

## DOCUMENT RESUME

ED 050 351

AC 010 344

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TITLE The Pilot Training Study: A User's Guide to the Undergraduate Pilot Training Computer Cost Model.  
INSTITUTION Rand Corp., Santa Monica, Calif.  
SPONS AGENCY Department of the Air Force, Washington, D.C.  
REPORT NO RM-6084-PR  
PUB DATE Dec 69  
NOTE 213p.

EDRS PRICE MF-\$0.65 HC-\$9.87  
DESCRIPTORS \*Computer Programs, \*Cost Effectiveness, \*Educational Programs, \*Flight Training, Guides, \*Models  
IDENTIFIERS Project RAND, \*Undergraduate Pilot Training, UPT

## ABSTRACT

This Memorandum is a manual or guide for users of the Undergraduate Pilot Training (UPT) computer cost model. The UPT model is designed to enable the user to estimate UPT requirements for manpower, supplies, equipment, services and facilities and the costs of those resources in terms of research and development costs, investment costs and annual operating costs. Section I of the Memorandum is an introductory explanation of the purposes of the model. Section II is a general description of the program in terms of what each subroutine does. Section III illustrates a feature unique to the IBM 360 operating system, used with this computer program to reduce the core storage requirement for execution. Section IV describes data inputs and illustrates the input procedure using a listing of a sample input deck. Section V contains a description of two forms of output and an illustration of one of these forms. The UPT cost model program is written in FORTRAN IV. During execution, the program requires approximately 145K bytes of core storage on an IBM 360/65 computer, if the OVERLAY feature is used. All input data are read from cards and the output is printed. A listing of the program input data elements is presented in Appendix A. A symbolic listing of the Fortran IV computer program is included as Appendix B. Appendix C presents the program in flowchart form. For related documents, see AC 010 340-343 and AC 010 345-347. (Author/CK)

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MEMORANDUM

RM-3084-PR

DECEMBER 1969

# THE PILOT TRAINING STUDY: A User's Guide to the Undergraduate Pilot Training Computer Cost Model

Lois Littleton

PREPARED FOR:

UNITED STATES AIR FORCE PROJECT RAND

The **RAND** Corporation  
SANTA MONICA • CALIFORNIA

ED050351

MEMORANDUM  
RM-6084-PR  
DECEMBER 1969

**THE PILOT TRAINING STUDY:  
A User's Guide to the Undergraduate  
Pilot Training Computer Cost Model**

Lois Littleton

This research is supported by the United States Air Force under Project RAND--Contract No. F41620-67-C-0045--monitored by the Directorate of Operational Requirements and Development Plans, Deputy Chief of Staff, Research and Development, Hq USAF. Views or conclusions contained in this study should not be interpreted as representing the official opinion or policy of the United States Air Force.

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PREFACE

In April 1967, the Office of the Assistant Secretary of Defense (Manpower and Reserve Affairs) formed a Pilot Advisory Committee to study "Pilots as a National Resource." The Committee consisted of the Assistant Secretary and a representative of each of the three Services. Staff members from Rand were invited to attend the early meetings of the Committee. The outgrowth was that the Air Force member requested Rand to accept responsibility for examining the Air Force pilot training process. The objective of the Rand Pilot Training Study was to develop a series of computer models for use in estimating the resources required to produce pilots and the costs of training them. Further, the models were to be designed for sensitivity analyses and long-range planning.

For the convenience of readers whose interests may not extend to all aspects of the pilot training process, the results of the study are presented in eight volumes as follows:

Volume		
I	RM-6080-PR	The Pilot Training Study: Personnel Flow and the PILOT Model, by W. E. Mooz.
II	RM-6081-PR	The Pilot Training Study: A User's Guide to the PILOT Model, by Lois Littleton.
III	RM-6082-PR	The Pilot Training Study: Precommissioning Training, by J. W. Cook.
IV	RM-6083-PR	The Pilot Training Study: A Cost-Estimating Model for Undergraduate Pilot Training, by S. L. Allison.
V	RM-6084-PR	The Pilot Training Study: A User's Guide to the Undergraduate Pilot Training Model, by Lois Littleton.
VI	RM-6085-PR	The Pilot Training Study: Advanced Pilot Training, by P. J. Kennedy.
VII	RM-6086-PR	The Pilot Training Study: A Cost-Estimating Model for Advanced Pilot Training, by L. E. Knollmeyer.
VIII	RM-6087-PR	The Pilot Training Study: A User's Guide to the Advanced Pilot Training Computer Cost Model (APT), by H. E. Boren, Jr.

