportions so as to represent total worldwide fleet sizes of 16, 40, 60, 80 and 100 SST aircraft. The four technology levels are defined in Table 1 along with the number and type of each aircraft considered in each of the 17 fleet alternatives.

This report will document how the average airport was developed for the SST analysis and will present noise exposure estimates obtained from the computer simulations of the noise at this airport. The method used to relate these AVport results to national results will also be presented. First, the general approach will be presented and then the details of the method will be reviewed.

Table 1

SST Technology Level Classifications

Worldwide Number of SSTs	Technology Level			
	1	2	3	3A
16	16 Concorde *			
40	40 Concorde	16 Concorde 24 69 FAR 36**	16 Concorde 24 75 FAR 36†	16 Concorde 24 80 FAR 36††
60	60 Concorde	16 Concorde 44 69 FAR 36	16 Concorde 44 75 FAR 36	16 Concorde 44 80 FAR 36
80	80 Concorde	16 Concorde 64 69 FAR 36	16 Concorde 64 75 FAR 36	16 Concorde 64 80 FAR 36
100	100 Concorde	16 Concorde 84 69 FAR 36	16 Concorde 84 75 FAR 36	16 Concorde 84 80 FAR 36

* "Concorde" SST's exhibit noise and performance characteristics of existing Concorde aircraft.

** "69 FAR 36" SST's have performance characteristics of existing Concorde aircraft but have noise emissions compatible with the 1969 FAR 36 requirements.

† "75 FAR 36" SST's have performance characteristics of existing Concorde aircraft but have noise emissions compatible with 1975 FAR 36 requirements.

†† "80 FAR 36" SST's have performance characteristics of existing Concorde aircraft but have noise emissions compatible with EPA's proposed 1980 FAR 36 requirements.

Summary of Prediction Method

Figure 1 outlines the procedure used to estimate national expcsures. In Step 1, the AVport was defined and the noise exposure area was calculated. To define the AVport, average runways, flight tracks, aircraft performance, aircraft noise levels and operational levels were obtained from the best estimates of these parameters for the 13 airports in AVport Category A (considered for SST operations). The noise exposure areas for a family of DNL values were calculated for the AVport by exercising the Wyle Integrated Noise Model (INM).

In Step 2, equations for each DNL level were developed which relate the noise exposure area to the number of SST operations. Although AVport areas were calculated directly for only one level of operations, noise exposure areas for other operational levels were derived from the relationship

$$\left[DNL = SEL + 10 \log \left(N_D + 10\, N_N\right) - 49.4\right] \qquad (1)$$

where SEL = Sound Exposure Level and N_D, N_N = Day and Night operations respectively.

From the Equation (1) it can be seen that a point on the 65 DNL contour for a single operation (N = 1) represents a point on the 68 DNL contour for two operations. By associating the area within each contour with several operational levels and several noise exposure values, a family of noise contour area vs operations data points was developed for each DNL contour level of interest. A table of operations and associated noise exposure area was then developed which could be used to estimate noise exposure area at actual airports.

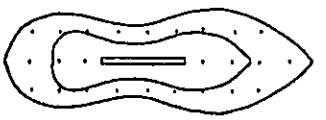
In Step 3, the national area was estimated from the AVport area. For each airport in the AVport A Class, the exposure area was estimated using the proposed number of SST operations and the contour area vs operations table developed in the preceding step. Then the national noise exposure was estimated by summing the exposure areas from the individual airports.

It would have been desirable to compare this estimate of national area exposure with exposure estimates based on detailed analysis at each airfield. However, these detailed estimates were not available for SST operations alone.

Figure 1

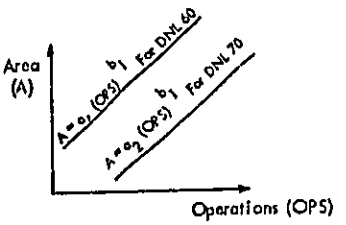
POPULATION VS CONTOUR AREA METHOD

1. AVport Noise Exposure Area



Define the AVport and calculate AVport Noise Exposure Areas.

2. Noise Exposure Area vs OPS



Develop an Area vs Operations Function for Each Exposure Level, for each AVport Alternative. These Functions are Developed from the AVport Noise Exposure Areas.

3. National Noise Exposure Area

Airport	OPS	Area = a (OPS)^b
JFK	•	•
IAD	•	•
LAX	•	•
•	•	•

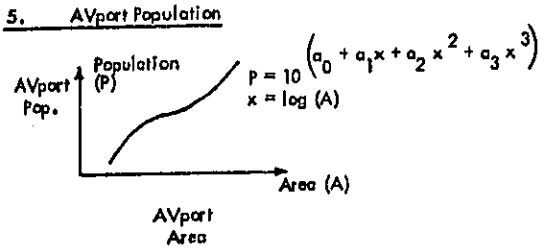
$\sum$ Area = National Area

Calculate the National Noise Exposure Areas From the Operations at each Airport and the Area vs Operations Functions.

4. Scaling Factor = $S = \frac{\sum \text{Areas}}{\text{AVport Area}}$

Calculate the Scaling Factor.

5. AVport Population



Develop a Population vs Area Expression From Reference 2 Data. AVport Populations are Found From this Function and From the AVport Areas.

6. National Population

National Population = AVport Population x Scale Factor

In Step 4, a scaling factor was developed for use in estimating national population exposures from AVport population exposures. This scaling factor was merely the ratio of the national exposure area to the noise exposure area for the AVport area. Only one scale factor was developed for all SST options because identical climb and power schedules were assumed for all alternative SST configurations. This assumption meant that the SST alternatives differed only in source noise level and consequently a single scale factor could be used.

In Step 5, an expression was developed which related the exposed population within a noise contour to the area within the contour. This expression was developed by fitting a third order polynomial to a set of population/area data points. Each data point was developed from data contained in References 1 and 2 by taking the average contour area and population for all relevant airports for one operational alternative. For example, one data point would represent the average area and population for the 1972 baseline case for all Category A airports. Since many dissimilar conditions and operational alternatives were included in the referenced studies, this population vs area curve was valid for a wide range of contour shapes resulting from different operational assumptions.

By using this equation, the exposed population at an AVport could be calculated from the exposure area at that AVport.

In Step 6, the national exposure area was calculated by multiplying the AVport populations by the scaling factor. For computational convenience Steps 5 and 6 were combined by incorporating the scaling factor into the population vs area equations. Exposed population and exposure areas were calculated in this manner for each of the 17 SST options.

Detailed Description of the AVport Model

The AVport was constructed to represent a particular class of airports across the country. For the SST analysis, AVport A was constructed to represent the candidate airports for SST operations listed below.

IAD (Dulles)	SFO (San Francisco)	SEA (Seattle-Tacoma)
JFK (Kennedy)	ANC (Anchorage)	MIA (Miami)

HNL (Honolulu)	ORD (O'Hare)	IAH (Houston)
PHL (Philadelphia)	BOS (Boston)	DFW (Dallas-Ft. Worth)
LAX (Los Angeles)		

AVport Runways. AVport A contained one physical runway whose length was determined by taking a weighted average of the lengths of all runways at the AVport A airports. The number of operations on each runway was used as the normalizing factor in preparing the weighted average. This analysis resulted in a runway length of 10,300 feet. The number of operations on each runway was obtained from References 1 and 2.

AVport Flight Tracks. AVport A flight tracks were developed to represent an average of the flight tracks used by all aircraft at the 13 airports in this class. Three takeoff and three landing tracks were assumed in each direction; one turning left, one turning right, and one straight out. The decision to use three tracks was somewhat arbitrary and was chosen as a middle ground, providing some accounting for dispersion but not spreading operations so thinly as to eliminate the long fingers of exposure that are apparent at many airports. The locations of these tracks were determined by the following procedures:

The average distance to the first turn and the angle of the first turn were tabulated for all flight tracks at all airports. Then for all takeoff tracks turning to the right, the weighted average distance to turn and the average angle of the first turn were calculated using the number of operations as a weighting factor. This established an average right turn track for takeoffs. This procedure was repeated for left turn takeoffs, right turn landings and left turn landings. Only the percent of operations was needed to define straight tracks. This analysis showed that the average distances and angles were very similar for left and right turns. Consequently, the AVport was constructed symmetrically about the extended runway centerline using the average distances and angles obtained from the track analysis. The differences between geometrical parameters for the right and left tracks as well as the average distances and angles are shown in Table 2.

Table 2

Average Flight Track Dimensions for Category A Airports

	Takeoffs				Approaches			
	Distance to First Turn (Nautical Miles)		Angle of First Turn (Degrees)		Distance to First Turn (Nautical Miles)		Angle of First Turn (Degrees)	
	Right	Left	Right	Left	Right	Left	Right	Left
Mean	2.2	2.9	73.8	73.5	10.9	9.3	101.4	90.3
Overall Mean	2.55		73.6		10.1		95.8	

The flight tracks, runways, and the percentages of operations on each track are shown in Figure 2. The percentages were based on weighted averages of left, right and straight flight tracks at the 13 SST airports.

Number of SST Operations. The number of SST operations was determined by matching the estimates of SST operations given in the FAA Draft "EIS for Noise and Operations of Supersonic Aircraft"[3] with fleet sizes specified in the statement of work. The draft EIS projected a maximum of 108 daily operations for a worldwide fleet of 40 SST aircraft. Subsequent to the draft EIS, Philadelphia International Airport was added to the analyses and had 10 daily SST operations, bringing the grand total to 118 daily operations within the United States for a presumed total worldwide fleet of 40 SST aircraft. All operations were assumed to occur in the daytime period. Note that 1 operation is either 1 takeoff or 1 landing. The number of daily operations, nationally, for various SST fleet sizes is shown in Table 3.

To insure that these numbers of operations were reasonable, a brief analysis was conducted to determine the number of aircraft that would be required to generate these operations, given the constraints imposed by flight times and curfews. Figure 3 presents a possible scenario for transatlantic flights and shows that four daily operations at U.S. airports

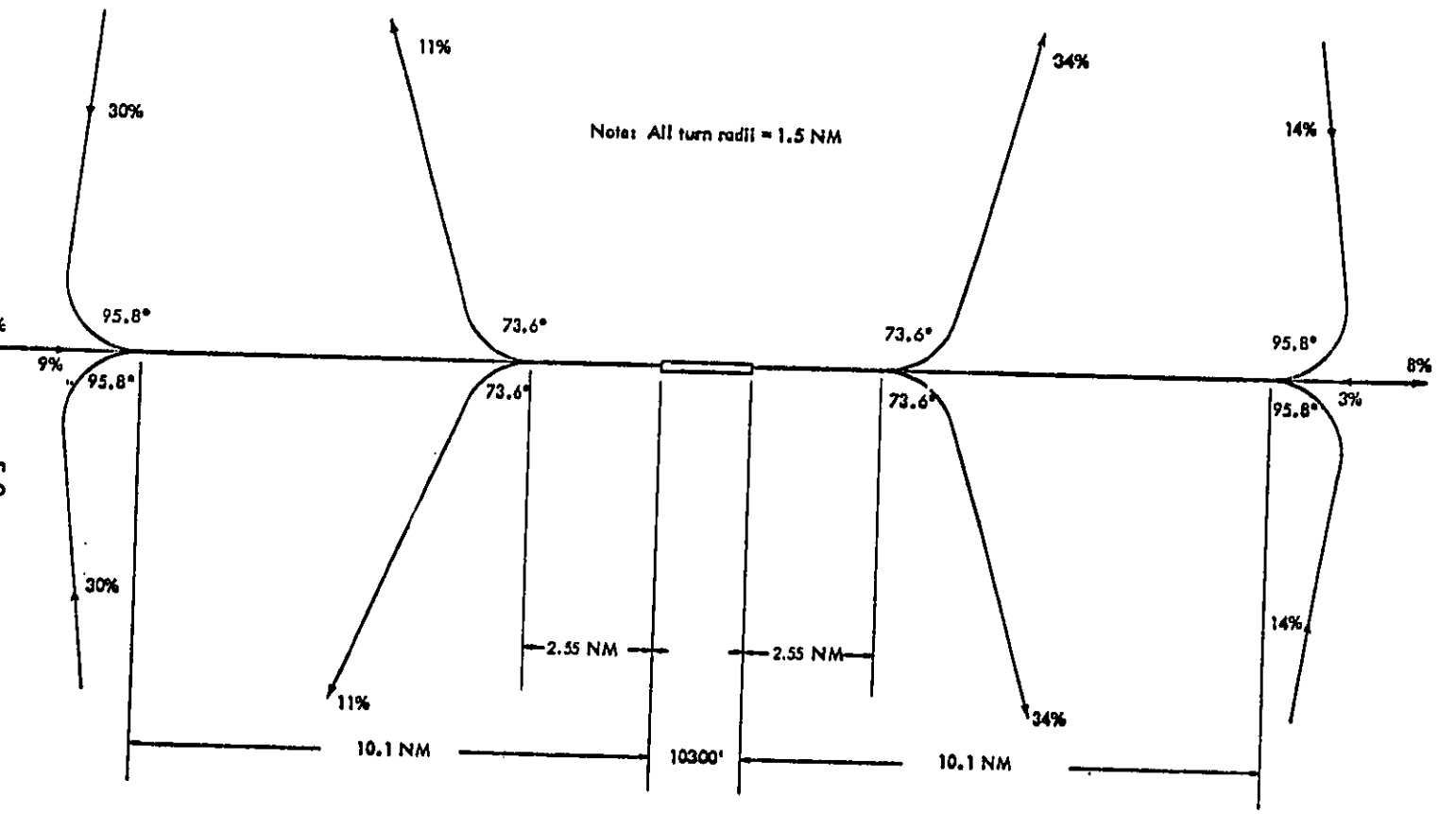


Figure 2. AVport A Configuration

Table 3

SST Worldwide Fleet Sizes and
Daily Operations in the United States

SST Fleet Size	Number of Daily SST Operations in the United States
16	47
40	118
60	177
80	236
100	295

(i.e., two daily round trip flights) can be generated by one SST flying a transatlantic route. It was also assumed that 10 intra-United States operations (e.g., five one-way flights between, say, JFK and ORD or DFW) could be generated daily by one SST. Next, the projected numbers of SST operations at each airport given in the draft EIS were categorized by destination as either foreign or domestic. The numbers of aircraft required to perform these operations were then estimated by assuming four foreign-bound operations per SST and 10 domestic operations per SST. The corresponding estimates of required aircraft at each airport are shown in Table 4.

Note that 25.8 aircraft are required to perform the 118 operations at U.S. airports. These figures are based on a fleet size of 40 aircraft and, with the foregoing assumptions, indicate that about 65 percent of the world SST fleet would be used for operations to and from airports in the United States.

Figure 3

Scenario for Maximum Probable Frequency of
Transatlantic Operations by One SST Aircraft

	United States Operations Dulles (IAD)						European Operations Heathrow (HTR)			
Day	Turn Around (hrs.)	Leaves (hrs.)	Arrives (hrs.)		Flight Time (hrs.)	Time Shift (hrs.)		Arrives (hrs.)	Leaves (hrs.)	Turn Around (hrs.)
0					+4	+5	→	0700	→	2
1	2	←	0800	←	+4	-5	←		0900	↲
1	↳	1000	→		+4	+5	→	1900	→	2
1	2	←	2000	←	+4	-5	←		2100	↲
1	↳	2200	→		+4	+5	→	0700		

Assumptions:

Flight Time = 4 hours, Turn-Around Time = 2 hours

Operating Window

IAD 0800-2200
HTR 0700-2100.

For this scenario, one SST could make two round trips per day and generate four operations per day at IAD.

Table 4

Comparison of Operations and Fleet Size

Airport	Daily SST Operations			Estimated Number of SST Aircraft Required
	Total	U.S.*	Foreign**	
JFK	50	10	40	11.0
IAD	10		10	2.5
ANC	8		8	2.0
BOS	4		4	1.0
DFW	1	1		0.1
HNL	4	2	2	0.7
LAX	6	2	4	1.2
MIA	6	3	3	1.0
IAH	1	1		0.1
ORD	6	5	1	0.7
SEA	2		2	0.5
SFO	10		10	2.5
PHL	10		10	2.5
Total	118	24	94	25.8

*Operations that originate and end at U.S. airports.

**Operations that have one foreign terminus and one U.S. terminus.

Noise Levels. The baseline SST noise data used for this study were taken from Reference 1. These baseline data were adjusted to represent future SST aircraft for which more stringent noise requirements were assumed. The method used to transform the baseline noise data into the noise data for future SST aircraft is documented in Section 3.4.4 of this report. The SST noise levels used for this Appendix are shown graphically in Figures 4 through 7.

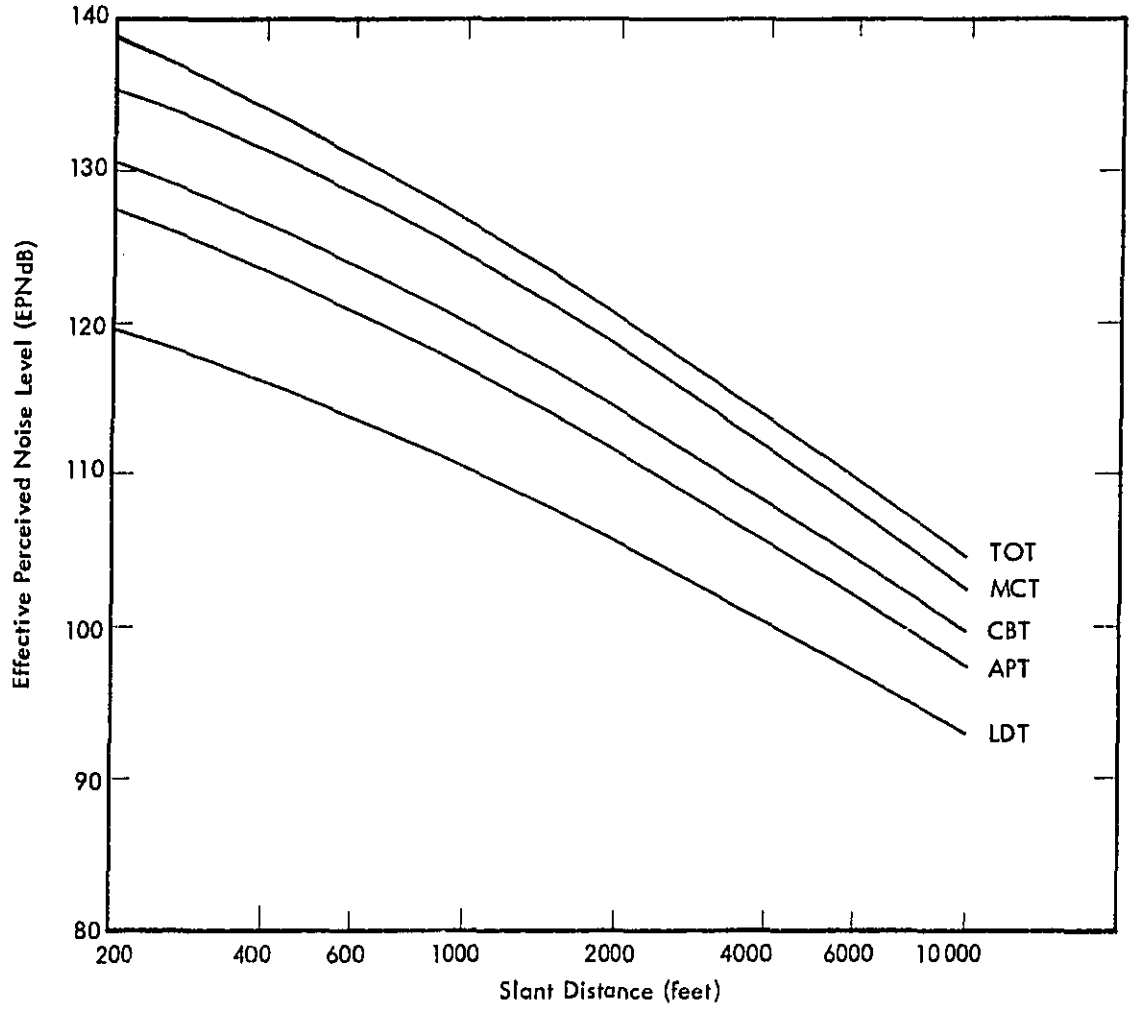


Figure 4. Noise Level (EPNdB) Versus Distance Curves for Concorde Supersonic Transport Aircraft (Technology Level 1)