This Memorandum, Volume V of the series, describes the Undergraduate Pilot Training (UPT) Computer Cost Model, a computer model developed for use in estimating both the resources required and the attendant costs for any given configuration of the Undergraduate Pilot Training (UPT) Program. The procedures described herein may be followed without reference to the other Memorandums in the series. However, for an understanding of the purpose for which the model was constructed, the user will find it useful to read Volume IV which describes undergraduate pilot training. It is further suggested that the user read Volume I for an understanding of the part that UPT plays in the total process of training USAF pilots.

SUMMARY

This Memorandum is a manual or guide for users of the UPT cost model. The UPT computer model is designed to enable the user to estimate UPT requirements for manpower, supplies, equipment, services and facilities and the costs of those resources in terms of research and development costs, investment costs and annual operating costs. The model gives the user the options of estimating the current or long-range costs of the existing UPT program and the impact that virtually any program change will have on required resources and costs. Among the alternatives that can be examined are changes in the numbers and types of training aircraft and simulators; adjustments in prescribed syllabus hours for flight, simulator or classroom training; changes in numbers of graduates required; modifications of aircraft or simulator utilization rates, and changes in airspace, facilities (e.g., runways) or numbers of training bases.

Section I of the Memorandum is an introductory explanation of the purposes of the model. Section II is a general description of the program in terms of what each subroutine does. Section III illustrates a feature unique to the IBM 360 operating system, used with this computer program to reduce the core storage requirement for execution. Section IV describes data inputs and illustrates the input procedure using a listing of a sample input deck. Section V contains a description of two forms of output and an illustration of one of these forms.

The UPT cost model program is written in FORTRAN IV. During execution, the program requires approximately 145K bytes of core storage on an IBM 360/65 computer if the OVERLAY feature is used. Approximately 350K bytes of core storage are required if the OVERLAY feature is not employed. As indicated above, all input data are read from cards and the output is printed.

A listing of the program input data elements is presented in Appendix A. A symbolic listing of the FORTRAN IV computer program is included as Appendix B. Appendix C presents the program in flowchart form.

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## I. INTRODUCTION

The purpose of the UPT Cost Model is to provide a means for estimating the resources that will be required and the costs that will be incurred in conducting Undergraduate Pilot Training (UPT).

As explained in Volume IV of the Pilot Training Study,<sup>\*</sup> most UPT trainees are newly-commissioned graduates of the Air Force Academy (AFA), Reserve Officer Training Corps (ROTC) and Officer Training School (OTS). Other trainees are rated and non-rated officers who enter UPT from active Air Force duty. Also, UPT training is given to various Air National Guard, Marine and foreign officers.

Undergraduate pilot training is conducted by the Air Training Command. The 53-week course provides flight training in three phases, the first phase using the single-engine, propeller-driven T-41; the second, the subsonic-jet T-37; and the third, the Supersonic T-38. The training is conducted at 10 ATC bases, where almost 4000 pilots are produced annually. During flying year 1961, more than one million training hours were logged in the T-37 and T-38 aircraft, and over 3000 training sorties were launched each day from the UPT bases.

About three-fourths of the entering students successfully complete the 53-week UPT course and thus earn their wings. They are then given survival training before being enrolled in one of the many advanced pilot training (APT) courses to qualify as a pilot of a specific type and model of USAF operational aircraft.

The UPT Cost Model is a tool for measuring the long-range effect of alternative policies and conditions such as changes in the required number of graduates, changes in course syllabus and changes in the training facilities. It can process requirements for a maximum of 20 years and 15 bases, and for a maximum of three training phases.

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<sup>\*</sup>See Preface.

## II. PROGRAM DESCRIPTION

The computer program UPT consists of a main routine and 35 subroutines. The main routine establishes array dimensions, specifies variable equivalences, reads control cards, sets the yearly input data (designated "array T") initially to zero, and calls each of the 35 subroutines. Each of the subroutines will be described briefly in the order in which they are called.

RTEXT	Reads from cards and prints text that describes the problem being executed.
INPUT	Reads input data from cards.
CUMCL	Computes the cumulative course length for each year.
ATTRLS	Computes entries excluding attrition into UPT for each year.
OTS	Computes entries into UPT from OTS for each year.
AVATTR	Computes the average attrition in UPT for all sources for each year and phase.
FNTGRD	Computes the entry--graduate average by year of UPT graduation for each year and phase.
STLOAD	Computes the student load for each year and phase.
CAP	Computes base capability and loading for each year, base and phase.
PRINT1	Prints the UPT capability summary.
PRINT2	Prints the UPT base capability for each base.
PRINT3	Prints the UPT program.
ZERO	Initializes variables used in subroutines OPMANP, MAMANP, FSMANP, VSMANP, ACCUM, and PRINT4.
OPMANP	Computes operations manpower required for each year and base.
MAMANP	Computes maintenance and administrative manpower required for each year and base.
FSMANP	Computes fixed support manpower required for each year and base.
VSMANP	Computes variable support manpower required for each year and base.
ACCUM	Accumulates manpower personnel required by year and base.
PRINT4	Prints UPT manpower required for each base.
EQUIP	Computes equipment required for each year, base, and phase.

PRINT5 Prints the UPT aircraft summary.  
PRINT6 Prints the UPT simulator summary.  
FACIL Computes facilities required for each year and base.  
INVCE Computes the investment cost for equipment for each year.  
INVCM Computes the investment cost for manpower for each year.  
INVCF Computes the investment cost for facilities for each year.  
ZERO1 Initializes the variables used in subroutine OPERC.  
OPERC Computes operating costs for each year.  
COSTB Accumulates costs by base.  
COSTP Accumulates costs by phase.  
PRINT7 Prints UPT costs for each base.  
PRINT8 Prints UPT costs not assignable to base.  
PRINT9 Prints UPT costs for each phase.  
PRINT10 Prints UPT costs not assignable to phase.  
PRINT11 Prints the UPT cost summary.

### III. OVERLAY STRUCTURE

The linkage editor feature OVERLAY, unique to the IBM 360 operating system, was used to reduce the amount of core required for execution. (See IBM Manual C28-6538 for a description of this feature.)

The Job Control Language cards used to implement the OVERLAY feature with the UPT Cost Model program are listed in the sequence shown below. The first card (//LKED.SYSIN DD \*) and end card (/\*) begin in column 1. The remaining cards begin in column 2 with a blank column 1 as indicated by the letter b.

```
//LKED.SYSIN DD *
bINSERT MAIN
bOVERLAY ONE
bINSERT INPUT
bOVERLAY TWO
bINSERT CUMCL
bOVERLAY TWO
bINSERT OTS
bOVERLAY TWO
bINSERT CAP
bOVERLAY TWO
bINSERT EQUIP
bOVERLAY TWO
bINSERT FACIL
bOVERLAY ONE
bINSERT ATTRLS
bOVERLAY ONE
bINSERT AVATTR
bOVERLAY ONE
bINSERT ENTGRD
bOVERLAY ONE
bINSERT STLOAD
bOVERLAY ONE
bINSERT PRINT1
bOVERLAY ONE
bINSERT PRINT2
bOVERLAY ONE
bINSERT PRINT3
bOVERLAY ONE
bINSERT ZERO
bOVERLAY ONE
bINSERT OPMAIP
bOVERLAY ONE
bINSERT MAMANP
```

```
boverlay one
binsert fsmanf
boverlay one
binsert vsmanf
boverlay one
binsert accum
boverlay one
binsert print4
boverlay one
binsert print5
boverlay one
binsert print6
boverlay one
binsert invce
boverlay one
binsert invcm
boverlay one
binsert invcf
boverlay one
binsert zero1
boverlay one
binsert operc
boverlay one
binsert costb
boverlay one
binsert costp
boverlay one
binsert print7
boverlay one
binsert print8
boverlay one
binsert print9
boverlay one
binsert print10
boverlay one
binsert prnt11
boverlay one
binsert rtext
/*
```

If object modules are used, they should be placed immediately following the "LKED" card and before the "INSERT MAIN" card.