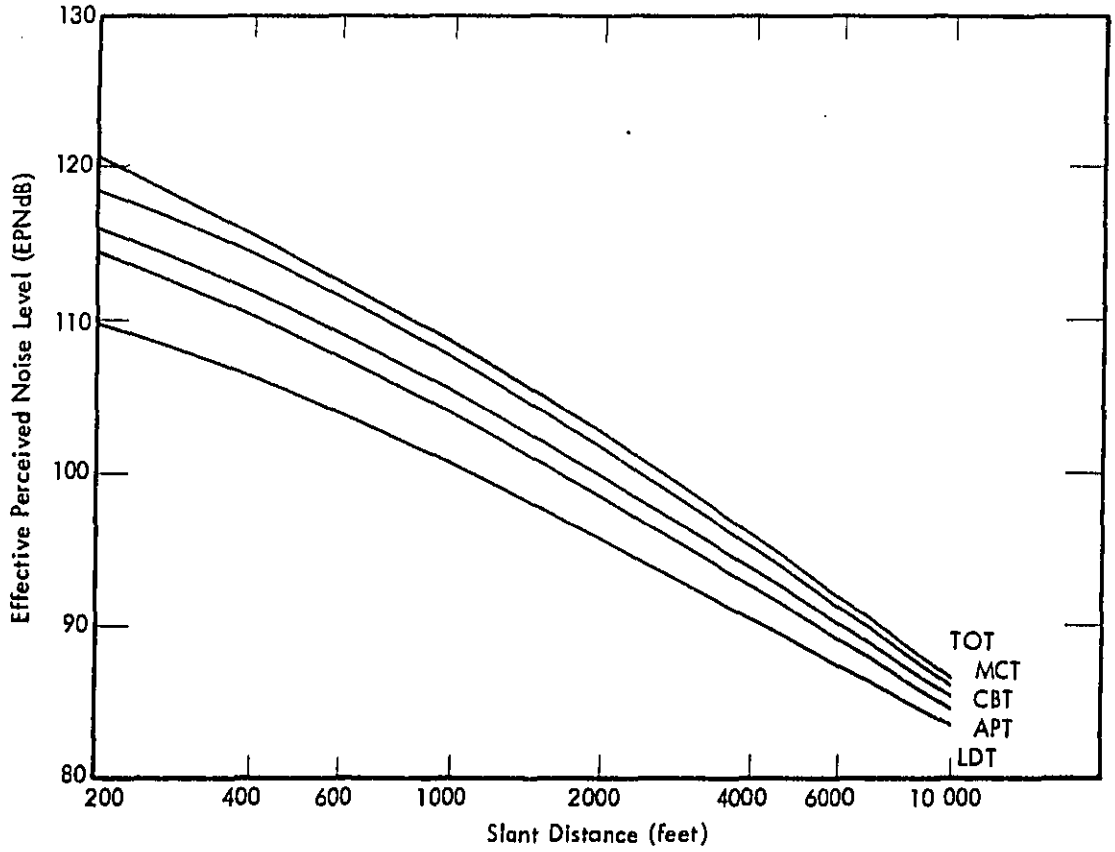


Figure 5. Noise Level (EPNdB) Versus Distance for Supersonic Transport Aircraft Meeting 1969 FAR-36 Regulations (derived from Concorde Curves) (Technology Level 2)

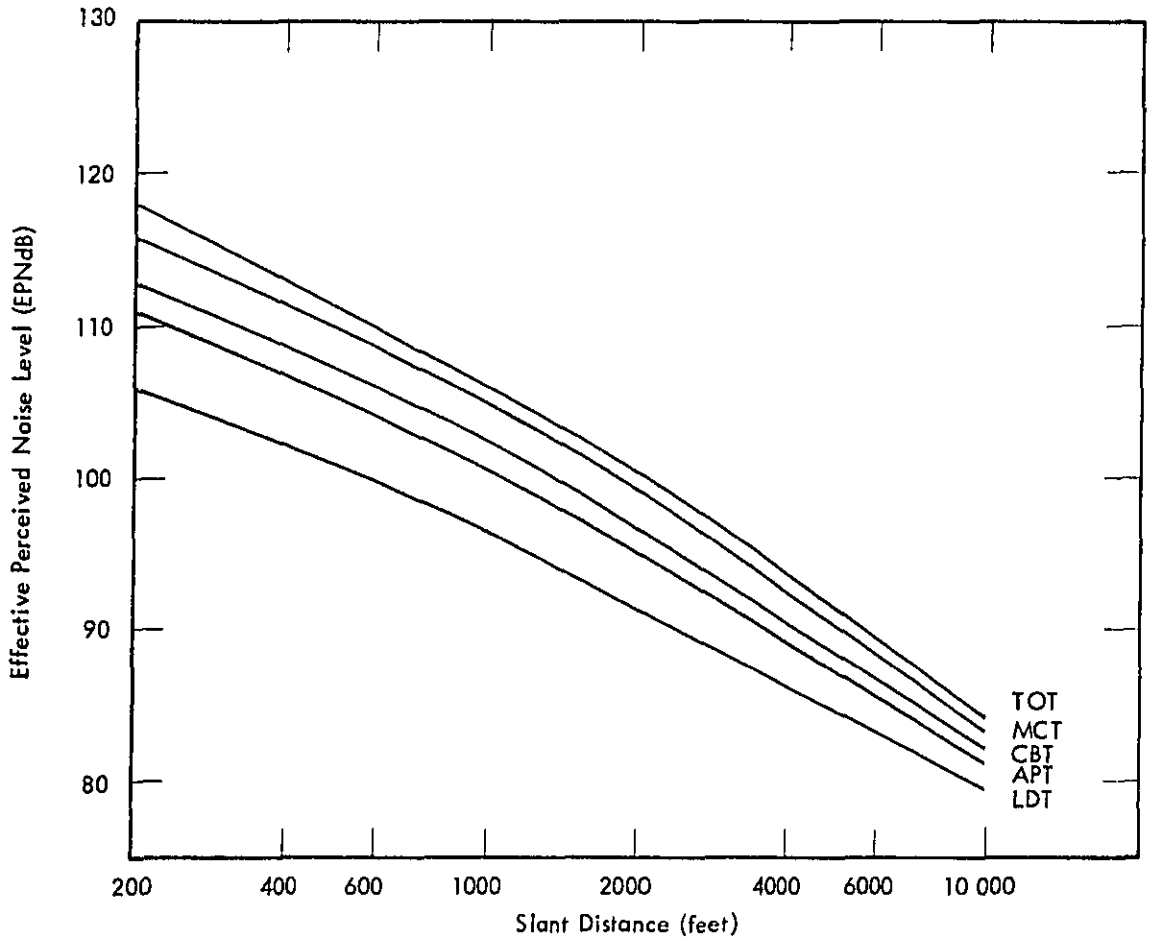


Figure 6. Noise Level (EPNdB) Versus Distance for Supersonic Transport Aircraft Meeting 1975 FAR-36 Regulations (derived from Concorde Curves) (Technology Level 3)

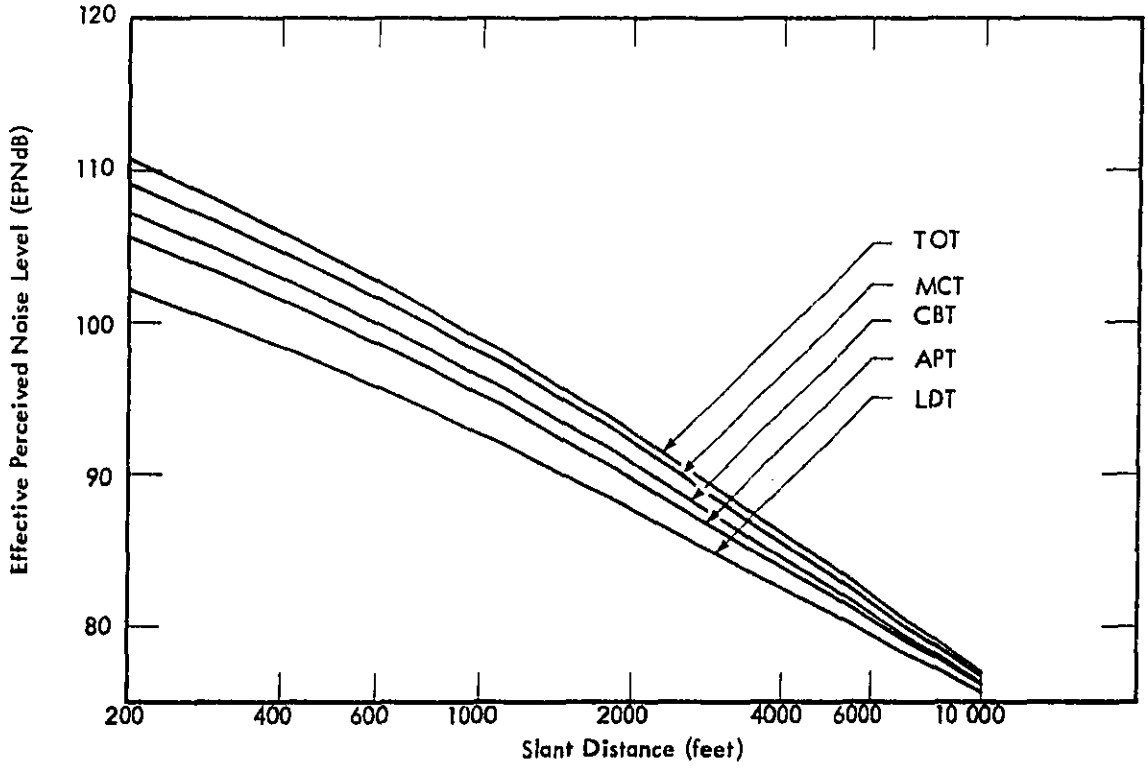


Figure 7. Noise Level (EPNdB) Versus Distance for Supersonic Transport Aircraft Meeting 1980 FAR-36 Regulations (Proposed) (derived from Concorde Curves) (Technology Level 4)

SST Performance. Two takeoff procedures and one approach procedure was used in the AVport model. These procedures were developed by averaging key parameters of the procedures used in previous Concorde studies at the airports in this class. For example, the length and altitude of the level flight segment of the approach glide path were determined by taking a weighted average of level flight distance and altitude from previous studies of the 13 SST airports. Similarly, the length of the cutback segment of the noise abatement procedure was taken as a weighted average of cutback segments from the 13 SST airports. The climb and approach altitude profiles used for this study are shown in Figures 8 and 9.

Results

National Area Exposure. Exposure areas were calculated for numerous sound exposure values at the SST AVport. As described earlier, each exposure area could be related to many combinations of noise exposure level and number of operations. Using this principle, a chart was developed relating the area within specific noise level contours to the number of aircraft operations. A scaling factor was then developed as follows. First, the exposure area at each of the 13 airports was estimated from the number of operations at each airport by using the chart described above. The national area was estimated to be the sum of the areas of the individual airports. The scaling factor was then defined as the national area divided by the AVport area. The scaling factor had an average value of 13.1 which was close to the nominally expected value of 13. After the scaling factor was developed, exposure areas at the AVport were calculated for the levels of operations corresponding to worldwide SST fleet sizes 16, 40, 60, 80 and 100. The national exposure areas for these fleet sizes were calculated by multiplying the AVport area for each scenario by 13.1. These areas are shown in Table 5.

National Population Exposure. In order to determine the number of people exposed to a given noise level, an equation relating the population within a noise contour to the area of the contour was developed from actual census-derived population data and noise contour

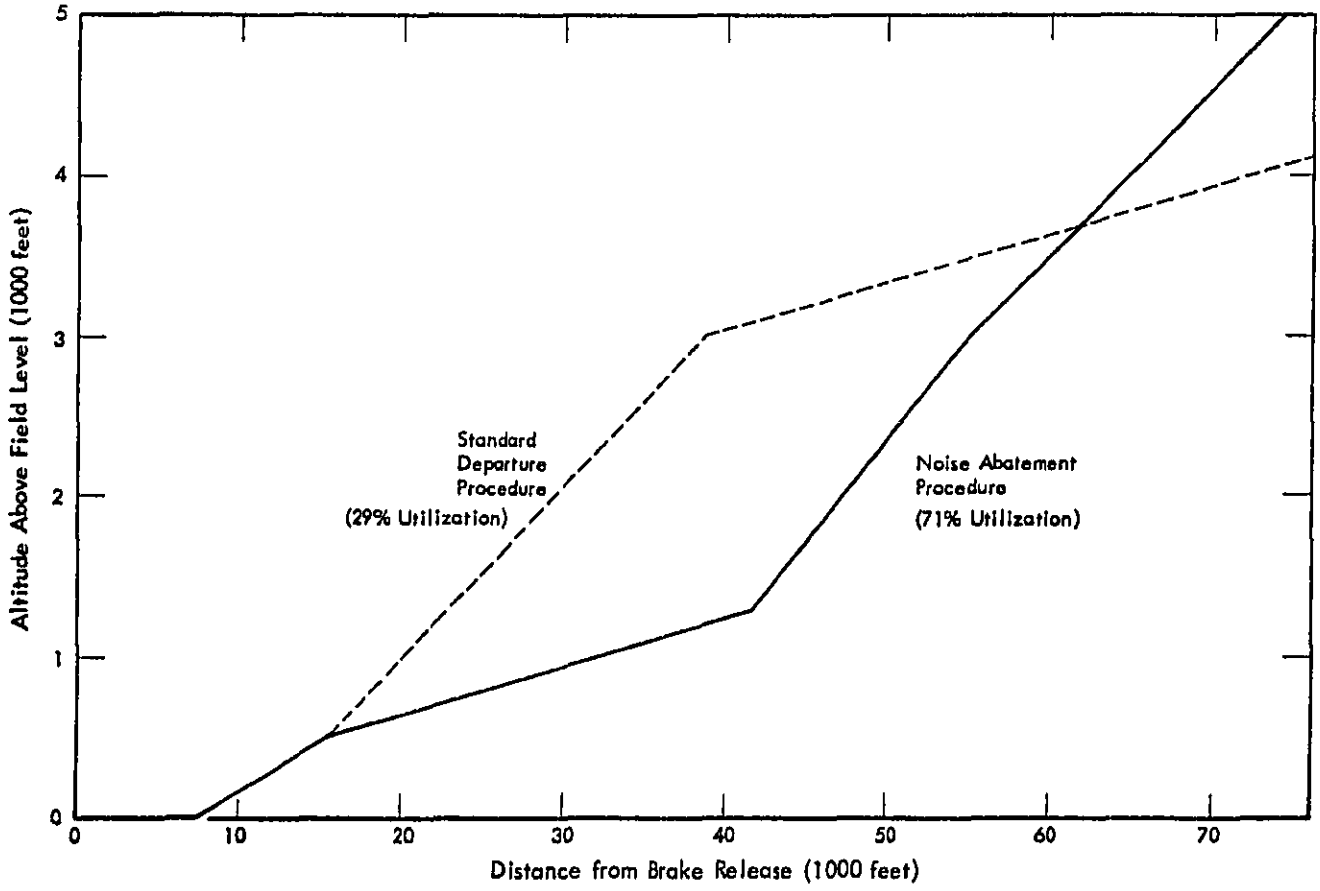


Figure 8. Departure Procedures Used for Supersonic Aircraft at AVport A.

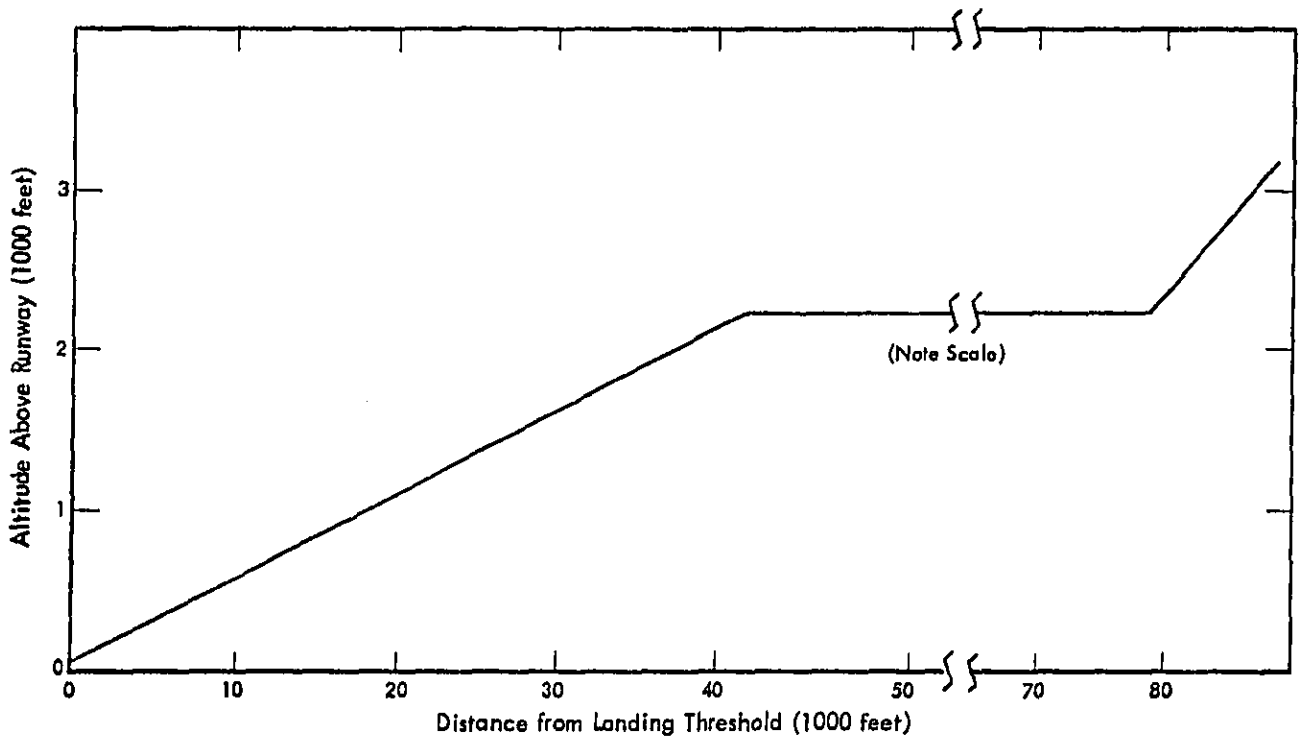


Figure 9. Approach Procedure Used for Supersonic Aircraft at AVport A.

Table 5

Estimated National Noise Exposure of Supersonic Transport Aircraft Operations at 13 Airports Expressed as Total Area and Population Contained Within Day-Night Average Sound Level (L_{dn}) Contours

Fleet Size	National Impact / L_{dn}	TECHNOLOGY LEVEL† 1				2				3							
		65	70	75	80	65	70	75	80	65	70	75	80	65	70	75	80
16	Total Area *	62	24	10	8												
	Population**	48	2	<1	<1												
40	Total Area	142	51	22	9	63	25	10	8	63	25	10	8	62	24	10	8
	Population	266	29	1	<1	51	2	<1	<1	51	2	<1	<1	48	2	<1	<1
60	Total Area	200	66	29	10	64	25	10	8	63	25	10	8	63	24	10	8
	Population	426	57	4	<1	54	2	<1	<1	51	2	<1	<1	51	2	<1	<1
80	Total Area	292	86	38	17	66	25	10	8	63	25	10	8	63	25	10	8
	Population	659	112	11	<1	57	2	<1	<1	51	2	<1	<1	51	2	<1	<1
100	Total Area	359	106	44	18	66	28	10	8	64	25	10	8	63	25	10	8
	Population	819	166	19	<1	57	3	<1	<1	54	2	<1	<1	51	2	<1	<1

Note: * Area figures are expressed as square statute miles.

** Population figures are expressed as thousands of people.

† Technology levels are defined in Table 1.

area data from previous studies.[1,2] This equation has the form

$$P = 10^{\left[a_0 + a_1 x + a_2 x^2 + a_3 x^3\right]}$$

where P is the average enclosed population at any one airport and $x = \log_{10}\left[A_T, \text{mi}^2\right]$

A least-squares fit of this equation to the data points resulted in the following constants:

$$a_0 = -2.3937$$

$$a_1 = 6.5631$$

$$a_2 = -3.7810$$

$$a_3 = 0.8646$$

and a graph of the equation is shown in Figure 10. Each data point from which this curve was developed was found by taking the average contour area and average enclosed population for a given operational condition at the 13 study airports.*

This equation relates enclosed population at an average airport to the area at that average airport. For computational convenience, $b_0 = -1.2798$ can be substituted for a_0 and x can be expressed as $\log\left(\frac{A_N}{13}\right)$ where $\left(A_N\right)$ equals national area. By using this form, national population can be computed directly from national area. Using this transformed equation and the national area exposures previously calculated, the number of people exposed to various noise levels was calculated for the various SST scenarios. These population figures are shown in Table 5 along with the area exposures.

The population and area exposure estimates developed in this study will serve as a basis for comparison when estimates of national exposure for all aircarrier aircraft become available.

*The above regression equation provides population figures which differ slightly (i.e., within 1-2% for P>6000 people) than those obtained for AVport A in the analysis for subsonic aircraft. The population/contour area regression equation for the latter, defined in Section 3.6 of the text, was based on a slightly different and more accurate data base.