The following option must appear on the "EXEC" card when OVERLAY is used:

```
PARM.LKED='OVLY'
```

#### IV. INPUT DECK DESCRIPTION

The input deck consists first of a set of text cards, then a control card, and finally the data cards.

The text cards contain the descriptive text that is printed initially to describe the problem being executed. Any number of cards can be used. The text must be punched in columns 1-72. The last text card must have a "9" punched in column 80, signifying the end of the text section of the input deck. If the user does not desire a description of the problem to be printed, he must still include a card with only the "9" punched in column 80.

The control card contains the following information

- NYRS = number of years in problem.
- NBYR = last two digits of base year (for example, if base year is 1960, NBYR would be 60).
- BASES = number of bases existing in base year.
- INDC = 0, if only formal output is desired.  
= 1, if extended output is desired (the two forms of output will be discussed in the output description section).
- INDCC = 1, if extended output for facilities is desired;  
= 0, if extended output for facilities is not desired.

The format for the control card is as follows:

Variable Name	Location (columns)	Format
NYRS	1-2	I2
NBYR	6-7	I2
BASES	11-12	F2.0
INDC	15	I1
INDCC	18	I1

All input data for one year are stored in the array T. These data are divided into 7 types for use in output computations. The purposes for which the computations are made and the series of index numbers used for input data identification are shown in Table 1.

Table 1

DATA TYPES, STORAGE INDICES AND COMPUTATION USES

Data Type	Storage Indices <sup>a</sup>	Used for Computation of
1	T(1) - T(30)	Course lengths
2	T(31) - T(55)	Student loads
3	T(56) - T(499)	Base capacities and loads
4	T(500) - T(1460) <sup>a</sup>	Manpower requirements
5	T(2532) - T(2621) T(1461) - T(1625)	
6	T(1931) - T(1936)	Equipment requirements
7	T(1626) - T(1901)	Facility requirements
	T(1902) - T(2531) <sup>b</sup>	Costs

<sup>a</sup>The complete list of indices for all input data is shown in Appendix A. The numbers do not run in sequence because, as the program was developed, the need for additional index numbers for data types 4 and 5 became apparent.

<sup>b</sup>It may be noted in Appendix A that index numbers 728-730, 2109-2128 and 2427 are not used; they have been reserved for possible future use.

The input data are read in type sequence, each type being read and used for all years. The data for each new year replaces data contained in array T for the preceding year. Hence, if the value of a data element does not change from one year to the next, that data element does not need to be entered again for the year of no change.

Each data card has the same format. Each must contain a type number NTYPE and the year NYR; NYR will be "1" if the base year data are being entered and so on.

The index of T associated with a data element must precede that data element on a card. One card can accommodate seven such pairs.

The format of a data card is as follows:



Variable Name	Location (Columns)	Format
NTYPE	1-2	I2
NYR	5-6	I2
First index	9-12	I4
Data element (first index)	13-18	F6.3
Second index	19-22	I4
Data element (second index)	23-28	F6.3
Third index	29-32	I4
Data element (third index)	33-38	F6.3
Fourth index	39-42	I4
Data element (fourth index)	43-48	F6.3
Fifth index	49-52	I4
Data element (fifth index)	53-58	F6.3
Sixth index	59-62	I4
Data element (sixth index)	63-68	F6.3
Seventh index	69-72	I4
Data element (seventh index)	73-78	F6.3

Each data element is read in an F6.3 format. This format specifies a field 6 columns wide containing 3 decimal places. If a data element containing 1-6 digits and no decimal point is placed in the 6-column field, it would be read and used as a number containing 1-6 digits and 3 decimal places. The decimal point is always placed between the third and fourth columns of the 6-column field. For example, the data element 765972 would be read as 765.972. If the number 5 were placed in the fourth column of the 6-column field, it would be read as .5. A "5" placed in the sixth column would be read as .005; a "2" placed in the second column would be read as 20. If a data element containing 1-5 digits and a punched decimal point is placed in the 5-column field, it would be read and used exactly as entered. The punched decimal point overrides the input format decimal specification. Hence, a number containing more than 3 decimal places can be entered in the program. For example, the data element 1.0451 placed on a data card will be used as 1.0451.