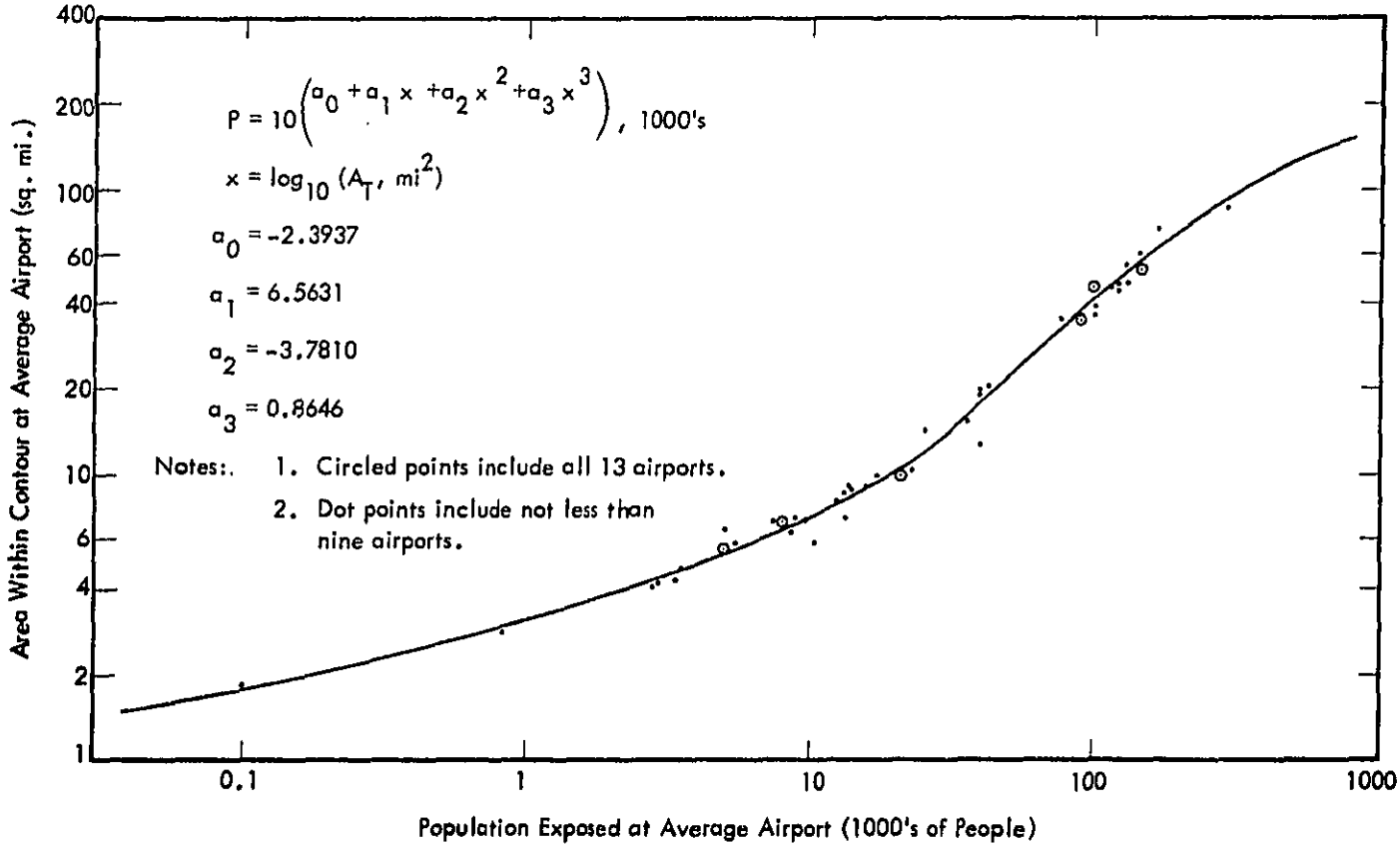


Figure 10. Graph of Contour Area Versus Enclosed Population

References for Appendix E

1. "Forecasted Noise Impact of the Concorde at Selected United States Airports," Bartel, C., Meindl, H., Miller, M., and Johnson, R., for U.S. Department of Transportation, Wyle Laboratories, Report WCR 75-13, September 1975.

2. "Forecasted Noise Impact of the Concorde at Selected United States Airports," Bartel, C., Miller, M., and Moran, J., for U.S. Department of Transporation, Wyle Laboratories, Report WCR 77-2, January 1977.

3. "Concorde Supersonic Transport Aircraft Draft Environmental Impact Statement," Federal Aviation Administration, March 1975.

4. "Our SST and Its Economics," Swihart, J.M., Astronautics and Aeronautics, April 1970.

APPENDIX F

Detailed Results of Scenario Analyses at the AVports and Extrapolations to National Estimates

This appendix presents the detailed estimates of impact at both the AVport and national level for every scenario examined in this study. The tables are arranged whereby the results for a scenario at the "average airport" within an AVport class are presented and immediately followed by the extrapolation to the nation for the same scenario and AVport. The entire set of results is presented for AVport A first, then followed by AVport B, C-1 and C-2.

For the tables presenting results at the AVport, or average airport, level, the following describes the major headings within the table.

- NOISE LEVEL (LDN) – The criterion noise level for each row of area/population results.
- YEAR – Analysis year for each column of results.
- FACTOR* – Factor for number of operations on the average busy runway for the AVport. This factor times the number of operations shown in the "OPERATIONS" column gives the number of operations used by the analysis programs to compute the initial exposed area estimates for the average busy runway. These area results were then scaled to national exposure which were in turn divided by the number of airports in the class to provide the area exposures at the average airport in the class and are listed in the same column.
- GROWTH** – This is the assumed population growth factor, relative to 1970, for each of the analysis years. The average airport areas, described under "FACTOR*" above, are used to calculate the initial estimate of exposed population at the average airport. These initial estimates are then multiplied by the population growth factor to provide the final estimates of exposed population which are listed in each column.

- OPERATIONS – The total number of aircraft operations at the average airport within the AVport class for each analysis year.

For the tables presenting national estimates of area and population exposure, the following describes the column headings within the table.

- NOISE LEVEL (LDN) – The criterion noise level for each row of area/population results.
- YEAR – Analysis year for each column of results.
- A FACTOR* – Scale factor used to extrapolate the exposed area estimate at an average airport to the nation for an AVport class. It is the number of airports in the AVport class.
- P FACTOR** – Scale factor used to extrapolate the exposed population estimate at an average airport to the nation for an AVport class. It is the number of airports in the AVport class.

It should be noted that although the population estimates for the L_{dn} 60 criterion noise level are shown, they should not be used. The tables herein were generated by a computer program and are shown exactly as they were printed. The population figures shown for the L_{dn} 60 noise level represent an accurate application of the population formulae developed in Section 3.6 of the text. However, the area values associated with the L_{dn} 60 noise levels, for the most part, substantially exceeded the area values used to develop the regression formulae and, as such, fall in a region for which there is no corroborating data available.

(This Page Intentionally Left Blank)

Table F-1

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3689	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	755.41	877.87	1050.90	1299.97
60	AREA	-137.0590	-110.1854	55.8570	56.7200	50.1225	53.0831
	POPULATION	886600.	543460.	170919.	182346.	158940.	177354.
65	AREA	57.3545	41.2792	22.1160	22.7170	19.6860	20.6611
	POPULATION	161922.	109081.	56893.	61190.	53817.	58713.
70	AREA	19.7208	15.7178	9.2150	9.4051	8.3770	9.2180
	POPULATION	45596.	36140.	17606.	19024.	16062.	19625.
75	AREA	9.3674	6.8269	3.9695	4.0514	3.2112	3.1786
	POPULATION	16514.	9455.	2499.	2776.	1342.	1336.
80	AREA	3.6155	2.6990	1.8430	1.8810	1.8150	1.9072
	POPULATION	1697.	616.	119.	137.	119.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-2

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1432.4	726.1	737.4	651.6	690.1
	POPULATION	11525797.	7064975.	2221943.	2370503.	2066215.	2305605.
65	AREA	745.6	536.6	287.5	295.3	255.9	268.6
	POPULATION	2104985.	1418059.	739609.	795466.	699626.	763273.
70	AREA	256.4	204.3	119.8	122.3	108.9	119.8
	POPULATION	592751.	469825.	228877.	247313.	208802.	255120.
75	AREA	121.8	88.8	51.6	52.7	41.7	41.3
	POPULATION	214681.	122911.	32484.	36083.	17441.	17370.
80	AREA	47.0	35.1	24.0	24.5	23.6	24.8
	POPULATION	22055.	8003.	1546.	1786.	1545.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-3

Exposure at AVport A
PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	55.2506	31.3310	32.4114	30.4365	35.3756
	POPULATION	886600.	159448.	83642.	90695.	87376.	100049.
65	AREA	57.3545	27.3078	17.7212	18.0867	16.4748	18.1182
	POPULATION	161922.	68045.	44129.	47189.	43616.	50465.
70	AREA	19.7208	14.6065	8.9315	9.1157	8.3770	9.3770
	POPULATION	45596.	32934.	16684.	18041.	16062.	20201.
75	AREA	9.3674	6.9857	4.3948	4.6302	3.6300	3.8144
	POPULATION	16514.	9918.	5377.	4081.	2033.	2460.
80	AREA	3.6155	2.6990	1.9848	2.0257	1.8150	2.0661
	POPULATION	1697.	616.	171.	196.	119.	230.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-4

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	718.3	407.3	421.3	395.7	433.9
	POPULATION	11525797.	2072830.	1087346.	1179034.	1135888.	1300639.
65	AREA	745.6	355.0	230.4	235.1	214.2	235.5
	POPULATION	2104985.	884583.	573681.	613463.	567013.	656045.
70	AREA	256.4	189.9	116.1	118.5	108.9	121.9
	POPULATION	592751.	428142.	216689.	234532.	208602.	262612.
75	AREA	121.8	90.8	57.1	60.2	47.2	49.6
	POPULATION	214681.	128934.	43903.	53056.	26428.	31974.
80	AREA	47.0	35.1	25.8	26.3	23.6	26.9
	POPULATION	22055.	8003.	2219.	2551.	1545.	2987.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-5

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	77.4778	50.7534	51.8004	44.9567	47.5205
	POPULATION	886600.	270724.	149792.	160726.	138058.	153015.
65	AREA	57.3545	34.6110	23.1084	23.7298	20.1048	22.0915
	POPULATION	161922.	88673.	59742.	64223.	55128.	63302.
70	AREA	19.7208	16.3529	10.3492	10.7074	9.3543	10.1716
	POPULATION	45596.	37951.	21295.	23441.	19485.	23081.
75	AREA	9.3674	7.6208	4.5366	4.6302	3.7697	3.9735
	POPULATION	16514.	11806.	3694.	4081.	2295.	2792.
80	AREA	3.6155	2.8578	1.9848	2.0257	1.8150	2.0661
	POPULATION	1697.	768.	171.	196.	119.	230.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-6

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1007.2	659.8	673.4	584.4	617.8
	POPULATION	11525797.	3519408.	1947299.	2089438.	1794757.	1989189.
65	AREA	745.6	449.9	300.4	308.5	261.4	287.2
	POPULATION	2104985.	1152753.	776644.	834898.	716666.	822931.
70	AREA	256.4	212.6	134.5	139.2	121.6	132.2
	POPULATION	592751.	493368.	276833.	304727.	253307.	300054.
75	AREA	121.8	99.1	59.0	60.2	49.0	51.7
	POPULATION	214681.	153475.	48025.	53056.	29835.	36294.
80	AREA	47.0	37.2	25.8	26.3	23.6	26.9
	POPULATION	22055.	9987.	2219.	2551.	1545.	2987.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-7

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	-110.1834	55.7153	54.9837	42.7228	42.5937
	POPULATION	886600.	543460.	170306.	174498.	129564.	133280.
65	AREA	57.3545	41.2792	22.1160	22.5723	18.2898	18.2771
	POPULATION	161922.	109081.	56893.	60756.	49420.	50985.
70	AREA	19.7208	15.7178	9.2150	9.4051	7.9582	7.6287
	POPULATION	45596.	36140.	17606.	19024.	14607.	13911.
75	AREA	9.3674	6.8269	3.9695	3.9067	2.9320	2.7018
	POPULATION	16514.	9455.	2499.	2483.	964.	727.
80	AREA	3.6155	2.6990	1.8430	1.8810	1.6754	1.9072
	POPULATION	1697.	616.	119.	137.	79.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-8

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1432.4	724.3	714.8	555.4	553.7
	POPULATION	11525797.	7064975.	2213973.	2268476.	1684338.	1732644.
65	AREA	745.6	536.6	287.5	293.4	237.8	237.6
	POPULATION	2104965.	1418059.	739609.	789830.	642456.	662809.
70	AREA	256.4	204.3	119.8	122.3	103.5	99.2
	POPULATION	592751.	469825.	228877.	247313.	189892.	180841.
75	AREA	121.8	88.8	51.6	50.8	38.1	35.1
	POPULATION	214681.	122911.	32484.	32284.	12529.	9449.
80	AREA	47.0	35.1	24.0	24.5	21.6	24.8
	POPULATION	22055.	8003.	1546.	1786.	1023.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-9

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	55.2506	31.3310	31.6880	27.7838	29.8791
	POPULATION	886600.	159448.	83642.	88425.	78986.	88383.
65	AREA	57.3545	27.3078	17.5794	17.6527	15.2183	16.0521
	POPULATION	161922.	68045.	43710.	45854.	39525.	43621.
70	AREA	19.7208	14.6065	8.9315	8.9710	7.9582	8.1055
	POPULATION	45596.	32934.	16684.	17550.	14607.	15609.
75	AREA	9.3674	6.9857	4.3948	4.3408	3.3508	3.1786
	POPULATION	16514.	9918.	3377.	3402.	1556.	1336.
80	AREA	3.6155	2.6990	1.9848	2.0257	1.8150	1.9072
	POPULATION	1697.	616.	171.	196.	119.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-10

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	718.3	407.3	411.9	361.2	388.4
	POPULATION	11525797.	2072830.	1087346.	1149522.	1026814.	1148979.
65	AREA	745.6	355.0	228.5	229.5	197.8	208.7
	POPULATION	2104985.	884583.	568236.	596098.	513829.	567079.
70	AREA	256.4	189.9	116.1	116.6	103.5	105.4
	POPULATION	592751.	428142.	216889.	228147.	189892.	202918.
75	AREA	121.8	90.8	57.1	56.4	45.6	41.3
	POPULATION	214681.	128934.	45903.	44231.	20225.	17370.
80	AREA	47.0	35.1	25.8	26.3	23.6	24.8
	POPULATION	22055.	8003.	2219.	2551.	1545.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-11

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	755.41	877.87	1050.90	1299.97
60	AREA	-137.0590	77.4778	50.7534	51.2216	41.1870	41.7990
	POPULATION	886600.	270724.	149792.	158304.	123895.	130240.
65	AREA	57.3545	34.6110	23.1084	23.1510	19.2671	19.3897
	POPULATION	161922.	88673.	59742.	62490.	52503.	54608.
70	AREA	19.7208	16.3529	10.3492	10.2733	8.7959	8.7412
	POPULATION	45596.	37951.	21295.	21972.	17526.	17698.
75	AREA	9.3674	7.6208	4.5366	4.4855	3.4904	3.1786
	POPULATION	16514.	11806.	3694.	3736.	1786.	1336.
80	AREA	3.6155	2.8578	1.9848	2.0257	1.8150	1.9072
	POPULATION	1697.	768.	171.	196.	119.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-12

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1007.2	659.8	665.9	535.4	543.4
	POPULATION	11525797.	3519408.	1947299.	2057951.	1610637.	1693125.
65	AREA	745.6	449.9	300.4	301.0	250.5	252.1
	POPULATION	2104985.	1152753.	776644.	812368.	682539.	709901.
70	AREA	256.4	212.6	134.5	133.6	114.3	113.6
	POPULATION	592751.	493368.	276833.	285633.	227834.	232675.
75	AREA	121.8	99.1	59.0	58.3	45.4	41.5
	POPULATION	214681.	153475.	48025.	48563.	23223.	17370.
80	AREA	47.0	37.2	25.8	26.3	23.6	24.6
	POPULATION	22055.	9987.	2219.	2551.	1545.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-13

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3689	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.15	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	-110.1834	55.7153	54.6943	41.8851	40.6865
	POPULATION	886600.	543460.	170306.	173214.	126456.	126046.
65	AREA	57.3545	41.2792	22.1160	22.5723	18.1502	17.6414
	POPULATION	161922.	109081.	56893.	60756.	48977.	48899.
70	AREA	19.7208	15.7178	9.2150	9.4051	7.8186	7.1519
	POPULATION	45596.	36140.	17606.	19024.	14125.	12238.
75	AREA	9.3674	6.8269	3.9695	3.9067	2.7923	2.7018
	POPULATION	16514.	9455.	2499.	2483.	801.	727.
80	AREA	3.6155	2.6990	1.8430	1.8810	1.6754	1.9072
	POPULATION	1697.	616.	119.	137.	79.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-14

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1432.4	724.3	711.0	544.5	528.9
	POPULATION	11525797.	7064975.	2213973.	2251779.	1643922.	1638598.
65	AREA	745.6	536.6	287.5	293.4	236.0	229.3
	POPULATION	2104985.	1418059.	739609.	789830.	636702.	635690.
70	AREA	256.4	204.3	119.8	122.3	101.6	93.0
	POPULATION	592751.	469825.	228877.	247313.	183627.	159096.
75	AREA	121.8	88.8	51.6	50.8	36.3	35.1
	POPULATION	214681.	122911.	32484.	32284.	10408.	9449.
80	AREA	47.0	35.1	24.0	24.5	21.8	24.8
	POPULATION	22055.	8003.	1546.	1786.	1023.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-15

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	55.2506	31.3310	31.6880	27.5045	29.0845
	POPULATION	866600.	159448.	83642.	88425.	78111.	85781.
65	AREA	57.3545	27.3078	17.5794	17.6527	14.9390	15.5753
	POPULATION	161922.	68045.	43710.	45854.	38607.	42018.
70	AREA	19.7208	14.6065	8.9315	8.9710	7.8186	8.1055
	POPULATION	45596.	32934.	16684.	17550.	14125.	15609.
75	AREA	9.3674	6.9857	4.3948	4.3408	3.3508	2.8608
	POPULATION	16514.	9918.	3377.	3402.	1556.	907.
80	AREA	3.6155	2.6990	1.9848	2.0257	1.8150	1.9072
	POPULATION	1697.	616.	171.	196.	119.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-16

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	718.3	407.3	411.9	357.6	378.1
	POPULATION	11525797.	2072830.	1087346.	1149522.	1015445.	1115159.
65	AREA	745.6	355.0	228.5	229.5	194.2	202.5
	POPULATION	2104985.	884583.	568256.	596098.	501888.	546235.
70	AREA	256.4	189.9	116.1	116.6	101.6	105.4
	POPULATION	592751.	428142.	216889.	228147.	183627.	202918.
75	AREA	121.8	90.8	57.1	56.4	43.6	37.2
	POPULATION	214681.	128934.	43903.	44231.	20225.	11791.
80	AREA	47.0	35.1	25.8	26.3	23.6	24.8
	POPULATION	22055.	8003.	2219.	2551.	1545.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-17

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.250	1.270
	OPERATIONS	548.13	620.26	753.41	877.87	1050.90	1299.97
60	AREA	-137.0590	77.4778	50.7534	51.2216	40.7682	40.0506
	POPULATION	886600.	270724.	149792.	158304.	122372.	123680.
65	AREA	57.3545	34.6110	23.1084	23.1510	18.7087	19.0718
	POPULATION	161922.	88673.	59742.	62490.	50744.	53576.
70	AREA	19.7208	16.3529	10.3492	10.2733	8.6565	8.7412
	POPULATION	45596.	37951.	21295.	21972.	17037.	17898.
75	AREA	9.3674	7.6208	4.5366	4.4855	3.4904	3.0197
	POPULATION	16514.	11806.	3694.	3736.	1786.	1110.
80	AREA	3.6155	2.8578	1.9848	2.0257	1.8150	1.9072
	POPULATION	1697.	768.	171.	196.	119.	157.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-18

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 5 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1007.2	659.8	665.9	530.0	520.7
	POPULATION	11525797.	3519408.	1947299.	2057951.	1590835.	1607845.
65	AREA	745.6	449.9	300.4	301.0	243.2	247.9
	POPULATION	2104985.	1152753.	776644.	812368.	659674.	696489.
70	AREA	256.4	212.6	134.5	133.6	112.5	113.6
	POPULATION	592751.	493368.	276833.	285633.	221480.	232675.
75	AREA	121.8	99.1	59.0	58.3	45.4	39.3
	POPULATION	214681.	153475.	48025.	48563.	23223.	14432.
80	AREA	47.0	37.2	25.8	26.3	23.6	24.8
	POPULATION	22055.	9987.	2219.	2551.	1545.	2039.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-19

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1299.97
60	AREA	.0000	.0000	.0000	.0000	.0000	15.8932
	POPULATION	0.	0.	0.	0.	0.	43088.
65	AREA	.0000	.0000	.0000	.0000	.0000	6.8341
	POPULATION	0.	0.	0.	0.	0.	11142.
70	AREA	.0000	.0000	.0000	.0000	.0000	2.7018
	POPULATION	0.	0.	0.	0.	0.	727.
75	AREA	.0000	.0000	.0000	.0000	.0000	1.9072
	POPULATION	0.	0.	0.	0.	0.	157.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1589
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-20

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	206.6
	POPULATION	0.	0.	0.	0.	0.	560145.
65	AREA	.0	.0	.0	.0	.0	88.6
	POPULATION	0.	0.	0.	0.	0.	144850.
70	AREA	.0	.0	.0	.0	.0	35.1
	POPULATION	0.	0.	0.	0.	0.	9449.
75	AREA	.0	.0	.0	.0	.0	24.8
	POPULATION	0.	0.	0.	0.	0.	2039.
80	AREA	.0	.0	.0	.0	.0	2.1
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-21

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1299.97
60	AREA	.0000	.0000	.0000	.0000	.0000	14.7806
	POPULATION	0.	0.	0.	0.	0.	39323.
65	AREA	.0000	.0000	.0000	.0000	.0000	7.7877
	POPULATION	0.	0.	0.	0.	0.	14475.
70	AREA	.0000	.0000	.0000	.0000	.0000	3.3376
	POPULATION	0.	0.	0.	0.	0.	1585.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.0661
	POPULATION	0.	0.	0.	0.	0.	230.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1589
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-22

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	192.1
	POPULATION	0.	0.	0.	0.	0.	511195.
65	AREA	.0	.0	.0	.0	.0	101.2
	POPULATION	0.	0.	0.	0.	0.	188169.
70	AREA	.0	.0	.0	.0	.0	43.4
	POPULATION	0.	0.	0.	0.	0.	20600.
75	AREA	.0	.0	.0	.0	.0	26.9
	POPULATION	0.	0.	0.	0.	0.	2987.
80	AREA	.0	.0	.0	.0	.0	2.1
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-23

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3889	.3293
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1299.97
60	AREA	.0000	.0000	.0000	.0000	.0000	17.4825
	POPULATION	0.	0.	0.	0.	0.	48370.
65	AREA	.0000	.0000	.0000	.0000	.0000	8.2644
	POPULATION	0.	0.	0.	0.	0.	16179.
70	AREA	.0000	.0000	.0000	.0000	.0000	3.4965
	POPULATION	0.	0.	0.	0.	0.	1855.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.0661
	POPULATION	0.	0.	0.	0.	0.	230.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1589
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-24

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	227.3
	POPULATION	0.	0.	0.	0.	0.	628884.
65	AREA	.0	.0	.0	.0	.0	107.4
	POPULATION	0.	0.	0.	0.	0.	210330.
70	AREA	.0	.0	.0	.0	.0	45.5
	POPULATION	0.	0.	0.	0.	0.	24117.
75	AREA	.0	.0	.0	.0	.0	26.9
	POPULATION	0.	0.	0.	0.	0.	2987.
80	AREA	.0	.0	.0	.0	.0	2.1
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-25

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.61	1023.96	1301.91	1672.39
60	AREA	-137.0590	-111.8910	59.9917	65.2321	54.7069	60.3570
	POPULATION	886600.	562562.	189508.	224613.	179094.	213024.
65	AREA	57.3545	42.5345	22.5501	24.1547	21.3208	23.5491
	POPULATION	161922.	113147.	58140.	65495.	58917.	67963.
70	AREA	19.7208	15.8711	9.3604	10.2694	9.5861	9.6967
	POPULATION	45596.	36579.	18079.	21958.	20299.	21360.
75	AREA	9.3674	6.9833	3.9711	4.3392	3.1403	3.7599
	POPULATION	16514.	9911.	2502.	3399.	1239.	2350.
80	AREA	3.6155	2.6981	1.8437	2.0249	1.9853	2.3747
	POPULATION	1697.	615.	119.	196.	184.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-26

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1454.6	779.9	848.0	711.2	784.6
	POPULATION	11525797.	7313301.	2463605.	2919964.	2328220.	2769316.
65	AREA	745.6	552.9	293.2	314.0	277.2	306.1
	POPULATION	2104985.	1470914.	755816.	851438.	765919.	883520.
70	AREA	256.4	206.3	121.7	133.5	124.6	126.1
	POPULATION	592751.	475524.	235030.	285460.	263891.	277686.
75	AREA	121.8	90.8	51.6	56.4	40.8	48.9
	POPULATION	214681.	128842.	32523.	44182.	16110.	30554.
80	AREA	47.0	35.1	24.0	26.3	25.8	30.9
	POPULATION	22035.	7992.	1549.	2547.	2386.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-27

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3689	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1301.91	1672.39
60	AREA	-137.0590	56.0249	52.9052	35.8704	35.5347	40.3699
	POPULATION	886600.	162613.	88372.	101600.	104087.	124865.
65	AREA	57.3545	27.6157	17.8699	19.9602	18.8417	20.9765
	POPULATION	161922.	68891.	44568.	52898.	51164.	59727.
70	AREA	19.7208	14.9188	9.0768	9.6908	9.7514	10.4683
	POPULATION	45596.	33840.	17156.	19995.	20880.	24226.
75	AREA	9.3674	6.9853	4.3966	4.9177	3.9667	3.9578
	POPULATION	16514.	9911.	5381.	4802.	2690.	2759.
80	AREA	3.6155	2.8568	1.9855	2.1696	2.1486	2.3747
	POPULATION	1697.	767.	171.	269.	266.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-28

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	728.3	427.7	466.3	462.0	524.8
	POPULATION	11525797.	2113965.	1148633.	1323401.	1353135.	1623250.
65	AREA	745.6	359.0	232.3	259.5	244.9	272.7
	POPULATION	2104985.	895582.	579385.	687669.	665128.	776457.
70	AREA	256.4	193.9	118.0	126.0	126.8	136.3
	POPULATION	592751.	439922.	223030.	259933.	271456.	314937.
75	AREA	121.8	90.8	57.2	63.9	51.6	51.5
	POPULATION	214681.	128842.	43952.	62426.	34971.	35863.
80	AREA	47.0	37.1	25.8	28.2	27.9	30.9
	POPULATION	22055.	9974.	2223.	3502.	3464.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-29

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1301.91	1672.39
60	AREA	-137.0590	78.8792	51.7659	55.8306	49.7486	54.6182
	POPULATION	886600.	279386.	153854.	178295.	157366.	184499.
65	AREA	57.3545	35.0751	23.6847	25.3118	22.8083	24.9344
	POPULATION	161922.	90036.	61395.	68964.	63529.	72392.
70	AREA	19.7208	16.9821	10.6368	11.4265	10.7431	11.6756
	POPULATION	45596.	39732.	22227.	25861.	24353.	28489.
75	AREA	9.3674	7.6181	4.5384	5.0624	4.1319	4.1557
	POPULATION	16514.	11798.	3698.	5180.	3043.	3196.
80	AREA	3.6155	2.8568	1.9855	2.1696	2.1486	2.3747
	POPULATION	1697.	767.	171.	269.	266.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-30

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1025.4	673.0	725.8	646.7	710.0
	POPULATION	11525797.	3632021.	1999857.	2317840.	2045760.	2398485.
65	AREA	745.6	456.0	307.9	329.1	296.5	324.1
	POPULATION	2104985.	1170472.	798135.	896531.	825883.	941095.
70	AREA	256.4	220.8	138.5	148.5	139.7	151.8
	POPULATION	592751.	516510.	288956.	336187.	316590.	370357.
75	AREA	121.8	99.0	59.0	65.8	53.7	54.0
	POPULATION	214681.	153372.	48078.	67345.	39564.	41554.
80	AREA	47.0	37.1	25.8	28.2	27.9	30.9
	POPULATION	22055.	9974.	2223.	3502.	3464.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-31

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1301.91	1672.37
60	AREA	-137.0590	-111.8910	59.9917	62.0500	46.9389	46.1088
	POPULATION	886600.	562562.	189508.	208038.	145857.	147197.
65	AREA	57.3545	42.5345	22.5501	23.5761	19.6681	20.9765
	POPULATION	161922.	113147.	58140.	63763.	53761.	59727.
70	AREA	19.7208	15.8711	9.3604	9.9801	8.4292	8.5115
	POPULATION	45596.	36579.	18079.	20977.	16244.	16348.
75	AREA	9.3674	6.9833	3.9711	4.1945	2.9750	3.3642
	POPULATION	16514.	9911.	2502.	3079.	1018.	1628.
80	AREA	3.6155	2.6981	1.8437	2.0249	1.9833	2.3747
	POPULATION	1697.	615.	119.	196.	184.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-32

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1454.6	779.9	806.7	610.2	599.4
	POPULATION	11525797.	7313301.	2463605.	2704491.	1896148.	1913555.
65	AREA	745.6	552.9	293.2	306.5	255.7	272.7
	POPULATION	2104985.	1470914.	755816.	828915.	698895.	776457.
70	AREA	256.4	206.3	121.7	129.7	109.6	108.0
	POPULATION	592751.	475524.	235030.	272705.	211167.	212527.
75	AREA	121.8	90.8	51.6	54.5	38.7	43.7
	POPULATION	214681.	128842.	32523.	40023.	13229.	21169.
80	AREA	47.0	35.1	24.0	26.3	25.8	30.9
	POPULATION	22055.	7992.	1549.	2547.	2386.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTURS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-33

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
NOISE LEVEL	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
(LDN)	OPERATIONS	548.13	653.08	762.81	1023.98	1301.91	1672.37
60	AREA	-137.0590	56.0249	52.9032	34.7133	32.3944	35.4226
	POPULATION	886600.	162613.	88372.	98035.	93688.	107082.
65	AREA	57.3545	27.6157	17.8699	19.3816	17.6847	18.9976
	POPULATION	161922.	68891.	44568.	51143.	47497.	53335.
70	AREA	19.7208	14.9188	9.0768	9.4015	8.5944	9.1030
	POPULATION	45596.	33840.	17156.	19012.	16821.	19208.
75	AREA	9.3674	6.9833	4.3966	4.7731	3.6361	3.5621
	POPULATION	16514.	9911.	3381.	4434.	2044.	1973.
80	AREA	3.6155	2.8568	1.9855	2.0249	2.1486	2.3747
	POPULATION	1697.	767.	171.	196.	266.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-34

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	728.5	427.7	451.5	421.1	460.5
	POPULATION	11525797.	2113965.	1148833.	1274458.	1217946.	1392068.
65	AREA	745.6	359.0	232.3	252.0	229.9	247.0
	POPULATION	2104985.	895582.	579385.	664865.	617464.	693355.
70	AREA	256.4	193.9	118.0	122.2	111.7	118.3
	POPULATION	592751.	439922.	223030.	247154.	218670.	249701.
75	AREA	121.8	90.8	57.2	62.1	47.3	46.3
	POPULATION	214681.	128842.	43952.	57641.	26572.	25649.
80	AREA	47.0	37.1	25.8	26.3	27.9	30.9
	POPULATION	22055.	9974.	2223.	2547.	3464.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-35

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3689	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1301.91	1672.37
60	AREA	-137.0590	78.8792	51.7659	53.9502	45.9472	47.4940
	POPULATION	886600.	279386.	153834.	169942.	141924.	152904.
65	AREA	57.3545	35.0751	23.6847	24.8779	21.1556	22.7576
	POPULATION	161922.	90036.	61395.	67662.	58403.	65433.
70	AREA	19.7208	16.9821	10.6368	10.9926	9.5861	9.6967
	POPULATION	45596.	39732.	22227.	24402.	20299.	21360.
75	AREA	9.3674	7.6181	4.5384	4.9177	3.8014	3.7599
	POPULATION	16514.	11798.	3698.	4802.	2357.	2350.
80	AREA	3.6155	2.8568	1.9855	2.0249	2.1486	2.3747
	POPULATION	1697.	767.	171.	196.	266.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-36

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1025.4	673.0	701.4	597.3	617.4
	POPULATION	11525797.	3632021.	1999837.	2209240.	1845009.	1967753.
65	AREA	745.6	456.0	307.9	323.4	275.0	295.8
	POPULATION	2104985.	1170472.	798135.	879610.	759240.	850631.
70	AREA	256.4	220.8	138.5	142.9	124.6	126.1
	POPULATION	592751.	516510.	288956.	317232.	263891.	277686.
75	AREA	121.8	99.0	59.0	63.9	49.4	48.9
	POPULATION	214681.	153372.	46078.	62426.	30636.	30554.
80	AREA	47.0	37.1	25.8	26.3	27.9	30.9
	POPULATION	22055.	9974.	2223.	2547.	3464.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-37

Exposure at AVport A
PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1300.26	1672.39
60	AREA	-137.0590	-111.8910	59.9917	61.9054	46.2778	45.3172
	POPULATION	886600.	562562.	189508.	207307.	143228.	143993.
65	AREA	57.3545	42.5345	22.5501	23.5761	19.6681	20.1850
	POPULATION	161922.	113147.	58140.	63763.	53761.	57179.
70	AREA	19.7208	15.8711	9.3604	9.9801	8.4292	8.3115
	POPULATION	45596.	36579.	18079.	20977.	16244.	16348.
75	AREA	9.3674	6.9833	3.9711	4.1945	2.9750	3.3642
	POPULATION	16514.	9911.	2502.	3079.	1018.	1628.
80	AREA	3.0155	2.6981	1.8437	1.8803	1.9833	2.3747
	POPULATION	1697.	615.	119.	137.	184.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-38

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	-1454.6	779.9	804.8	601.6	589.1
	POPULATION	11525797.	7313301.	2463605.	2694991.	1861962.	1871914.
65	AREA	745.6	552.9	293.2	306.5	255.7	202.4
	POPULATION	2104985.	1470914.	755816.	828915.	698895.	743333.
70	AREA	256.4	206.3	121.7	129.7	109.6	108.0
	POPULATION	592751.	475524.	235030.	272705.	211167.	212527.
75	AREA	121.8	90.8	51.6	54.5	38.7	43.7
	POPULATION	214681.	128842.	32523.	40023.	13229.	21169.
80	AREA	47.0	35.1	24.0	24.4	25.8	30.9
	POPULATION	22055.	7992.	1549.	1782.	2386.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-39

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3869	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	548.13	653.08	762.81	1023.98	1300.26	1672.39
60	AREA	-137.0590	56.0249	32.9032	34.7133	31.7333	33.6416
	POPULATION	886600.	162613.	88372.	98035.	91544.	100954.
65	AREA	57.3545	27.6157	17.8699	19.2370	17.1889	18.4040
	POPULATION	161922.	68891.	44568.	50704.	45913.	51400.
70	AREA	19.7208	14.9188	9.0768	9.4015	8.5944	8.7072
	POPULATION	45596.	33840.	17156.	19012.	16821.	17775.
75	AREA	9.3674	6.9833	4.3966	4.7731	3.4708	3.5621
	POPULATION	16514.	9911.	3381.	4434.	1753.	1973.
80	AREA	3.6155	2.8568	1.9855	2.0249	1.9833	2.3747
	POPULATION	1697.	767.	171.	196.	184.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-40

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	728.3	427.7	451.3	412.5	437.3
	POPULATION	11525797.	2113965.	1148833.	1274458.	1190068.	1312398.
65	AREA	745.6	359.0	232.3	250.1	223.5	239.3
	POPULATION	2104985.	895582.	579385.	659149.	596871.	668199.
70	AREA	256.4	193.9	118.0	122.2	111.7	113.2
	POPULATION	592751.	439922.	223050.	247154.	218670.	231078.
75	AREA	121.8	90.8	57.2	62.1	45.1	46.3
	POPULATION	214681.	128842.	43952.	57641.	22789.	25649.
80	AREA	47.0	37.1	25.8	26.3	25.8	30.9
	POPULATION	22055.	9974.	2223.	2547.	2386.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-41

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 5

	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
NOISE LEVEL	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
(LDN)	OPERATIONS	548.13	653.08	762.81	1023.98	1300.26	1672.39
60	AREA	-137.0590	78.8792	51.7659	53.9502	45.1208	46.1088
	POPULATION	886600.	279386.	153834.	169942.	138695.	147197.
65	AREA	57.3545	35.0751	23.6847	24.7332	20.9903	21.5702
	POPULATION	161922.	90036.	61395.	67229.	57889.	61633.
70	AREA	19.7208	16.9821	10.6368	10.9926	9.5861	9.3009
	POPULATION	45596.	39732.	22227.	24402.	20299.	19925.
75	AREA	9.3674	7.6181	4.5384	4.9177	3.4708	3.7599
	POPULATION	16514.	11798.	3698.	4802.	1753.	2350.
80	AREA	3.6155	2.8568	1.9855	2.0249	1.9833	2.3747
	POPULATION	1697.	767.	171.	196.	184.	428.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-42

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	-1781.8	1025.4	673.0	701.4	586.6	599.4
	POPULATION	11525797.	3632021.	1999857.	2209240.	1803030.	1913555.
65	AREA	745.6	456.0	307.9	321.5	272.9	280.4
	POPULATION	2104985.	1170472.	798155.	873973.	752557.	801225.
70	AREA	256.4	220.8	138.5	142.9	124.0	120.9
	POPULATION	592751.	516510.	288956.	317232.	263891.	259027.
75	AREA	121.8	99.0	59.0	63.9	45.1	48.9
	POPULATION	214681.	153372.	48078.	62426.	22789.	30554.
80	AREA	47.0	37.1	25.8	26.3	25.8	30.9
	POPULATION	22055.	9974.	2223.	2547.	2366.	5560.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-43

Exposure at AVport A

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2456
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1672.39
60	AREA	.0000	.0000	.0000	.0000	.0000	19.3934
	POPULATION	0.	0.	0.	0.	0.	54620.
65	AREA	.0000	.0000	.0000	.0000	.0000	8.1136
	POPULATION	0.	0.	0.	0.	0.	15638.
70	AREA	.0000	.0000	.0000	.0000	.0000	3.3642
	POPULATION	0.	0.	0.	0.	0.	1628.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.3747
	POPULATION	0.	0.	0.	0.	0.	428.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1979
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-44

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	252.1
	POPULATION	0.	0.	0.	0.	0.	710059.
65	AREA	.0	.0	.0	.0	.0	105.5
	POPULATION	0.	0.	0.	0.	0.	203293.
70	AREA	.0	.0	.0	.0	.0	43.7
	POPULATION	0.	0.	0.	0.	0.	21169.
75	AREA	.0	.0	.0	.0	.0	30.9
	POPULATION	0.	0.	0.	0.	0.	5560.
80	AREA	.0	.0	.0	.0	.0	2.6
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-45

Exposure at AVport A

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1672.39
60	AREA	.0000	.0000	.0000	.0000	.0000	18.0082
	POPULATION	0.	0.	0.	0.	0.	50104.
65	AREA	.0000	.0000	.0000	.0000	.0000	9.6967
	POPULATION	0.	0.	0.	0.	0.	21360.
70	AREA	.0000	.0000	.0000	.0000	.0000	4.1557
	POPULATION	0.	0.	0.	0.	0.	3196.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.5726
	POPULATION	0.	0.	0.	0.	0.	597.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1979
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-46

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	234.1
	POPULATION	0.	0.	0.	0.	0.	651356.
65	AREA	.0	.0	.0	.0	.0	126.1
	POPULATION	0.	0.	0.	0.	0.	277686.
70	AREA	.0	.0	.0	.0	.0	54.0
	POPULATION	0.	0.	0.	0.	0.	41554.
75	AREA	.0	.0	.0	.0	.0	33.4
	POPULATION	0.	0.	0.	0.	0.	7764.
80	AREA	.0	.0	.0	.0	.0	2.6
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-47

Exposure at AVport A

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.3889	.3889	.3889	.3889	.3102	.2458
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1672.39
60	AREA	.0000	.0000	.0000	.0000	.0000	21.1744
	POPULATION	0.	0.	0.	0.	0.	60363.
65	AREA	.0000	.0000	.0000	.0000	.0000	10.0925
	POPULATION	0.	0.	0.	0.	0.	22795.
70	AREA	.0000	.0000	.0000	.0000	.0000	4.3536
	POPULATION	0.	0.	0.	0.	0.	3662.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.5726
	POPULATION	0.	0.	0.	0.	0.	597.
80	AREA	.0000	.0000	.0000	.0000	.0000	.1979
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-48

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT A FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	13.00	13.00	13.00	13.00	13.00	13.00
	P FACTOR **	13.00	13.00	13.00	13.00	13.00	13.00
60	AREA	.0	.0	.0	.0	.0	275.3
	POPULATION	0.	0.	0.	0.	0.	784719.
65	AREA	.0	.0	.0	.0	.0	131.2
	POPULATION	0.	0.	0.	0.	0.	296330.
70	AREA	.0	.0	.0	.0	.0	56.6
	POPULATION	0.	0.	0.	0.	0.	47606.
75	AREA	.0	.0	.0	.0	.0	33.4
	POPULATION	0.	0.	0.	0.	0.	7764.
80	AREA	.0	.0	.0	.0	.0	2.6
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-49

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	22.2952	17.1905	17.3582	14.6857	14.7968
	POPULATION	69934.	63743.	51574.	54383.	47112.	49039.
65	AREA	9.7774	8.9345	7.1240	7.1935	6.4567	6.5507
	POPULATION	25238.	23538.	18740.	19807.	17789.	18714.
70	AREA	4.0948	3.5246	2.9425	2.9712	2.8449	2.9285
	POPULATION	7854.	6441.	5034.	5343.	5124.	5562.
75	AREA	1.5878	1.3935	1.2390	1.2510	1.1533	1.1560
	POPULATION	1409.	1101.	890.	950.	812.	843.
80	AREA	.9192	.9016	.7745	.7819	.7689	.7707
	POPULATION	392.	387.	273.	293.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-50

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2519.4	1942.5	1961.5	1659.5	1672.0
	POPULATION	7902507.	7202959.	5827827.	6145270.	5323686.	5541365.
65	AREA	1104.8	1009.6	805.0	812.9	729.8	740.2
	POPULATION	2851879.	2659829.	2117582.	2238208.	2010178.	2114738.
70	AREA	462.7	398.3	332.5	335.7	321.5	330.9
	POPULATION	887487.	727854.	568835.	603751.	578992.	628532.
75	AREA	179.4	157.5	140.0	141.4	130.3	130.6
	POPULATION	159231.	124452.	100585.	107382.	91735.	95239.
80	AREA	103.9	101.9	87.5	88.4	86.9	87.1
	POPULATION	44286.	43756.	30852.	33066.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-51

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	14.3443	11.5378	11.6503	10.6106	10.7122
	POPULATION	69934.	40334.	33485.	35339.	32834.	34276.
65	AREA	9.7774	7.3771	6.1948	6.2552	5.8435	6.0112
	POPULATION	25238.	18565.	15595.	16492.	15547.	16683.
70	AREA	4.0948	3.6885	3.1748	3.2058	2.9987	3.0056
	POPULATION	7854.	6928.	5726.	6075.	5610.	5815.
75	AREA	1.5878	1.5574	1.3938	1.4074	1.3071	1.3101
	POPULATION	1409.	1404.	1163.	1241.	1086.	1127.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-52