To summarize, a data element can be placed on a data card as a number containing 1-6 digits and no decimal point. In this case, a decimal point would be read according to the F format specification. On the other hand,

a data element containing 1-5 digits and a decimal point can be entered, in which case the punched decimal point overrides the implied decimal point location as specified by the F format.

Data for one year of any type can continue on as many data cards as necessary. A "9999" must be punched in the index field directly following the last data element for one year. The "9999" indicates the end of data for that year. Data for the next year should begin on the next card.

The data cards must be ordered first by type, then by year, so that type 1 data for all years is placed first followed by type 2 data for all years and so on through the seven types.

The program checks the type number and the year on each card for order. Error messages are printed if a card is out of order, and execution is then terminated. Also, the program checks to ensure that there is at least one card for each year in every type section.

If the data for one year is the same as that of the preceding year, one input card is required for the year of no change. This card will contain the type number, the year number, and a "9999" in the first index field.

There is no need to enter data elements not relevant to the problem.

All possible input data elements are listed in Appendix A by type and index number. Note that some type 7 data elements are input in millions and thousands (e.g., data elements with indices 1902 and 1905). The names listed on the right-hand side of each page are those used in the FORTRAN-IV program and in the flowcharts presented in Appendix C.

Figure 1 illustrates a sample input deck. Notice that in this sample deck there is one text card. It contains only a "9" in column 80 because the printing of a descriptive text was not desired.

The control card specifies a problem consisting of three years with base year 1970, one base, and only formal output desired.

For all seven types of data, the data values do not change for the second and third years. A "9999" in the first index field of all type cards containing a "2" or "3" in the year field illustrates this point.

```

3  70  1
1  1  1 30  2 90  3120  4 .9716  5 .9716  6 .9716  7 5
1  1  8 14  13 3  14 5  17 62  18147  19 90  20 38
1  1  21 47  22 90  24 18  25 24  26 15  27 15  28 5
1  1  29 8  30350  9999
1  2  9999
1  3  9999
2  1  31 50  32150  33 10  34 30  35 60  36 04  37 05
2  1  38 03  39 06  40 13  41 05  42 02  43 02  44 03
2  1  45 16  46 17  47 05  48 08  49 09  50 07  51 16
2  1  52 17  53 05  54 5  55 30  9999
2  2  9999
2  3  9999
3  1  56 1  60 1  61 1  150 3  151 3  195 75  196 75
3  1  240 85  241 90  285 35  286 30  464 122  466 80  467 75
3  1  469 05  470 05  472 97  473 97  475 93  476 85  9999
3  2  9999
3  3  9999
4  1  501 82  502 73  504 1000.  505 1000.  507 27  508 27  510 3
4  1  511 3  512 38  527 6  542 3  557 9  573 06  574 06
4  1  576 1  577 1  579 7  580 7  624 2  625 2  668 1
4  1  683 13  698 7  713 2  732 103  733 103  735 17  736 17
4  1  737 1  752 1  1431 1  2578 1  2579 1  768 28  769 28
4  1  771 04  772 02  774 01  775 02  777 .0022  778 .0054  780 20
4  1  781 60  824 01  839 7  854 105  870 .0026  871 .0037  873 10
4  1  874 30  917 01  932 97  947 105  962 03  963 12  964 60
4  1  979 2  994 6  1009 11  1024 7  1039 11  1054 27  1055220
4  1  1070 03  1085 7  1100 1  1115 8  1145 1  1160 1  1175 9
4  1  1190 2  1205 8  1220 1  1235150  1250 1  1265 8  1280 11
4  1  1295300  1310 16  1311 05  1326 45  1341 11  1356100  1371 024
4  1  1386 2  1401 6  1416 105  9999
4  2  9999
4  3  9999
5  1  1462 56  1463 53  1464 20  1465 60  1466 80  1470 22  1471 11
5  1  1472 32  1474 6  1475 6  1477 7  1478 9  1566 2  1461 67
5  1  9999
5  2  9999
5  3  9999
6  1  1627800  1628800  162915000.  1674 4000.  1675 45  167620000.  1721 8000.
6  1  172235000.  1767500  1812250  1857350  9999
6  2  9999
6  3  9999
7  1  1905 9  1906170  1907610  1908 1  1909 1  1910 1  1914 15
7  1  1915 15  1916 13  1917 05  1918 05  1919 05  1920370  1923150
7  1  1924174  1926 04  1927 04  1928 02  1929 02  1930 02  1937 1600.
7  1  1938 5000.  1939 2  1940 98  1941120  1984 9  1985279  1986587
7  1  2029112  2044604  2059 66  2060150  2061181  2104500  2105 5000.
7  1  2106 1000.  2107 4000.  2108650  2279 5492280  -1722281  4542282 26
7  1  2283 20  2284 5000.  228527000.  236113500.  2362 6000.  2363 7300.  2364 08
7  1  2365 15  2366500  2381400  2517500  2428 22  2474 8  2475 33
7  1  2477 32  2478 5  2480 22  2481 46  2483 1500.  2484 1700.  2500240
7  1  2516155  9999
7  2  9999
7  3  9999