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

	YEAR	1975	1980	1985	1990	1995	2000
NOISE LEVEL (LDN)	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1620.9	1305.8	1316.5	1199.0	1210.5
	POPULATION	7902507.	4557728.	3783843.	3993333.	3710208.	3873156.
65	AREA	1104.8	853.6	700.0	706.8	660.3	679.3
	POPULATION	2851879.	2097820.	1762257.	1863647.	1756824.	1885151.
70	AREA	462.7	416.8	358.8	362.3	338.8	359.6
	POPULATION	887467.	782841.	647031.	686452.	635924.	657122.
75	AREA	179.4	176.0	157.5	159.0	147.7	148.0
	POPULATION	159231.	158670.	131445.	140203.	122730.	127389.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44286.	43756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-53

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	20.0001	17.1905	17.3582	14.6857	14.8738
	POPULATION	69934.	57106.	51574.	54383.	47112.	49312.
65	AREA	9.7774	9.0164	7.7455	7.8190	6.9200	7.0901
	POPULATION	25238.	23799.	20835.	22015.	19474.	20749.
70	AREA	4.0948	4.0984	3.3297	3.3622	3.2293	3.2368
	POPULATION	7854.	8167.	6197.	6573.	6356.	6588.
75	AREA	1.5878	1.6394	1.3938	1.4074	1.3071	1.3101
	POPULATION	1409.	1566.	1163.	1241.	1086.	1127.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-54

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2260.0	1942.5	1961.5	1659.5	1680.7
	POPULATION	7902507.	6452999.	5827827.	6145270.	5323686.	5572266.
65	AREA	1104.8	1018.9	875.0	883.5	782.0	801.2
	POPULATION	2851879.	2689258.	2354346.	2487712.	2200560.	2344626.
70	AREA	462.7	463.1	376.5	379.9	364.9	365.8
	POPULATION	887487.	922856.	700246.	742714.	718219.	744429.
75	AREA	179.4	185.2	157.5	159.0	147.7	148.0
	POPULATION	159231.	176926.	131445.	140203.	122730.	127389.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44266.	43756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-55

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)		YEAR	1975	1980	1985	1990	1995	2000
		FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
		GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
		OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60		AREA	25.4045	22.2952	17.1905	17.1237	14.0706	14.0261
		POPULATION	69934.	63743.	51574.	53617.	44990.	46294.
65		AREA	9.7774	8.9345	7.0466	7.1153	6.0742	5.9341
		POPULATION	25238.	23538.	18478.	19531.	16387.	16393.
70		AREA	4.0948	3.5246	2.9425	2.9712	2.6142	2.5432
		POPULATION	7854.	6441.	5034.	5343.	4414.	4338.
75		AREA	1.5878	1.3935	1.2390	1.2510	1.1533	1.1560
		POPULATION	1409.	1101.	890.	950.	812.	843.
80		AREA	.9192	.9016	.7743	.7819	.7689	.7707
		POPULATION	392.	387.	273.	293.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-56

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2519.4	1942.5	1935.0	1590.0	1584.9
	POPULATION	7902507.	7202959.	5827827.	6058765.	5083868.	5231240.
65	AREA	1104.8	1009.6	796.3	804.0	686.4	670.6
	POPULATION	2851879.	2659829.	2087963.	2206991.	1851720.	1852410.
70	AREA	462.7	398.3	332.5	335.7	295.4	287.4
	POPULATION	887487.	727854.	568835.	603751.	498800.	490142.
75	AREA	179.4	157.5	140.0	141.4	130.3	130.6
	POPULATION	159231.	124452.	100585.	107382.	91735.	95239.
80	AREA	103.9	101.9	87.5	88.4	86.9	87.1
	POPULATION	44286.	43756.	30852.	33066.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-57

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	14.3443	11.5378	11.4940	10.3031	10.1726
	POPULATION	69934.	40334.	33485.	34804.	31734.	32285.
65	AREA	9.7774	7.3771	6.1173	6.1770	5.5360	5.4717
	POPULATION	25238.	18565.	15334.	16217.	14430.	14659.
70	AREA	4.0948	3.6885	3.1748	3.2058	2.9218	2.7744
	POPULATION	7854.	6928.	5726.	6075.	5366.	5064.
75	AREA	1.5878	1.5574	1.3938	1.4074	1.2302	1.2331
	POPULATION	1409.	1404.	1163.	1241.	945.	981.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-58

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1620.9	1303.8	1298.8	1164.2	1149.5
	POPULATION	7902507.	4557728.	3783843.	3932846.	3585992.	3648162.
65	AREA	1104.8	833.6	691.3	698.0	625.6	618.3
	POPULATION	2851879.	2097820.	1732691.	1832473.	1630617.	1656476.
70	AREA	462.7	416.8	358.8	362.3	330.2	313.5
	POPULATION	887487.	782841.	647031.	686452.	606322.	572212.
75	AREA	179.4	176.0	157.5	159.0	139.0	139.3
	POPULATION	159231.	158670.	131445.	140203.	106758.	110822.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44286.	43756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-59

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	20.0001	17.1905	17.2018	14.4551	14.0261
	POPULATION	69934.	57106.	51574.	53873.	46318.	46294.
65	AREA	9.7774	9.0164	7.7435	7.7408	6.7662	6.5507
	POPULATION	25238.	23799.	20835.	21739.	18912.	18714.
70	AREA	4.0948	4.0984	3.3297	3.3622	3.0756	2.9285
	POPULATION	7854.	8167.	6197.	6573.	5856.	5562.
75	AREA	1.5878	1.6394	1.3938	1.4074	1.3071	1.3101
	POPULATION	1409.	1566.	1163.	1241.	1086.	1127.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-60

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2260.0	1942.5	1943.8	1633.4	1584.9
	POPULATION	7902507.	6452999.	5827827.	6087616.	5233909.	5231240.
65	AREA	1104.8	1018.9	875.0	874.7	764.6	740.2
	POPULATION	2851879.	2689258.	2354346.	2456555.	2137089.	2114738.
70	AREA	462.7	463.1	376.3	379.9	347.5	330.9
	POPULATION	887487.	922856.	700246.	742714.	661784.	628532.
75	AREA	179.4	185.2	157.5	159.0	147.7	148.0
	POPULATION	159231.	176926.	131445.	140203.	122730.	127589.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44286.	45756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-61

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	22.2952	17.1905	17.0455	14.0706	13.2554
	POPULATION	69934.	63743.	51574.	53362.	44990.	43531.
65	AREA	9.7774	8.9345	7.0466	6.9589	5.9973	5.6259
	POPULATION	25238.	23538.	18478.	18978.	16107.	15236.
70	AREA	4.0948	3.5246	2.9425	2.9712	2.5373	2.5432
	POPULATION	7854.	6441.	5034.	5343.	4183.	4338.
75	AREA	1.5878	1.3935	1.2390	1.2510	1.1533	1.1560
	POPULATION	1409.	1101.	890.	950.	812.	843.
80	AREA	.9192	.9016	.7743	.7819	.7689	.6936
	POPULATION	392.	587.	273.	293.	289.	224.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-62

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2519.4	1942.5	1926.1	1590.0	1497.9
	POPULATION	7902507.	7202959.	5827827.	6029897.	5083888.	4919036.
65	AREA	1104.8	1009.6	796.3	786.4	677.7	635.7
	POPULATION	2851879.	2659829.	2087963.	2144548.	1820059.	1721674.
70	AREA	462.7	398.3	332.5	335.7	286.7	287.4
	POPULATION	887487.	727854.	568835.	603751.	472727.	490142.
75	AREA	179.4	157.5	140.0	141.4	130.3	130.6
	POPULATION	159231.	124452.	100585.	107382.	91735.	95239.
80	AREA	103.9	101.9	87.5	88.4	86.9	78.4
	POPULATION	44286.	43756.	30852.	33066.	32653.	25334.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-63

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	14.3443	11.5378	11.4940	10.2262	10.0186
	POPULATION	69934.	40334.	33485.	34804.	31459.	31714.
65	AREA	9.7774	7.3771	6.1173	6.1770	5.5360	5.4717
	POPULATION	25238.	18565.	15334.	16217.	14430.	14659.
70	AREA	4.0948	3.6885	3.1748	3.2058	2.8449	2.7744
	POPULATION	7854.	6928.	5726.	6075.	5124.	5064.
75	AREA	1.5878	1.5574	1.3958	1.4074	1.2302	1.2331
	POPULATION	1409.	1404.	1163.	1241.	945.	981.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-64

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

	YEAR	1975	1980	1985	1990	1995	2000
NOISE LEVEL (LDN)	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1620.9	1303.8	1298.8	1155.6	1132.1
	POPULATION	7902507.	4557728.	3783843.	3932846.	3554885.	3583680.
65	AREA	1104.8	833.6	691.3	698.0	625.6	618.3
	POPULATION	2851879.	2097820.	1732691.	1832473.	1630617.	1656476.
70	AREA	462.7	416.8	358.8	362.3	321.5	313.5
	POPULATION	887487.	782841.	647031.	686452.	578992.	572212.
75	AREA	179.4	176.0	157.5	159.0	139.0	139.3
	POPULATION	159231.	158670.	131445.	140203.	106758.	110822.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44286.	43756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-65

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	132.52	171.12	200.81	231.41	277.68
60	AREA	25.4045	20.0001	17.1905	17.2018	14.1475	13.7949
	POPULATION	69934.	57106.	51574.	53873.	45256.	45467.
65	AREA	9.7774	9.0164	7.7435	7.7408	6.5355	6.4736
	POPULATION	25238.	23799.	20835.	21739.	18070.	18424.
70	AREA	4.0948	4.0984	3.3297	3.3622	2.9987	2.8515
	POPULATION	7854.	8167.	6197.	6573.	5610.	5312.
75	AREA	1.5878	1.6394	1.3938	1.4074	1.3071	1.2331
	POPULATION	1409.	1566.	1163.	1241.	1086.	981.
80	AREA	.9192	.9016	.8518	.8601	.7689	.7707
	POPULATION	392.	387.	352.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-66

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT 8 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2260.0	1942.5	1943.8	1598.7	1558.8
	POPULATION	7902507.	6452999.	5827827.	6087616.	5113932.	5137801.
65	AREA	1104.8	1018.9	875.0	874.7	738.5	731.5
	POPULATION	2851879.	2689258.	2354346.	2456555.	2041898.	2081909.
70	AREA	462.7	463.1	376.3	379.9	338.8	322.2
	POPULATION	887487.	922856.	700246.	742714.	633924.	600223.
75	AREA	179.4	185.2	157.5	159.0	147.7	139.3
	POPULATION	159231.	176926.	131445.	140203.	122730.	110822.
80	AREA	103.9	101.9	96.3	97.2	86.9	87.1
	POPULATION	44286.	43756.	39817.	42638.	32653.	33928.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-67

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	277.68
60	AREA	.0000	.0000	.0000	.0000	.0000	6.1653
	POPULATION	0.	0.	0.	0.	0.	17263.
65	AREA	.0000	.0000	.0000	.0000	.0000	2.8515
	POPULATION	0.	0.	0.	0.	0.	5312.
70	AREA	.0000	.0000	.0000	.0000	.0000	1.5101
	POPULATION	0.	0.	0.	0.	0.	1127.
75	AREA	.0000	.0000	.0000	.0000	.0000	.8477
	POPULATION	0.	0.	0.	0.	0.	388.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0771
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-68

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	696.7
	POPULATION	0.	0.	0.	0.	0.	1950684.
65	AREA	.0	.0	.0	.0	.0	322.2
	POPULATION	0.	0.	0.	0.	0.	600223.
70	AREA	.0	.0	.0	.0	.0	148.0
	POPULATION	0.	0.	0.	0.	0.	127389.
75	AREA	.0	.0	.0	.0	.0	95.8
	POPULATION	0.	0.	0.	0.	0.	43604.
80	AREA	.0	.0	.0	.0	.0	8.7
	POPULATION	0.	0.	0.	0.	0.	4.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-69

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	277.68
60	AREA	.0000	.0000	.0000	.0000	.0000	5.7029
	POPULATION	0.	0.	0.	0.	0.	15525.
65	AREA	.0000	.0000	.0000	.0000	.0000	3.3139
	POPULATION	0.	0.	0.	0.	0.	6850.
70	AREA	.0000	.0000	.0000	.0000	.0000	1.5413
	POPULATION	0.	0.	0.	0.	0.	1615.
75	AREA	.0000	.0000	.0000	.0000	.0000	.9248
	POPULATION	0.	0.	0.	0.	0.	486.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0771
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-70

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	644.4
	POPULATION	0.	0.	0.	0.	0.	1754319.
65	AREA	.0	.0	.0	.0	.0	374.5
	POPULATION	0.	0.	0.	0.	0.	773997.
70	AREA	.0	.0	.0	.0	.0	174.2
	POPULATION	0.	0.	0.	0.	0.	182481.
75	AREA	.0	.0	.0	.0	.0	104.5
	POPULATION	0.	0.	0.	0.	0.	54922.
80	AREA	.0	.0	.0	.0	.0	8.7
	POPULATION	0.	0.	0.	0.	0.	4.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-71

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	277.68
60	AREA	.0000	.0000	.0000	.0000	.0000	6.7819
	POPULATION	0.	0.	0.	0.	0.	19566.
65	AREA	.0000	.0000	.0000	.0000	.0000	3.3909
	POPULATION	0.	0.	0.	0.	0.	7113.
70	AREA	.0000	.0000	.0000	.0000	.0000	1.5413
	POPULATION	0.	0.	0.	0.	0.	1615.
75	AREA	.0000	.0000	.0000	.0000	.0000	.9248
	POPULATION	0.	0.	0.	0.	0.	466.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0771
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-72

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	766.3
	POPULATION	0.	0.	0.	0.	0.	2213254.
65	AREA	.0	.0	.0	.0	.0	383.2
	POPULATION	0.	0.	0.	0.	0.	803777.
70	AREA	.0	.0	.0	.0	.0	174.2
	POPULATION	0.	0.	0.	0.	0.	182481.
75	AREA	.0	.0	.0	.0	.0	104.5
	POPULATION	0.	0.	0.	0.	0.	54922.
80	AREA	.0	.0	.0	.0	.0	8.7
	POPULATION	0.	0.	0.	0.	0.	4.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-73

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	22.4644	16.8835	17.4336	15.3034	15.6432
	POPULATION	69934.	64229.	50613.	54629.	49232.	52033.
65	AREA	9.7774	8.9366	6.8928	7.3487	6.7673	6.8584
	POPULATION	25238.	23545.	17957.	20355.	18916.	19875.
70	AREA	4.0948	3.5254	2.9430	2.9707	2.9223	2.9283
	POPULATION	7854.	6444.	5035.	5341.	5367.	5561.
75	AREA	1.5878	1.3938	1.2392	1.2508	1.2304	1.2330
	POPULATION	1409.	1102.	890.	950.	945.	981.
80	AREA	.9192	.9019	.7745	.7818	.7690	.7706
	POPULATION	392.	387.	273.	292.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-74

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT 8 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2538.5	1907.8	1970.0	1729.3	1767.7
	POPULATION	7902507.	7257891.	5719220.	6173030.	5563227.	5879697.
65	AREA	1104.8	1009.8	778.9	830.4	764.7	775.0
	POPULATION	2851879.	2660574.	2029151.	2300152.	2137550.	2245857.
70	AREA	462.7	398.4	332.6	335.7	330.2	330.9
	POPULATION	887487.	728127.	568996.	603584.	606494.	628443.
75	AREA	179.4	157.5	140.0	141.3	139.0	139.3
	POPULATION	159231.	124517.	100623.	107342.	106799.	110801.
80	AREA	103.9	101.9	87.5	88.3	86.9	87.1
	POPULATION	44286.	43783.	30866.	33051.	32668.	33920.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-75

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	14.4297	11.2299	11.6484	10.6893	10.9425
	POPULATION	69934.	40592.	32474.	35333.	33114.	35123.
65	AREA	9.7774	7.3788	6.0409	6.2542	6.0752	6.1648
	POPULATION	25238.	18570.	15075.	16489.	16391.	17261.
70	AREA	4.0948	3.8534	3.1753	3.3616	3.0761	3.1595
	POPULATION	7854.	7423.	5728.	6571.	5858.	6327.
75	AREA	1.5878	1.5577	1.3166	1.4072	1.3842	1.3871
	POPULATION	1409.	1405.	1023.	1240.	1236.	1282.
80	AREA	.9192	.9019	.7745	.8600	.8459	.8477
	POPULATION	392.	387.	273.	377.	373.	388.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-76

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1630.6	1209.0	1316.3	1207.9	1236.5
	POPULATION	7902507.	4586931.	3669557.	3992602.	3741920.	3968873.
65	AREA	1104.8	853.8	682.6	706.7	686.5	696.6
	POPULATION	2851879.	2098441.	1703517.	1863242.	1852153.	1950468.
70	AREA	462.7	435.4	358.8	379.9	347.6	357.0
	POPULATION	887487.	838751.	647208.	742516.	661968.	714986.
75	AREA	179.4	176.0	148.8	159.0	156.4	156.7
	POPULATION	159231.	158749.	115638.	140152.	139655.	144861.
80	AREA	103.9	101.9	87.5	97.2	95.6	95.8
	POPULATION	44286.	43783.	30866.	42620.	42185.	43794.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-77

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	20.0867	16.4963	17.4336	15.2265	15.5661
	POPULATION	69934.	57358.	49397.	54629.	48969.	51761.
65	AREA	9.7774	9.0185	7.5898	7.8178	7.2287	7.4748
	POPULATION	25238.	23805.	20316.	22011.	20602.	22199.
70	AREA	4.0948	4.2633	3.3302	3.5180	3.2299	3.3906
	POPULATION	7854.	8673.	6199.	7076.	6358.	7112.
75	AREA	1.5878	1.6397	1.3166	1.4854	1.3842	1.4641
	POPULATION	1409.	1566.	1023.	1397.	1236.	1445.
80	AREA	.9192	.9019	.7745	.8600	.8459	.8477
	POPULATION	392.	387.	273.	377.	373.	388.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-78

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2269.8	1864.1	1970.0	1720.6	1759.0
	POPULATION	7902507.	6481477.	5581864.	6173030.	5533468.	5848991.
65	AREA	1104.8	1019.1	857.7	883.4	816.8	844.7
	POPULATION	2851879.	2690010.	2295674.	2487206.	2327981.	2508503.
70	AREA	462.7	481.8	376.3	397.5	365.0	383.1
	POPULATION	887487.	980053.	700435.	799555.	718417.	803668.
75	AREA	179.4	185.3	148.8	167.8	156.4	165.4
	POPULATION	159231.	177012.	115638.	157838.	139655.	163238.
80	AREA	103.9	101.9	87.5	97.2	95.6	95.8
	POPULATION	44286.	43783.	30866.	42620.	42185.	43794.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-79

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	22.4644	16.8835	17.3554	14.6882	14.7955
	POPULATION	69934.	64229.	50613.	54374.	47121.	49034.
65	AREA	9.7774	8.9366	6.8928	7.1923	6.5366	6.5501
	POPULATION	25238.	23545.	17957.	19803.	18074.	18712.
70	AREA	4.0948	3.5254	2.9430	2.9707	2.9223	2.9263
	POPULATION	7854.	6444.	5035.	5341.	5367.	5561.
75	AREA	1.5878	1.3938	1.2392	1.2508	1.2304	1.2330
	POPULATION	1409.	1102.	890.	950.	945.	981.
80	AREA	.9192	.9019	.7745	.7818	.7690	.7706
	POPULATION	392.	387.	273.	292.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-80

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2538.5	1907.8	1961.2	1659.8	1671.9
	POPULATION	7902507.	7257891.	5719220.	6144232.	5324629.	5540376.
65	AREA	1104.8	1009.8	778.9	812.7	736.6	740.2
	POPULATION	2851879.	2660574.	2029151.	2237742.	2042343.	2114508.
70	AREA	462.7	398.4	332.6	335.7	330.2	330.9
	POPULATION	887487.	728127.	568996.	603584.	606494.	628443.
75	AREA	179.4	157.5	140.0	141.3	139.0	139.3
	POPULATION	159231.	124517.	100623.	107342.	106799.	110801.
80	AREA	103.9	101.9	87.5	88.3	86.9	87.1
	POPULATION	44296.	43783.	30866.	33051.	32668.	33920.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-81

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	14.4297	11.2299	11.5703	10.6124	10.7114
	POPULATION	69934.	40592.	32474.	35065.	32840.	34272.
65	AREA	9.7774	7.3788	6.0409	6.2542	5.9214	5.9336
	POPULATION	25238.	18570.	15075.	16489.	15830.	16391.
70	AREA	4.0948	3.8534	3.1753	3.2835	3.0761	3.0824
	POPULATION	7854.	7423.	5728.	6321.	5858.	6070.
75	AREA	1.5878	1.5577	1.3166	1.4072	1.3073	1.3100
	POPULATION	1409.	1405.	1023.	1240.	1087.	1127.
80	AREA	.9192	.9019	.7745	.8600	.7690	.8477
	POPULATION	392.	387.	273.	377.	289.	388.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-82

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1630.6	1269.0	1307.4	1199.2	1210.4
	POPULATION	7902507.	4586931.	3669557.	3962374.	3710915.	3872788.
65	AREA	1104.8	833.8	682.6	706.7	669.1	670.5
	POPULATION	2851879.	2098441.	1703517.	1863242.	1788838.	1852202.
70	AREA	462.7	435.4	358.8	371.0	347.6	348.3
	POPULATION	887487.	838751.	647208.	714287.	661968.	685883.
75	AREA	179.4	176.0	148.8	159.0	147.7	148.0
	POPULATION	159231.	158749.	115638.	140152.	122777.	127365.
80	AREA	103.9	101.9	87.5	97.2	86.9	95.8
	POPULATION	44286.	43783.	30866.	42620.	32668.	43794.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-83

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.55	288.56	357.43
60	AREA	25.4045	20.0867	16.4188	17.3554	14.7651	14.7955
	POPULATION	69934.	57358.	49153.	54374.	47385.	49034.
65	AREA	9.7774	9.0185	7.5898	7.8178	6.9980	7.0125
	POPULATION	25238.	23805.	20316.	22011.	19759.	20456.
70	AREA	4.0948	4.2633	3.3302	3.4398	3.2299	3.2365
	POPULATION	7854.	8673.	6199.	6823.	6358.	6587.
75	AREA	1.5878	1.6397	1.3166	1.4072	1.3073	1.3100
	POPULATION	1409.	1566.	1023.	1240.	1087.	1127.
80	AREA	.9192	.9019	.7745	.8600	.7690	.8477
	POPULATION	392.	387.	273.	377.	289.	388.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-84

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT 8 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2269.8	1855.3	1961.2	1668.5	1671.9
	POPULATION	7902507.	6481477.	5554345.	6144232.	5354520.	5540676.
65	AREA	1104.8	1019.1	857.7	883.4	790.8	792.4
	POPULATION	2851879.	2690010.	2295674.	2487206.	2232773.	2311539.
70	AREA	462.7	481.8	376.3	388.7	365.0	365.7
	POPULATION	887487.	980053.	700435.	770943.	718417.	744327.
75	AREA	179.4	185.3	148.8	159.0	147.7	148.0
	POPULATION	159231.	177012.	115638.	140152.	122777.	127365.
80	AREA	103.9	101.9	87.5	97.2	86.9	95.8
	POPULATION	44286.	43783.	30866.	42620.	32668.	43794.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-85

Exposure at AVport B

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.54	288.56	357.43
60	AREA	25.4045	22.4644	16.8835	17.2772	14.4575	14.3332
	POPULATION	69934.	64229.	50613.	54119.	46326.	47390.
65	AREA	9.7774	8.9366	6.8928	7.1923	6.3828	6.2419
	POPULATION	25238.	23545.	17957.	19803.	17512.	17551.
70	AREA	4.0948	3.5254	2.9430	2.9707	2.8454	2.9283
	POPULATION	7854.	6444.	5035.	5341.	5125.	5561.
75	AREA	1.5878	1.3938	1.2392	1.2508	1.1535	1.1559
	POPULATION	1409.	1102.	890.	950.	812.	843.
80	AREA	.9192	.9019	.7745	.7818	.7690	.7706
	POPULATION	392.	387.	273.	292.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-86

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2538.5	1907.8	1952.3	1633.7	1619.6
	POPULATION	7902507.	7257891.	5719220.	6115417.	5234839.	5355059.
65	AREA	1104.8	1009.8	778.9	812.7	721.3	705.3
	POPULATION	2851879.	2660574.	2029151.	2237742.	1978900.	1983255.
70	AREA	462.7	398.4	332.6	335.7	321.5	330.9
	POPULATION	887487.	728127.	568996.	603584.	579158.	628443.
75	AREA	179.4	157.5	140.0	141.3	130.3	130.6
	POPULATION	159231.	124517.	100623.	107342.	91771.	95221.
80	AREA	103.9	101.9	87.5	88.3	86.9	87.1
	POPULATION	44286.	43783.	30866.	33051.	32668.	33920.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-87

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.61	134.23	158.41	218.54	288.56	357.43
60	AREA	25.4045	14.4297	11.2299	11.5703	10.4586	10.5572
	POPULATION	69934.	40592.	32474.	35065.	32291.	33705.
65	AREA	9.7774	7.3788	6.0409	6.2542	5.9214	5.8566
	POPULATION	25238.	18570.	15075.	16489.	15830.	16102.
70	AREA	4.0948	3.8554	3.1753	3.2835	2.9992	3.0824
	POPULATION	7854.	7423.	5728.	6321.	5612.	6070.
75	AREA	1.5878	1.5577	1.3166	1.4072	1.3073	1.3100
	POPULATION	1409.	1405.	1023.	1240.	1087.	1127.
80	AREA	.9192	.9019	.7745	.8600	.7690	.7706
	POPULATION	392.	387.	273.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-88

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT 8 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 5 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	1630.6	1269.0	1307.4	1181.8	1193.0
	POPULATION	7902507.	4586931.	3569557.	3962374.	3648840.	3808620.
65	AREA	1104.8	835.8	682.6	706.7	669.1	661.8
	POPULATION	2851879.	2098441.	1703517.	1863242.	1788838.	1819485.
70	AREA	462.7	435.4	358.8	371.0	338.9	348.3
	POPULATION	887487.	838751.	647208.	714287.	634103.	685883.
75	AREA	179.4	176.0	148.8	159.0	147.7	148.0
	POPULATION	159231.	158749.	115638.	140152.	122777.	127365.
80	AREA	103.9	101.9	87.5	97.2	86.9	87.1
	POPULATION	44286.	43783.	30866.	42620.	32668.	33920.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-89

Exposure at AVport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	107.81	134.23	158.41	218.54	288.56	357.43
60	AREA	25.4045	20.0867	16.4188	17.3554	14.6113	14.4873
	POPULATION	69934.	57358.	49153.	54374.	46856.	47939.
65	AREA	9.7774	9.0185	7.5898	7.8178	6.9980	6.9354
	POPULATION	25238.	23805.	20316.	22011.	19759.	20165.
70	AREA	4.0948	4.2633	3.3302	3.4398	3.2299	3.2365
	POPULATION	7854.	6673.	6199.	6823.	6358.	6587.
75	AREA	1.5878	1.6397	1.3166	1.4072	1.3073	1.3100
	POPULATION	1409.	1566.	1023.	1240.	1087.	1127.
80	AREA	.9192	.9019	.7745	.8600	.7690	.7706
	POPULATION	392.	387.	273.	377.	289.	300.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-90

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	2870.7	2269.8	1855.3	1961.2	1651.1	1637.1
	POPULATION	7902507.	6481477.	5554345.	6144232.	5294718.	5417079.
65	AREA	1104.8	1019.1	857.7	883.4	790.8	783.7
	POPULATION	2651879.	2690010.	2295074.	2487206.	2232773.	2278698.
70	AREA	462.7	481.8	376.5	388.7	365.0	365.7
	POPULATION	887487.	980053.	700435.	770943.	718417.	744327.
75	AREA	179.4	185.3	148.8	159.0	147.7	148.0
	POPULATION	159231.	177012.	115638.	140152.	122777.	127365.
80	AREA	103.9	101.9	87.5	97.2	86.9	87.1
	POPULATION	44286.	43783.	30866.	42620.	32668.	33920.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-91

Exposure at AVport 6

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	357.43
60	AREA	.0000	.0000	.0000	.0000	.0000	7.0125
	POPULATION	0.	0.	0.	0.	0.	20456.
65	AREA	.0000	.0000	.0000	.0000	.0000	3.4677
	POPULATION	0.	0.	0.	0.	0.	7377.
70	AREA	.0000	.0000	.0000	.0000	.0000	1.6953
	POPULATION	0.	0.	0.	0.	0.	1975.
75	AREA	.0000	.0000	.0000	.0000	.0000	.9247
	POPULATION	0.	0.	0.	0.	0.	486.
80	AREA	.0000	.0000	.0000	.0000	.0000	.4624
	POPULATION	0.	0.	0.	0.	0.	66.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-92

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	792.4
	POPULATION	0.	0.	0.	0.	0.	2311539.
65	AREA	.0	.0	.0	.0	.0	391.9
	POPULATION	0.	0.	0.	0.	0.	833645.
70	AREA	.0	.0	.0	.0	.0	191.6
	POPULATION	0.	0.	0.	0.	0.	223189.
75	AREA	.0	.0	.0	.0	.0	104.5
	POPULATION	0.	0.	0.	0.	0.	54911.
80	AREA	.0	.0	.0	.0	.0	52.2
	POPULATION	0.	0.	0.	0.	0.	7453.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-93

Exposure at AVport B

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	357.43
60	AREA	.0000	.0000	.0000	.0000	.0000	6.7042
	POPULATION	0.	0.	0.	0.	0.	19294.
65	AREA	.0000	.0000	.0000	.0000	.0000	3.8530
	POPULATION	0.	0.	0.	0.	0.	8727.
70	AREA	.0000	.0000	.0000	.0000	.0000	2.0606
	POPULATION	0.	0.	0.	0.	0.	2980.
75	AREA	.0000	.0000	.0000	.0000	.0000	1.0018
	POPULATION	0.	0.	0.	0.	0.	545.
80	AREA	.0000	.0000	.0000	.0000	.0000	.5394
	POPULATION	0.	0.	0.	0.	0.	107.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-94

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	757.6
	POPULATION	0.	0.	0.	0.	0.	2180176.
65	AREA	.0	.0	.0	.0	.0	435.4
	POPULATION	0.	0.	0.	0.	0.	986161.
70	AREA	.0	.0	.0	.0	.0	235.1
	POPULATION	0.	0.	0.	0.	0.	336684.
75	AREA	.0	.0	.0	.0	.0	113.2
	POPULATION	0.	0.	0.	0.	0.	67222.
80	AREA	.0	.0	.0	.0	.0	61.0
	POPULATION	0.	0.	0.	0.	0.	12095.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-95

Exposure at Avport B

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.8745	.8745	.8745	.8745	.8745	.8745
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	357.43
60	AREA	.0000	.0000	.0000	.0000	.0000	8.0143
	POPULATION	0.	0.	0.	0.	0.	24229.
65	AREA	.0000	.0000	.0000	.0000	.0000	4.0842
	POPULATION	0.	0.	0.	0.	0.	9553.
70	AREA	.0000	.0000	.0000	.0000	.0000	2.0806
	POPULATION	0.	0.	0.	0.	0.	2980.
75	AREA	.0000	.0000	.0000	.0000	.0000	1.0018
	POPULATION	0.	0.	0.	0.	0.	595.
80	AREA	.0000	.0000	.0000	.0000	.0000	.5394
	POPULATION	0.	0.	0.	0.	0.	107.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-96

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT B FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	113.00	113.00	113.00	113.00	113.00	113.00
	P FACTOR **	113.00	113.00	113.00	113.00	113.00	113.00
60	AREA	.0	.0	.0	.0	.0	905.6
	POPULATION	0.	0.	0.	0.	0.	2737928.
65	AREA	.0	.0	.0	.0	.0	461.5
	POPULATION	0.	0.	0.	0.	0.	1079445.
70	AREA	.0	.0	.0	.0	.0	235.1
	POPULATION	0.	0.	0.	0.	0.	336684.
75	AREA	.0	.0	.0	.0	.0	113.2
	POPULATION	0.	0.	0.	0.	0.	67222.
80	AREA	.0	.0	.0	.0	.0	61.0
	POPULATION	0.	0.	0.	0.	0.	12095.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-97

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7370	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	645.02	869.05	996.97	1079.50	1277.43
60	AREA	-81.3894	72.1847	58.2908	59.2113	44.5275	44.2137
	POPULATION	8530429.	6531973.	4054539.	4398219.	2282346.	2317191.
65	AREA	26.1930	24.9253	21.8968	22.0816	17.6079	18.1140
	POPULATION	558808.	517789.	406213.	432255.	266425.	293465.
70	AREA	10.4547	10.4884	9.9668	10.3047	8.2960	8.7648
	POPULATION	68158.	71308.	66874.	75420.	46998.	55209.
75	AREA	4.6091	4.5655	4.0773	3.7620	3.5554	3.7007
	POPULATION	9585.	9720.	7712.	6553.	5854.	6704.
80	AREA	2.0235	2.0977	1.9632	2.1264	1.8624	1.7530
	POPULATION	1071.	1232.	1077.	1411.	998.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-98

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	144.4	116.6	118.4	89.1	88.4
	POPULATION	17060859.	13063946.	8109078.	8796438.	4564691.	4634382.
65	AREA	52.4	49.9	43.8	44.2	35.2	36.2
	POPULATION	1117616.	1035578.	812425.	864510.	532851.	586931.
70	AREA	20.9	21.0	19.9	20.6	16.6	17.5
	POPULATION	136315.	142615.	133747.	150840.	93996.	110418.
75	AREA	9.2	9.1	8.2	7.5	7.1	7.4
	POPULATION	19169.	19439.	15425.	13106.	11708.	13407.
80	AREA	4.0	4.2	3.9	4.3	3.7	3.5
	POPULATION	2142.	2464.	2153.	2821.	1996.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-99

Exposure at AVport C-1
PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4225	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	645.02	869.05	996.97	1079.50	1277.43
60	AREA	-81.3894	35.3160	32.7697	34.3491	30.1365	32.1577
	POPULATION	8530429.	1012303.	1028198.	1197713.	913376.	1094736.
65	AREA	26.1930	19.0025	19.1786	19.3009	16.9306	17.7244
	POPULATION	558808.	278377.	300095.	317836.	243617.	279263.
70	AREA	10.4547	10.1182	10.4199	10.6319	8.2960	9.1544
	POPULATION	68158.	65610.	74136.	81081.	46998.	61118.
75	AREA	4.6091	5.1825	4.6814	4.4163	3.8940	4.2850
	POPULATION	9585.	13317.	10923.	9853.	7400.	9745.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.8624	1.7530
	POPULATION	1071.	1683.	1614.	1737.	998.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-100

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.6	65.5	68.7	60.3	64.3
	POPULATION	17060859.	2024606.	2056397.	2395426.	1826751.	2189472.
65	AREA	52.4	38.0	38.4	38.6	35.9	35.4
	POPULATION	1117616.	556754.	600190.	635672.	487235.	558526.
70	AREA	20.9	20.2	20.8	21.3	16.6	16.3
	POPULATION	136315.	131220.	148271.	162161.	93996.	122236.
75	AREA	9.2	10.4	9.4	8.8	7.8	8.6
	POPULATION	19169.	26634.	21846.	19705.	14800.	19490.
80	AREA	4.0	4.7	4.5	4.6	3.7	3.5
	POPULATION	2142.	3365.	3228.	3473.	1996.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-101

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	645.02	869.05	996.97	1079.50	1277.43
60	AREA	-81.3894	64.0408	55.5726	56.4306	43.5117	45.7719
	POPULATION	8530429.	4843618.	3607819.	3909509.	2160344.	2516756.
65	AREA	26.1930	25.2955	23.8600	24.2079	19.8088	20.2565
	POPULATION	558808.	535615.	494449.	533553.	348589.	378768.
70	AREA	10.4547	11.7223	11.1749	11.2861	8.9732	9.9335
	POPULATION	68158.	92185.	87150.	93075.	56493.	73922.
75	AREA	4.6091	5.3059	4.8324	4.4163	3.8940	4.2850
	POPULATION	9585.	14111.	11822.	9853.	7400.	9745.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.8624	1.7530
	POPULATION	1071.	1683.	1614.	1737.	998.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-102

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	128.1	111.1	112.9	87.0	91.5
	POPULATION	17060859.	9687235.	7215637.	7819018.	4320688.	5033512.
65	AREA	52.4	50.6	47.7	48.4	39.6	40.5
	POPULATION	1117616.	1071231.	988897.	1067106.	697178.	757537.
70	AREA	20.9	23.4	22.3	22.6	17.9	19.9
	POPULATION	136315.	184370.	174300.	186149.	112985.	147844.
75	AREA	9.2	10.6	9.7	8.8	7.8	8.6
	POPULATION	19169.	28222.	23644.	19705.	14800.	19490.
80	AREA	4.0	4.7	4.5	4.6	3.7	3.5
	POPULATION	2142.	3365.	3228.	3473.	1996.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-103

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	72.1847	58.2908	58.2299	41.4800	39.5443
	POPULATION	8530429.	6531973.	4054559.	4221526.	1928612.	1757535.
65	AREA	26.1930	24.9253	21.8968	21.9180	17.2692	16.5558
	POPULATION	558808.	517789.	406215.	424967.	254878.	239010.
70	AREA	10.4547	10.4884	9.9668	10.1412	7.7881	8.3753
	POPULATION	68158.	71308.	66874.	72673.	40494.	49624.
75	AREA	4.6091	4.5655	4.0775	3.7620	3.5554	3.7007
	POPULATION	9585.	9720.	7712.	6553.	5854.	6704.
80	AREA	2.0235	2.0977	1.9632	2.1264	1.5238	1.7530
	POPULATION	1071.	1232.	1077.	1411.	552.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-104

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	144.4	116.6	116.5	83.0	78.7
	POPULATION	17060859.	13063946.	8109078.	8443052.	3857223.	3515070.
65	AREA	52.4	49.9	43.8	43.8	34.5	33.1
	POPULATION	1117616.	1035578.	812425.	849933.	509757.	478021.
70	AREA	20.9	21.0	19.9	20.3	15.6	16.6
	POPULATION	136315.	142615.	133747.	145347.	80987.	99247.
75	AREA	9.2	9.1	8.2	7.5	7.1	7.4
	POPULATION	19169.	19439.	15425.	13106.	11708.	13407.
80	AREA	4.0	4.2	3.9	4.3	3.0	3.5
	POPULATION	2142.	2464.	2153.	2821.	1104.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-105

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	33.3160	32.7697	34.0220	29.1207	30.1900
	POPULATION	8530429.	1012303.	1028198.	1171269.	843733.	946956.
65	AREA	26.1930	19.0025	19.1786	19.3009	16.0841	16.7506
	POPULATION	558808.	278377.	300095.	317836.	216702.	245476.
70	AREA	10.4547	10.1182	10.4199	10.4683	8.2960	8.9596
	POPULATION	68158.	65610.	74136.	78223.	46998.	58123.
75	AREA	4.6091	5.1825	4.6814	4.0892	3.8940	3.8955
	POPULATION	9585.	13317.	10923.	8110.	7400.	7648.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.8624	1.7530
	POPULATION	1071.	1683.	1614.	1737.	998.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-106

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.6	65.5	68.0	58.2	60.4
	POPULATION	17060859.	2024606.	2056397.	2342539.	1687466.	1893912.
65	AREA	52.4	38.0	38.4	38.6	32.2	33.5
	POPULATION	1117616.	556754.	600190.	635672.	433405.	490952.
70	AREA	20.9	20.2	20.8	20.9	16.6	17.9
	POPULATION	136315.	131220.	148271.	156445.	93996.	116246.
75	AREA	9.2	10.4	9.4	8.2	7.8	7.8
	POPULATION	19169.	26634.	21846.	16221.	14800.	15296.
80	AREA	4.0	4.7	4.5	4.6	3.7	3.5
	POPULATION	2142.	3365.	3228.	3473.	1996.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-107

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	64.0408	55.4216	55.7764	42.1573	40.9025
	POPULATION	8530429.	4843618.	3583970.	3799812.	2004060.	1926344.
65	AREA	26.1930	25.2955	23.8600	24.0444	18.9623	19.0879
	POPULATION	558808.	535615.	494449.	525323.	315513.	330717.
70	AREA	10.4547	11.7223	11.1749	11.2861	8.8039	9.1544
	POPULATION	68158.	92185.	87150.	93075.	54030.	61118.
75	AREA	4.6091	5.3059	4.8324	4.0892	3.8940	3.8955
	POPULATION	9585.	14111.	11822.	8110.	7400.	7648.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.8624	1.7530
	POPULATION	1071.	1683.	1614.	1737.	998.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-108

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	128.1	110.8	111.6	84.3	81.8
	POPULATION	17060859.	9687235.	7167939.	7599624.	4008121.	3852688.
65	AREA	52.4	50.6	47.7	48.1	37.9	38.2
	POPULATION	1117616.	1071231.	988897.	1050646.	631020.	661434.
70	AREA	20.9	23.4	22.3	22.6	17.6	18.3
	POPULATION	136315.	184370.	174300.	186149.	108060.	122236.
75	AREA	9.2	10.6	9.7	8.2	7.8	7.8
	POPULATION	19169.	28222.	23644.	16221.	14800.	15296.
80	AREA	4.0	4.7	4.5	4.6	3.7	3.5
	POPULATION	2142.	3365.	3228.	3473.	1996.	1726.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-109

Exposure at AVport C-1
PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	72.1847	58.2908	58.0663	41.1414	37.3966
	POPULATION	8530429.	6531973.	4054559.	4192527.	1891552.	1559643.
65	AREA	26.1930	24.9253	21.8968	21.9180	16.7613	16.5558
	POPULATION	558808.	517789.	406213.	424967.	238093.	239010.
70	AREA	10.4547	10.4884	9.9668	10.1412	7.7881	7.7910
	POPULATION	68158.	71308.	66874.	72673.	40494.	41847.
75	AREA	4.6091	4.5655	4.0773	3.7620	3.3861	3.5059
	POPULATION	9585.	9720.	7712.	6553.	5155.	5828.
80	AREA	2.0235	2.0977	1.9652	2.1264	1.5238	1.5582
	POPULATION	1071.	1232.	1077.	1411.	552.	609.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-110

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	144.4	116.6	116.1	82.3	74.8
	POPULATION	17060859.	13063946.	8109078.	8385053.	3783104.	3119286.
65	AREA	52.4	49.9	43.8	43.8	33.5	33.1
	POPULATION	1117616.	1035578.	812425.	849933.	476187.	478021.
70	AREA	20.9	21.0	19.9	20.3	15.6	15.6
	POPULATION	136315.	142615.	133747.	145347.	80987.	83694.
75	AREA	9.2	9.1	8.2	7.5	6.8	7.0
	POPULATION	19169.	19439.	15425.	13106.	10511.	11656.
80	AREA	4.0	4.2	3.9	4.3	3.0	3.1
	POPULATION	2142.	2464.	2153.	2821.	1104.	1219.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-111