```

Fig. 1 - Sample Input Deck

Referring to the list of data elements in Appendix A, we see that in the type 1 data input section the values of 30, 90, and 120 hours have been assigned to flying hours/student-training phases 1(non-FIP), 2, and 3, respectively. Non-FIP applies to only phase 1. Index 7, working days/week, has been given as 5. Flying related hours/flying hour, index 26, has been input 1.5. And .5 is the value assigned to academic and officer training related hours/academic and officer training hours, index 28.

Type 2 inputs in this sample deck are straightforward. Data for five sources have been entered. For example, the value assigned to index 39, the student attrition rate--source 2, phase 1 is .06.

In the type 3 input section, a "1" has been assigned to index 56, indicating that phase 1 is a contracted phase. Phases 2 and 3 are not contracted phases since indices 57 and 58 do not appear. The T array is initially set to zero; hence, any data element not entered retains a zero value.

The only information entered is for base 1 because only one base is being considered in this example. Further, no information is entered for phase 1 since it is a contracted phase.

In the type 4 section, as in the type 3 section, only information about one base and its phases 2 and 3 is entered.

The type 6 inputs are straightforward. For example, family housing units in the first year, base 1, index 1857, have been assigned the value 350.

As stated previously, some of the type 7 data elements are entered in thousands. For example, the input value for index 1905, aircraft first unit cost, phase 1, is 9, whereas its actual value is 9000. Appendix A specifies the data elements that are to be input in thousands.

V. OUTPUT DESCRIPTION

The program output may be in one of two forms. The first, and the one in which the user will most often be interested, consists of 11 tables of information as follows:

- Student loads
- Base capabilities
- UPI program
- Manpower
- Aircraft
- Simulators
- Costs by base (in thousands of dollars)
- Costs (in thousands of dollars) not assignable to base
- Costs by phase (in thousands of dollars)
- Costs (in thousands of dollars), not assignable to phase
- Cost summary (in thousands of dollars)

For this output, both INDC and INDCC on the input deck control card must be set to zero, "0."

The second form of output provides a printout of the values of all program variables including those provided in the 11 tables listed above. This option has been included for those who may be interested in complete information, i.e., in detail beyond that included in the formal output. For this greater output detail, both INDC and INDCC must be set to "1" on the input deck control card.

Since there is no formal output table for facilities, it is possible to have only the program variables associated with facilities printed in addition to the formal tables. To do this, set INDC = 0 and INDCC = 1 on the control card in the input deck.

Figures 2-14 illustrate the formal output tables.