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	33.3160	32.7697	54.0220	28.7821	29.6056
	POPULATION	8530429.	1012303.	1028198.	1171269.	821240.	905080.
65	AREA	26.1930	19.0025	19.1786	19.3009	16.0841	16.1662
	POPULATION	558808.	278377.	300095.	317836.	216702.	226367.
70	AREA	10.4547	10.1182	10.4199	10.4683	8.2960	8.5701
	POPULATION	68158.	65610.	74136.	78223.	46998.	52576.
75	AREA	4.6091	5.1825	4.6814	4.0892	3.8940	3.8955
	POPULATION	9585.	13317.	10923.	8110.	7400.	7648.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.6931	1.7530
	POPULATION	1071.	1683.	1614.	1737.	755.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-112

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.6	65.5	68.0	57.6	59.2
	POPULATION	17060859.	2024606.	2056397.	2342539.	1642480.	1810160.
65	AREA	52.4	38.0	38.4	38.6	32.2	32.3
	POPULATION	1117616.	556754.	600190.	635672.	433405.	452734.
70	AREA	20.9	20.2	20.8	20.9	16.6	17.1
	POPULATION	136315.	131220.	148271.	156445.	93996.	104752.
75	AREA	9.2	10.4	9.4	8.2	7.8	7.8
	POPULATION	19169.	26634.	21846.	16221.	14800.	15296.
80	AREA	4.0	4.7	4.5	4.6	3.4	3.5
	POPULATION	2142.	3365.	3228.	3473.	1511.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-113

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	645.02	869.05	996.97	1079.49	1277.43
60	AREA	-81.3894	64.0408	55.4216	55.4492	41.4800	39.9287
	POPULATION	8530429.	4843618.	3583970.	3745707.	1928612.	1819730.
65	AREA	26.1930	25.2955	23.8600	24.0444	18.6237	18.6983
	POPULATION	558808.	535615.	494449.	525323.	302802.	315515.
70	AREA	10.4547	11.7223	11.1749	11.2861	8.8039	8.7648
	POPULATION	68158.	92185.	87150.	93075.	54030.	55209.
75	AREA	4.6091	5.3059	4.8324	4.0892	3.8940	3.8955
	POPULATION	9585.	14111.	11822.	8110.	7400.	7648.
80	AREA	2.0235	2.3445	2.2652	2.2899	1.6931	1.7530
	POPULATION	1071.	1683.	1614.	1737.	755.	864.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-114

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	128.1	110.8	110.9	83.0	79.9
	POPULATION	17060859.	9687235.	7167939.	7491413.	3857223.	3639460.
65	AREA	52.4	50.6	47.7	48.1	37.2	37.4
	POPULATION	1117616.	1071231.	988897.	1050646.	605604.	631030.
70	AREA	20.9	23.4	22.3	22.6	17.6	17.5
	POPULATION	136315.	184370.	174300.	186149.	108060.	110418.
75	AREA	9.2	10.6	9.7	8.2	7.8	7.8
	POPULATION	19169.	28222.	23644.	16221.	14800.	15296.
80	AREA	4.0	4.7	4.5	4.6	3.4	3.5
	POPULATION	2142.	3365.	3228.	3473.	1511.	1728.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-115

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1277.43
60	AREA	.0000	.0000	.0000	.0000	.0000	15.1924
	POPULATION	0.	0.	0.	0.	0.	196422.
65	AREA	.0000	.0000	.0000	.0000	.0000	8.5701
	POPULATION	0.	0.	0.	0.	0.	52376.
70	AREA	.0000	.0000	.0000	.0000	.0000	3.7007
	POPULATION	0.	0.	0.	0.	0.	6704.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.1425
	POPULATION	0.	0.	0.	0.	0.	1538.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-116

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	30.4
	POPULATION	0.	0.	0.	0.	0.	392844.
65	AREA	.0	.0	.0	.0	.0	17.1
	POPULATION	0.	0.	0.	0.	0.	104752.
70	AREA	.0	.0	.0	.0	.0	7.4
	POPULATION	0.	0.	0.	0.	0.	13407.
75	AREA	.0	.0	.0	.0	.0	4.3
	POPULATION	0.	0.	0.	0.	0.	3076.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-117

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1277.43
60	AREA	.0000	.0000	.0000	.0000	.0000	16.3610
	POPULATION	0.	0.	0.	0.	0.	232641.
65	AREA	.0000	.0000	.0000	.0000	.0000	9.3492
	POPULATION	0.	0.	0.	0.	0.	64195.
70	AREA	.0000	.0000	.0000	.0000	.0000	4.2850
	POPULATION	0.	0.	0.	0.	0.	9745.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.3373
	POPULATION	0.	0.	0.	0.	0.	1962.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-118

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	32.7
	POPULATION	0.	0.	0.	0.	0.	465281.
65	AREA	.0	.0	.0	.0	.0	18.7
	POPULATION	0.	0.	0.	0.	0.	128391.
70	AREA	.0	.0	.0	.0	.0	8.6
	POPULATION	0.	0.	0.	0.	0.	19490.
75	AREA	.0	.0	.0	.0	.0	4.7
	POPULATION	0.	0.	0.	0.	0.	3924.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-119

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6511	.4558	.4223	.3843	.3207
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1277.43
60	AREA	.0000	.0000	.0000	.0000	.0000	17.9192
	POPULATION	0.	0.	0.	0.	0.	286315.
65	AREA	.0000	.0000	.0000	.0000	.0000	9.5439
	POPULATION	0.	0.	0.	0.	0.	67355.
70	AREA	.0000	.0000	.0000	.0000	.0000	4.2850
	POPULATION	0.	0.	0.	0.	0.	9745.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.3373
	POPULATION	0.	0.	0.	0.	0.	1962.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-120

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	35.8
	POPULATION	0.	0.	0.	0.	0.	572629.
65	AREA	.0	.0	.0	.0	.0	19.1
	POPULATION	0.	0.	0.	0.	0.	134710.
70	AREA	.0	.0	.0	.0	.0	8.6
	POPULATION	0.	0.	0.	0.	0.	19490.
75	AREA	.0	.0	.0	.0	.0	4.7
	POPULATION	0.	0.	0.	0.	0.	3924.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-121

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1267.34	1536.35
60	AREA	-81.3894	72.8583	59.0104	58.7091	43.3130	43.7592
	POPULATION	8530429.	6686633.	4178412.	4307227.	2136961.	2260898.
65	AREA	26.1930	24.9121	21.8506	22.1949	17.9440	19.5829
	POPULATION	558808.	517156.	404252.	437347.	278172.	350620.
70	AREA	10.4547	10.6408	9.7423	9.4865	9.0751	8.7035
	POPULATION	68158.	73729.	63425.	62232.	58003.	54308.
75	AREA	4.6091	4.6319	3.8969	4.1168	3.9188	4.1100
	POPULATION	9585.	10077.	6871.	8250.	7521.	8768.
80	AREA	2.0235	2.1282	2.0876	2.1479	1.8563	1.9341
	POPULATION	1071.	1283.	1283.	1451.	989.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-122

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	145.7	118.0	117.4	86.6	87.5
	POPULATION	17060859.	13373266.	8356824.	8614455.	4273922.	4521796.
65	AREA	52.4	49.8	45.7	44.4	35.9	39.2
	POPULATION	1117616.	1034313.	808504.	874695.	556343.	701239.
70	AREA	20.9	21.3	19.5	19.0	18.2	17.4
	POPULATION	136315.	147459.	126849.	124463.	116006.	108616.
75	AREA	9.2	9.3	7.8	8.2	7.8	8.2
	POPULATION	19169.	20154.	13743.	16500.	15042.	17536.
80	AREA	4.0	4.3	4.2	4.3	3.7	3.9
	POPULATION	2142.	2566.	2566.	2902.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-123

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1267.34	1536.35
60	AREA	-81.3894	33.4247	31.0361	35.4403	32.5879	35.5393
	POPULATION	8530429.	1020012.	906250.	1288498.	1095104.	1384122.
65	AREA	26.1930	19.2787	18.5103	20.0470	17.9440	19.0993
	POPULATION	558808.	287698.	276763.	346583.	278172.	331171.
70	AREA	10.4547	10.0149	10.0206	10.5605	9.6939	10.3958
	POPULATION	68158.	64066.	67715.	79826.	67643.	82149.
75	AREA	4.6091	5.0075	4.4536	4.2958	4.5376	4.5935
	POPULATION	9585.	12233.	9640.	9189.	10900.	11606.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.9341
	POPULATION	1071.	1507.	1539.	1816.	989.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-124

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.8	62.1	70.9	65.2	71.1
	POPULATION	17060859.	2040024.	1812501.	2576996.	2190207.	2768244.
65	AREA	52.4	38.6	37.0	40.1	35.9	38.2
	POPULATION	1117616.	575396.	553526.	693166.	556343.	662342.
70	AREA	20.9	20.0	20.0	21.1	19.4	20.8
	POPULATION	136315.	128131.	135430.	159653.	135287.	164298.
75	AREA	9.2	10.0	8.9	8.6	9.1	9.2
	POPULATION	19169.	24467.	19281.	18378.	21801.	23212.
80	AREA	4.0	4.5	4.5	4.7	3.7	3.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-125

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1267.34	1536.35
60	AREA	-81.3894	64.5960	54.0001	55.6662	44.9630	46.1769
	POPULATION	8530429.	4948459.	3364359.	3781544.	2535920.	2570307.
65	AREA	26.1930	25.6632	23.1031	24.3428	20.6252	21.0334
	POPULATION	558808.	553669.	459249.	540395.	382270.	412776.
70	AREA	10.4547	11.6423	11.1340	11.2764	10.1064	10.3958
	POPULATION	68158.	90743.	86416.	92890.	74520.	82149.
75	AREA	4.6091	5.2578	4.7320	4.4748	4.5376	4.5935
	POPULATION	9585.	13799.	11220.	10184.	10900.	11606.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.9341
	POPULATION	1071.	1507.	1539.	1816.	969.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.
** POPULATION GROWTH FACTOR.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-126

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	129.2	108.0	111.3	89.9	92.4
	POPULATION	17060859.	9896917.	6728719.	7563087.	4671840.	5140614.
65	AREA	52.4	51.3	46.2	48.7	41.5	42.1
	POPULATION	1117616.	1107537.	918499.	1080790.	764539.	825552.
70	AREA	20.9	23.5	22.3	22.6	20.2	20.6
	POPULATION	136315.	181486.	172832.	185781.	149039.	164298.
75	AREA	9.2	10.5	9.5	8.9	9.1	9.2
	POPULATION	19169.	27598.	22440.	20367.	21801.	23212.
80	AREA	4.0	4.5	4.5	4.7	3.7	3.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-127

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1284.15	1536.35
60	AREA	-81.3894	72.8583	59.0104	57.2772	41.2505	39.8910
	POPULATION	8530429.	6686633.	4178412.	4054407.	1903439.	1815682.
65	AREA	26.1930	24.9121	21.8506	22.0159	17.5515	18.1323
	POPULATION	558808.	517156.	404252.	429322.	263795.	294142.
70	AREA	10.4547	10.6408	9.7423	9.4865	8.6626	8.2200
	POPULATION	68158.	73729.	63425.	62232.	52020.	47486.
75	AREA	4.6091	4.6319	3.8969	4.1168	3.9188	4.1100
	POPULATION	9585.	10077.	6871.	8250.	7521.	8768.
80	AREA	2.0235	2.1282	2.0876	2.1479	1.8563	1.9341
	POPULATION	1071.	1283.	1283.	1451.	989.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-128

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	145.7	118.0	114.6	82.5	79.8
	POPULATION	17060859.	13373266.	8356824.	8108814.	3806877.	3631363.
65	AREA	52.4	49.8	43.7	44.0	35.1	36.3
	POPULATION	1117616.	1034313.	808504.	858643.	527590.	588284.
70	AREA	20.9	21.3	19.5	19.0	17.3	16.4
	POPULATION	136315.	147459.	126849.	124463.	104040.	94973.
75	AREA	9.2	9.3	7.8	8.2	7.8	8.2
	POPULATION	19169.	20154.	13743.	16500.	15042.	17536.
80	AREA	4.0	4.3	4.2	4.3	3.7	3.9
	POPULATION	2142.	2566.	2566.	2902.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-129

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1284.15	1536.35
60	AREA	-81.3894	33.4247	31.0361	35.0823	31.5566	32.8799
	POPULATION	8530429.	1020012.	906250.	1258273.	1016263.	1154426.
65	AREA	26.1930	19.2787	18.5103	19.6890	17.5315	18.6158
	POPULATION	558808.	287698.	276763.	332614.	263795.	312547.
70	AREA	10.4547	10.0149	10.0206	10.5605	9.4876	9.6705
	POPULATION	68158.	64066.	67715.	79826.	64341.	69453.
75	AREA	4.6091	5.0075	4.4536	4.2958	4.1250	4.3517
	POPULATION	9585.	12233.	9640.	9189.	8571.	10132.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.9341
	POPULATION	1071.	1507.	1539.	1816.	989.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-130

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.8	62.1	70.2	63.1	65.8
	POPULATION	17060859.	2040024.	1812501.	2516547.	2032526.	2308853.
65	AREA	52.4	38.6	37.0	39.4	35.1	37.2
	POPULATION	1117616.	575396.	553526.	665228.	527590.	624694.
70	AREA	20.9	20.0	20.0	21.1	19.0	19.3
	POPULATION	136315.	128131.	135430.	159653.	128681.	138906.
75	AREA	9.2	10.0	8.9	8.6	8.3	8.7
	POPULATION	19169.	24467.	19281.	18378.	17142.	20264.
80	AREA	4.0	4.5	4.5	4.7	3.7	3.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-131

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.61	650.40	798.68	1047.31	1284.15	1536.35
60	AREA	-81.3894	64.5960	54.0001	55.1293	42.9005	43.5175
	POPULATION	8530429.	4948459.	3364359.	3693264.	2088922.	2231300.
65	AREA	26.1930	25.6632	23.1031	23.9848	20.0065	20.3082
	POPULATION	558808.	553669.	459249.	522346.	356581.	380978.
70	AREA	10.4547	11.6423	11.1340	11.2764	9.6939	9.9123
	POPULATION	68158.	90743.	86416.	92890.	67643.	73556.
75	AREA	4.6091	5.2578	4.7320	4.4748	4.1250	4.3517
	POPULATION	9585.	13799.	11220.	10184.	8571.	10132.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.9341
	POPULATION	1071.	1507.	1539.	1816.	989.	1149.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-132

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	129.2	108.0	110.3	85.8	87.0
	POPULATION	17060859.	9896917.	6728719.	7386529.	4177845.	4462599.
65	AREA	52.4	51.3	46.2	48.0	40.0	40.6
	POPULATION	1117616.	1107337.	918499.	1044691.	713162.	761955.
70	AREA	20.9	23.3	22.3	22.6	19.4	19.8
	POPULATION	136315.	181486.	172832.	185781.	135287.	147113.
75	AREA	9.2	10.5	9.5	8.9	8.3	8.7
	POPULATION	19169.	27598.	22440.	20367.	17142.	20264.
80	AREA	4.0	4.5	4.5	4.7	3.7	3.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	2298.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-133

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	650.40	798.68	1047.31	1267.34	1536.31
60	AREA	-81.3894	72.8583	59.0104	56.9192	39.6005	38.4404
	POPULATION	8530429.	6686633.	4178412.	3992722.	1728424.	1663908.
65	AREA	26.1930	24.9121	21.8506	22.0159	17.5315	17.4070
	POPULATION	558808.	517156.	404252.	429322.	263795.	267981.
70	AREA	10.4547	10.6408	9.7423	9.4865	8.2501	7.9782
	POPULATION	68158.	73729.	63425.	62232.	46388.	44261.
75	AREA	4.6091	4.6319	3.8969	4.1168	3.7125	3.8682
	POPULATION	9585.	10077.	6871.	8250.	6546.	7512.
80	AREA	2.0235	2.1282	2.0876	2.1479	1.8563	1.4506
	POPULATION	1071.	1283.	1283.	1451.	989.	491.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-134

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	145.7	118.0	113.8	79.2	76.9
	POPULATION	17060859.	13373266.	8356824.	7985445.	3456848.	3327815.
65	AREA	52.4	49.8	43.7	44.0	35.1	34.8
	POPULATION	1117616.	1034313.	808504.	858643.	527590.	535963.
70	AREA	20.9	21.3	19.5	19.0	16.5	16.0
	POPULATION	136315.	147459.	126849.	124463.	92777.	88522.
75	AREA	9.2	9.3	7.8	8.2	7.4	7.7
	POPULATION	19169.	20154.	13745.	16500.	13092.	15023.
80	AREA	4.0	4.3	4.2	4.3	3.7	2.9
	POPULATION	2142.	2566.	2566.	2902.	1977.	962.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-135

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	650.40	798.68	1047.31	1267.34	1536.31
60	AREA	-81.3894	33.4247	31.0361	35.0823	31.3504	31.9128
	POPULATION	8530429.	1020012.	906250.	1258273.	1000914.	1077019.
65	AREA	26.1930	19.2787	18.5103	19.6890	17.1190	18.3740
	POPULATION	558808.	287698.	276763.	332614.	249845.	303168.
70	AREA	10.4547	10.0149	10.0206	10.5605	9.2814	9.1870
	POPULATION	66158.	64066.	67715.	79826.	61127.	51628.
75	AREA	4.6091	5.0075	4.4536	4.2958	4.1250	4.1100
	POPULATION	9585.	12233.	9640.	9189.	8571.	8768.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.4506
	POPULATION	1071.	1507.	1539.	1816.	989.	491.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-136

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	66.8	62.1	70.2	62.7	63.8
	POPULATION	17060859.	2040024.	1812501.	2516547.	2001828.	2154039.
65	AREA	52.4	38.6	37.0	39.4	34.2	36.7
	POPULATION	1117616.	575396.	553526.	665228.	499690.	606335.
70	AREA	20.9	20.0	20.0	21.1	18.6	18.4
	POPULATION	136315.	128131.	135430.	159653.	122254.	123256.
75	AREA	9.2	10.0	8.9	8.6	8.5	8.2
	POPULATION	19169.	24467.	19281.	18378.	17142.	17536.
80	AREA	4.0	4.5	4.5	4.7	3.7	2.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	982.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-137

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	521.85	650.40	798.68	1047.31	1267.34	1536.31
60	AREA	-81.3894	64.5960	54.0001	55.1295	42.4880	41.5833
	POPULATION	8530429.	4948459.	3364359.	3693264.	2041555.	2003096.
65	AREA	26.1930	25.6632	23.1031	23.9848	19.8002	20.0664
	POPULATION	558808.	553669.	459249.	522346.	348243.	370699.
70	AREA	10.4547	11.6423	11.1340	11.2764	9.4876	9.4288
	POPULATION	68158.	90745.	86416.	92890.	64341.	65477.
75	AREA	4.6091	5.2578	4.7320	4.4748	4.1250	4.1100
	POPULATION	9585.	13799.	11220.	10184.	8571.	8768.
80	AREA	2.0235	2.2534	2.2268	2.3269	1.8563	1.4506
	POPULATION	1071.	1507.	1559.	1816.	989.	491.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-138

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	-162.8	129.2	108.0	110.3	85.0	83.2
	POPULATION	17060859.	9896917.	6728719.	7386529.	4083110.	4006193.
65	AREA	52.4	51.3	46.2	48.0	39.6	40.1
	POPULATION	1117616.	1107337.	918499.	1044691.	696486.	741399.
70	AREA	20.9	23.3	22.3	22.6	19.0	18.9
	POPULATION	136315.	181486.	172832.	185781.	128681.	130954.
75	AREA	9.2	10.5	9.5	8.9	8.3	8.2
	POPULATION	19169.	27598.	22440.	20367.	17142.	17536.
80	AREA	4.0	4.5	4.5	4.7	3.7	2.9
	POPULATION	2142.	3014.	3077.	3631.	1977.	982.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-139

Exposure at AVport C-1

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1536.35
60	AREA	.0000	.0000	.0000	.0000	.0000	18.8576
	POPULATION	0.	0.	0.	0.	0.	321681.
65	AREA	.0000	.0000	.0000	.0000	.0000	10.3958
	POPULATION	0.	0.	0.	0.	0.	82149.
70	AREA	.0000	.0000	.0000	.0000	.0000	4.5935
	POPULATION	0.	0.	0.	0.	0.	11606.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.6594
	POPULATION	0.	0.	0.	0.	0.	2797.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-140

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	37.7
	POPULATION	0.	0.	0.	0.	0.	643363.
65	AREA	.0	.0	.0	.0	.0	20.8
	POPULATION	0.	0.	0.	0.	0.	164298.
70	AREA	.0	.0	.0	.0	.0	9.2
	POPULATION	0.	0.	0.	0.	0.	23212.
75	AREA	.0	.0	.0	.0	.0	5.3
	POPULATION	0.	0.	0.	0.	0.	5594.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-141

Exposure at AVport C-1

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1536.35
60	AREA	.0000	.0000	.0000	.0000	.0000	20.0664
	POPULATION	0.	0.	0.	0.	0.	370699.
65	AREA	.0000	.0000	.0000	.0000	.0000	11.3629
	POPULATION	0.	0.	0.	0.	0.	100897.
70	AREA	.0000	.0000	.0000	.0000	.0000	5.3188
	POPULATION	0.	0.	0.	0.	0.	16693.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.9012
	POPULATION	0.	0.	0.	0.	0.	3537.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-142

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	40.1
	POPULATION	0.	0.	0.	0.	0.	741399.
65	AREA	.0	.0	.0	.0	.0	22.7
	POPULATION	0.	0.	0.	0.	0.	201794.
70	AREA	.0	.0	.0	.0	.0	10.6
	POPULATION	0.	0.	0.	0.	0.	33386.
75	AREA	.0	.0	.0	.0	.0	5.8
	POPULATION	0.	0.	0.	0.	0.	7074.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-143

Exposure at AVport C-1

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	.7376	.6408	.5078	.3764	.2952	.2408
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	1536.35
60	AREA	.0000	.0000	.0000	.0000	.0000	21.7587
	POPULATION	0.	0.	0.	0.	0.	446035.
65	AREA	.0000	.0000	.0000	.0000	.0000	11.3629
	POPULATION	0.	0.	0.	0.	0.	100897.
70	AREA	.0000	.0000	.0000	.0000	.0000	5.3188
	POPULATION	0.	0.	0.	0.	0.	16693.
75	AREA	.0000	.0000	.0000	.0000	.0000	2.9012
	POPULATION	0.	0.	0.	0.	0.	3537.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-144

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-1 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	2.00	2.00	2.00	2.00	2.00	2.00
	P FACTOR **	2.00	2.00	2.00	2.00	2.00	2.00
60	AREA	.0	.0	.0	.0	.0	43.5
	POPULATION	0.	0.	0.	0.	0.	892070.
65	AREA	.0	.0	.0	.0	.0	22.7
	POPULATION	0.	0.	0.	0.	0.	201794.
70	AREA	.0	.0	.0	.0	.0	10.6
	POPULATION	0.	0.	0.	0.	0.	33386.
75	AREA	.0	.0	.0	.0	.0	5.8
	POPULATION	0.	0.	0.	0.	0.	7074.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-145

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.2756	3.1664	3.2857	3.0566	2.9783
	POPULATION	1476.	1904.	1923.	2106.	1980.	1975.
65	AREA	1.4851	1.5468	1.4548	1.5564	1.4434	1.4466
	POPULATION	555.	619.	587.	689.	625.	647.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-146

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.3	566.8	588.1	547.1	533.1
	POPULATION	264256.	340852.	344215.	377061.	354469.	353527.
65	AREA	265.8	276.9	260.4	278.6	258.4	258.9
	POPULATION	99419.	110828.	105087.	123419.	111806.	115697.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29063.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-147

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.7358	3.7441
	POPULATION	1476.	2246.	2398.	2535.	2562.	2653.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-148

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	668.7	670.2
	POPULATION	264236.	402009.	429269.	453833.	458647.	474866.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.6	137.1
	POPULATION	3810.	24153.	29063.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-149

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.7358	3.7441
	POPULATION	1476.	2246.	2398.	2535.	2562.	2653.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-150

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	668.7	670.2
	POPULATION	264236.	402009.	429269.	453853.	458647.	474866.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29065.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-151

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	16.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.2756	3.1664	3.2857	2.9717	2.9783
	POPULATION	1476.	1904.	1923.	2106.	1907.	1975.
65	AREA	1.4851	1.5468	1.4548	1.5564	1.4434	1.4466
	POPULATION	555.	619.	587.	689.	625.	647.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-152

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.3	566.8	588.1	531.9	533.1
	POPULATION	264236.	340852.	344215.	377061.	341375.	353527.
65	AREA	265.8	276.9	260.4	278.6	258.4	258.9
	POPULATION	99419.	110828.	105087.	123419.	111806.	115697.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29063.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-153

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.7358	3.4889
	POPULATION	1476.	2246.	2398.	2535.	2562.	2428.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-154

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	668.7	624.5
	POPULATION	264236.	402009.	429269.	453833.	458647.	434605.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29063.	31061.	30795.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-155

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.7358	3.6590
	POPULATION	1476.	2246.	2398.	2535.	2562.	2578.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3715	.7279	.7702	.7782	.7642	.7656
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-156

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	668.7	655.0
	POPULATION	264236.	402009.	429269.	453833.	458647.	461471.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29063.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-157

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7646	3.2756	3.1664	3.2857	2.9717	2.8932
	POPULATION	1476.	1904.	1923.	2106.	1907.	1699.
65	AREA	1.4851	1.5468	1.4548	1.5564	1.4434	1.4466
	POPULATION	555.	619.	587.	689.	625.	647.
70	AREA	.3713	.7279	.7702	.7782	.7642	.6808
	POPULATION	21.	135.	162.	174.	172.	135.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-158

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.3	566.8	588.1	531.9	517.9
	POPULATION	264236.	340852.	344215.	377061.	341375.	339971.
65	AREA	265.8	276.9	260.4	278.6	256.4	256.9
	POPULATION	99419.	110828.	105087.	123419.	111806.	115897.
70	AREA	66.5	130.3	137.9	139.3	136.8	121.9
	POPULATION	3810.	24153.	29063.	31061.	30793.	24221.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-159

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.6509	3.4889
	POPULATION	1476.	2246.	2398.	2555.	2490.	2428.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-160

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	653.5	624.5
	POPULATION	264236.	402009.	429269.	453833.	445701.	434605.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29065.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-161

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.21	24.85	30.64	37.39	44.77
60	AREA	2.7846	3.7306	3.7655	3.8044	3.6509	3.4889
	POPULATION	1476.	2246.	2398.	2535.	2490.	2428.
65	AREA	1.4851	1.7288	1.6260	1.7293	1.6132	1.6168
	POPULATION	555.	747.	712.	824.	758.	785.
70	AREA	.3713	.7279	.7702	.7782	.7642	.7658
	POPULATION	21.	135.	162.	174.	172.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-162

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	674.0	681.0	653.5	624.5
	POPULATION	264236.	402009.	429269.	453833.	445701.	434605.
65	AREA	265.8	309.5	291.1	309.5	288.8	289.4
	POPULATION	99419.	133746.	127415.	147437.	135644.	140583.
70	AREA	66.5	130.3	137.9	139.3	136.8	137.1
	POPULATION	3810.	24153.	29063.	31061.	30793.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-163

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	44.77
60	AREA	.0000	.0000	.0000	.0000	.0000	1.9572
	POPULATION	0.	0.	0.	0.	0.	1073.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.1062
	POPULATION	0.	0.	0.	0.	0.	391.
70	AREA	.0000	.0000	.0000	.0000	.0000	.5404
	POPULATION	0.	0.	0.	0.	0.	20.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-164

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	350.3
	POPULATION	0.	0.	0.	0.	0.	192106.
65	AREA	.0	.0	.0	.0	.0	198.0
	POPULATION	0.	0.	0.	0.	0.	70074.
70	AREA	.0	.0	.0	.0	.0	60.9
	POPULATION	0.	0.	0.	0.	0.	3552.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-165

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	44.77
60	AREA	.0000	.0000	.0000	.0000	.0000	2.2124
	POPULATION	0.	0.	0.	0.	0.	1296.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.2764
	POPULATION	0.	0.	0.	0.	0.	515.
70	AREA	.0000	.0000	.0000	.0000	.0000	.3404
	POPULATION	0.	0.	0.	0.	0.	20.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-166

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	396.0
	POPULATION	0.	0.	0.	0.	0.	231913.
65	AREA	.0	.0	.0	.0	.0	228.5
	POPULATION	0.	0.	0.	0.	0.	92274.
70	AREA	.0	.0	.0	.0	.0	60.9
	POPULATION	0.	0.	0.	0.	0.	3552.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-167

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 1

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	44.77
60	AREA	.0000	.0000	.0000	.0000	.0000	2.2975
	POPULATION	0.	0.	0.	0.	0.	1370.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.2764
	POPULATION	0.	0.	0.	0.	0.	515.
70	AREA	.0000	.0000	.0000	.0000	.0000	.3404
	POPULATION	0.	0.	0.	0.	0.	20.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-168

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 1)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	411.3
	POPULATION	0.	0.	0.	0.	0.	245317.
65	AREA	.0	.0	.0	.0	.0	228.5
	POPULATION	0.	0.	0.	0.	0.	92274.
70	AREA	.0	.0	.0	.0	.0	60.9
	POPULATION	0.	0.	0.	0.	0.	3552.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-169

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	51.34	63.38
60	AREA	2.7846	3.2758	2.9951	3.4591	3.5659	3.6590
	POPULATION	1476.	1904.	1786.	2250.	2417.	2578.
65	AREA	1.4851	1.5469	1.4548	1.6431	1.6151	1.6168
	POPULATION	555.	619.	587.	756.	758.	785.
70	AREA	.3713	.7279	.6846	.7783	.7641	.9360
	POPULATION	21.	135.	123.	174.	172.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-170

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.4	536.1	619.2	638.3	655.0
	POPULATION	264236.	340872.	319746.	402813.	432705.	461471.
65	AREA	265.8	276.9	260.4	294.1	288.8	289.4
	POPULATION	99419.	110836.	105079.	135369.	135633.	140583.
70	AREA	66.5	130.3	122.5	139.3	136.8	167.6
	POPULATION	3810.	24156.	22039.	31070.	30790.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-171

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.35	22.32	34.30	51.34	63.38
60	AREA	2.7846	3.7307	3.5941	3.8915	3.9904	3.9994
	POPULATION	1476.	2246.	2263.	2607.	2778.	2876.
65	AREA	1.4851	1.7289	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.9359	.9360
	POPULATION	21.	135.	123.	174.	268.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-172

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

	YEAR	1975	1980	1985	1990	1995	2000
NOISE LEVEL (LDN)	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	643.4	696.6	714.3	715.9
	POPULATION	264236.	402031.	405049.	466621.	497299.	514884.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	167.2	167.6
	POPULATION	3810.	24156.	22039.	31070.	47968.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-173

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 1 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.35	22.52	34.30	51.34	63.38
60	AREA	2.7846	3.8217	3.6797	3.9779	4.0753	4.0845
	POPULATION	1476.	2314.	2330.	2678.	2850.	2951.
65	AREA	1.4851	1.7289	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.9339	.9360
	POPULATION	21.	135.	123.	174.	268.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-174

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A
TECHNOLOGY LEVEL 1 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	684.1	658.7	712.0	729.5	731.1
	POPULATION	264236.	414190.	417158.	479303.	510136.	528165.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	167.2	167.6
	POPULATION	3810.	24156.	22039.	31070.	47968.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-175

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	52.36	63.38
60	AREA	2.7846	3.2758	2.9951	3.4591	3.5659	3.6590
	POPULATION	1476.	1904.	1786.	2250.	2417.	2578.
65	AREA	1.4851	1.5469	1.4548	1.6431	1.6131	1.6168
	POPULATION	555.	619.	587.	756.	758.	785.
70	AREA	.3713	.7279	.6846	.7783	.7641	.9360
	POPULATION	21.	135.	123.	174.	172.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-176

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

	YEAR	1975	1980	1985	1990	1995	2000
NOISE LEVEL (LDN)	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.4	536.1	619.2	638.3	655.0
	POPULATION	264236.	340872.	319746.	402813.	432703.	461471.
65	AREA	265.8	276.9	260.4	294.1	288.8	289.4
	POPULATION	99419.	110836.	105079.	135369.	135633.	140583.
70	AREA	66.5	130.3	122.5	139.3	136.8	167.6
	POPULATION	3810.	24156.	22039.	31070.	30790.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-177

Exposure at Avport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	52.36	63.38
60	AREA	2.7846	3.7307	3.5941	3.8915	3.9904	3.9994
	POPULATION	1476.	2246.	2263.	2607.	2778.	2876.
65	AREA	1.4851	1.7289	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.9339	.9360
	POPULATION	21.	135.	123.	174.	268.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-178

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	643.4	696.6	714.3	715.9
	POPULATION	264236.	402031.	405049.	466621.	497299.	514884.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	167.2	167.6
	POPULATION	3810.	24156.	22039.	31070.	47968.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-179

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.250	1.270
	OPERATIONS	12.97	18.33	22.52	34.30	52.36	63.38
60	AREA	2.7846	3.8217	3.6797	3.9779	4.0753	4.0845
	POPULATION	1476.	2314.	2330.	2678.	2850.	2951.
65	AREA	1.4851	1.7269	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.9339	.9360
	POPULATION	21.	135.	123.	174.	268.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-180

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 2 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	684.1	658.7	712.0	729.5	731.1
	POPULATION	264236.	414190.	417158.	479303.	510136.	528165.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	167.2	167.6
	POPULATION	3810.	24156.	22039.	31070.	47968.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-181

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	51.34	63.36
60	AREA	2.7846	3.2758	2.9951	3.4591	3.4810	3.5739
	POPULATION	1476.	1904.	1786.	2250.	2345.	2503.
65	AREA	1.4851	1.5469	1.4548	1.6431	1.6131	1.6168
	POPULATION	555.	619.	587.	756.	758.	785.
70	AREA	.3713	.7279	.6846	.7783	.7641	.9360
	POPULATION	21.	135.	123.	174.	172.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-182

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	586.4	536.1	619.2	623.1	639.7
	POPULATION	264236.	340872.	319746.	402813.	419709.	448050.
65	AREA	265.8	276.9	260.4	294.1	288.8	289.4
	POPULATION	99419.	110836.	105079.	135369.	135633.	140583.
70	AREA	66.5	130.3	122.5	139.3	136.8	167.6
	POPULATION	3810.	24156.	22039.	31070.	30790.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-183

Exposure at AVport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	51.34	63.36
60	AREA	2.7846	3.7307	3.5941	3.8915	3.9055	3.9994
	POPULATION	1476.	2246.	2263.	2607.	2706.	2876.
65	AREA	1.4851	1.7289	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.8490	.9360
	POPULATION	21.	135.	123.	174.	218.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-184

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	667.8	643.4	696.6	699.1	715.9
	POPULATION	264236.	402031.	405049.	466621.	484434.	514884.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	152.0	167.6
	POPULATION	3810.	24156.	22039.	31070.	39035.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-185

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	12.97	18.33	22.32	34.30	51.34	63.38
60	AREA	2.7846	3.8217	3.6797	3.9779	3.9904	4.0845
	POPULATION	1476.	2314.	2330.	2678.	2778.	2951.
65	AREA	1.4851	1.7289	1.6259	1.7295	1.8678	1.8721
	POPULATION	555.	747.	712.	824.	965.	1000.
70	AREA	.3713	.7279	.6846	.7783	.8490	.9360
	POPULATION	21.	135.	123.	174.	218.	278.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-186

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3 AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	498.4	684.1	658.7	712.0	714.3	731.1
	POPULATION	264236.	414190.	417158.	479303.	497299.	528165.
65	AREA	265.8	309.5	291.0	309.6	334.3	335.1
	POPULATION	99419.	133755.	127404.	147471.	172754.	179020.
70	AREA	66.5	130.3	122.5	139.3	152.0	167.6
	POPULATION	3810.	24156.	22039.	31070.	39035.	49767.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-187

Exposure at AVport C-2

PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	63.38
60	AREA	.0000	.0000	.0000	.0000	.0000	2.5528
	POPULATION	0.	0.	0.	0.	0.	1596.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.3615
	POPULATION	0.	0.	0.	0.	0.	581.
70	AREA	.0000	.0000	.0000	.0000	.0000	.6808
	POPULATION	0.	0.	0.	0.	0.	135.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-188

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 1 TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	457.0
	POPULATION	0.	0.	0.	0.	0.	285770.
65	AREA	.0	.0	.0	.0	.0	245.7
	POPULATION	0.	0.	0.	0.	0.	103933.
70	AREA	.0	.0	.0	.0	.0	121.9
	POPULATION	0.	0.	0.	0.	0.	24221.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-189

Exposure at Avport C-2

PROCEDURE LEVEL 2 TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	63.38
60	AREA	.0000	.0000	.0000	.0000	.0000	2.9783
	POPULATION	0.	0.	0.	0.	0.	1975.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.4466
	POPULATION	0.	0.	0.	0.	0.	647.
70	AREA	.0000	.0000	.0000	.0000	.0000	.7658
	POPULATION	0.	0.	0.	0.	0.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-190

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES
EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS.
(PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2
TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	533.1
	POPULATION	0.	0.	0.	0.	0.	353527.
65	AREA	.0	.0	.0	.0	.0	258.9
	POPULATION	0.	0.	0.	0.	0.	115897.
70	AREA	.0	.0	.0	.0	.0	137.1
	POPULATION	0.	0.	0.	0.	0.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-191

Exposure at AVport C-2

PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A FLEET LEVEL 5

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	FACTOR *	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	GROWTH **	1.040	1.080	1.140	1.190	1.230	1.270
	OPERATIONS	.00	.00	.00	.00	.00	63.38
60	AREA	.0000	.0000	.0000	.0000	.0000	3.0634
	POPULATION	0.	0.	0.	0.	0.	2051.
65	AREA	.0000	.0000	.0000	.0000	.0000	1.4466
	POPULATION	0.	0.	0.	0.	0.	647.
70	AREA	.0000	.0000	.0000	.0000	.0000	.7658
	POPULATION	0.	0.	0.	0.	0.	179.
75	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0000	.0000	.0000	.0000	.0000	.0000
	POPULATION	0.	0.	0.	0.	0.	0.

* FACTOR FOR NUMBER OF RUNWAY OPERATIONS.

** POPULATION GROWTH FACTOR.

NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).

NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.

NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

Table F-192

ESTIMATE OF THE POPULATION AND AREA IN THE UNITED STATES EXPOSED TO NOISE LEVELS FROM AIRCARRIER AIRCRAFT OPERATIONS. (PARTIAL RESULTS PROJECTED FROM AVPORT C-2 FOR PROCEDURE LEVEL 2A TECHNOLOGY LEVEL 3A AND FLEET LEVEL 5)

NOISE LEVEL (LDN)	YEAR	1975	1980	1985	1990	1995	2000
	A FACTOR *	179.00	179.00	179.00	179.00	179.00	179.00
	P FACTOR **	179.00	179.00	179.00	179.00	179.00	179.00
60	AREA	.0	.0	.0	.0	.0	548.3
	POPULATION	0.	0.	0.	0.	0.	357076.
65	AREA	.0	.0	.0	.0	.0	258.9
	POPULATION	0.	0.	0.	0.	0.	115897.
70	AREA	.0	.0	.0	.0	.0	137.1
	POPULATION	0.	0.	0.	0.	0.	31957.
75	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.
80	AREA	.0	.0	.0	.0	.0	.0
	POPULATION	0.	0.	0.	0.	0.	0.

* AREA SCALING FACTORS.
** POPULATION SCALING FACTORS.
NOTE 1. AREA GIVEN IN SQUARE MILES (STATUTE).
NOTE 2. 1975 IS ALWAYS BASELINE PROCEDURE.
NOTE 3. NEGATIVE AREAS INDICATE THAT NOISE LEVEL EXCEEDED GRID BOUNDARY.

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
EPA 550/9-79-313-2		

4. TITLE AND SUBTITLE	5. REPORT DATE
Noise Exposure of Civil Aircarrier Airplanes Through the Year 2000. Volume II: Appendices A through F.	Approved February 1979
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)	8. PERFORMING ORGANIZATION REPORT NO.
Carroll Bartel and Louis C. Sutherland	WR 78-11
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT NO.
Wyle Laboratories, Wyle Research 128 Maryland Street El Segundo, CA 90245	11. CONTRACT/GRANT NO. EPA 68-01-3514
12. SPONSORING AGENCY NAME AND ADDRESS	13. TYPE OF REPORT AND PERIOD COVERED
Office of Noise Abatement and Control Environmental Protection Agency Washington, D.C. 20460	Final, Aug. 1977-Feb. 1979 14. SPONSORING AGENCY CODE EPA/ONAC ANR-471

15. SUPPLEMENTARY NOTES
Volume I contains methods, procedures, and results. Volume II contains detailed supporting data in the form of Appendices A through F.

16. ABSTRACT
This report presents results of an estimate of the national exposure to aircarrier aircraft noise through the year 2000. The forecast was carried out to show the effect of two types of noise abatement options. The first consisted of modifications to FAR Part 36 proposed to the Federal Aviation Administration (Notice 76-22) by the U.S. Environmental Protection Agency which would establish lower noise limits for newly designed aircraft in the years 1980 and 1985. The second type consisted of alternative power cutback procedures (FAA AC 91-39 and two variations of ALPA/ Northwest Airlines procedure) coupled with minor variations on approach procedures.

The effect of these proposed options was evaluated from estimates of the total area or number of people exposed within selected day/night average noise level contours around all of the nation's airports. The analysis assumed future aircraft just meet the various noise rules considered. It also included: (1) two levels of fleet growth; (2) a national model for noise exposure using statistically average airports; and (3) a model for population density around aircarrier airports based on 1970 census. The study emphasized noise exposure for subsonic aircarrier aircraft; however, a brief analysis is also shown for the isolated exposure of only supersonic aircraft operations which would result from a worldwide fleet of SST aircraft resulting from only 16 Concordes to a total of 100 SST aircraft.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Aircraft Noise, Concorde, FAR Part 36, Flight Procedures, Noise Contours, Noise Exposure, Noise Rules, Subsonic Aircraft, Supersonic Transports.		

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
Release Unlimited	Unclassified	285
	20. SECURITY CLASS *(This page)*	22. PRICE
	Unclassified	

EPA Form 2220-1 (9-73)

*U.S. GOVERNMENT PRINTING OFFICE : 1980 0-620-621/749

United States
Environmental Protection
Agency

Official Business
Penalty for Private Use
$300

Special Fourth-Class Rate
Book
Postage and Fees Paid
EPA
Permit No. G-35

Washington DC 20460