UNDERGRADUATE PILOT TRAINING CAPABILITY SUMMARY

	1970	1971	1972
MAXIMUM LOAD			
MAXIMUM STUDENT LOAD	450.	450.	450.
REQUIRED LOAD			
ACTUAL STUDENT LOAD	393.	393.	393.
SURGE STUDENT LOAD	30.	30.	30.
ACTUAL PLUS SURGE LOAD	423.	423.	423.

Fig.2.—First page of output, showing UPT student load capacity in summary for all bases

UNDERGRADUATE PILOT TRAINING BASE CAPABILITY  
AIR FORCE BASE 1

	1970	1971	1972
PHASE 1			
RUNWAYS			
RUNWAYS AVAILABLE	0.	0.	0.
MINIMUM EFFECTIVE LAUNCH INTERVAL	0.0	0.0	0.0
AIRSPACE			
AIRSPACES AVAILABLE	0.	0.	0.
MINIMUM EFFECTIVE LAUNCH INTERVAL	0.0	0.0	0.0
STUDENT LOAD			
MAXIMUM PHASE LOAD	0.	0.	0.
MAXIMUM COURSE LOAD SUPPORTABLE	0.	0.	0.
PHASE 2			
RUNWAYS			
RUNWAYS AVAILABLE	1.	1.	1.
MINIMUM EFFECTIVE LAUNCH INTERVAL	3.000	3.000	3.000
AIRSPACE			
AIRSPACES AVAILABLE	35.	35.	35.
MINIMUM EFFECTIVE LAUNCH INTERVAL	2.286	2.286	2.286
STUDENT LOAD			
MAXIMUM PHASE LOAD	188.	188.	188.
MAXIMUM COURSE LOAD SUPPORTABLE	498.	498.	498.
PHASE 3			
RUNWAYS			
RUNWAYS AVAILABLE	1.	1.	1.
MINIMUM EFFECTIVE LAUNCH INTERVAL	3.000	3.000	3.000
AIRSPACE			
AIRSPACES AVAILABLE	30.	30.	30.
MINIMUM EFFECTIVE LAUNCH INTERVAL	2.500	2.500	2.500
STUDENT LOAD			
MAXIMUM PHASE LOAD	206.	206.	206.
MAXIMUM COURSE LOAD SUPPORTABLE	450.	450.	450.
COURSE			
MAXIMUM STUDENT LOAD	450.	450.	450.
ACTUAL STUDENT LOAD	393.	393.	393.

Fig. 3—Second page of output showing UPT capacity for AFB 1

UNDERGRADUATE PILOT TRAINING PROGRAM

	1970	1971	1972
<b>COURSE SYLLABUS</b>			
<b>FLYING HOURS</b>			
PHASE 1	30.0	30.0	30.0
PHASE 2	90.0	90.0	90.0
PHASE 3	120.0	120.0	120.0
TOTAL	240.0	240.0	240.0
<b>SIMULATOR HOURS</b>			
PHASE 1	0.0	0.0	0.0
PHASE 2	18.0	18.0	18.0
PHASE 3	24.0	24.0	24.0
TOTAL	42.0	42.0	42.0
<b>ACADEMIC TRAINING HOURS</b>			
PHASE 1	62.0	62.0	62.0
PHASE 2	147.0	147.0	147.0
PHASE 3	90.0	90.0	90.0
TOTAL	299.0	299.0	299.0
<b>OFFICER TRAINING HOURS</b>			
PHASE 1	38.0	38.0	38.0
PHASE 2	47.0	47.0	47.0
PHASE 3	90.0	90.0	90.0
TOTAL	175.0	175.0	175.0
<b>COURSE DURATION</b>			
<b>CALENDAR DAYS</b>			
PHASE 1	53.	53.	53.
PHASE 2	137.	137.	137.
PHASE 3	183.	183.	183.
TOTAL	373.	372.	372.
<b>STUDENTS</b>			
<b>STUDENT ENTRIES</b>			
<b>STUDENT LOAD</b>			
PHASE 1	65.	65.	65.
PHASE 2	149.	149.	149.
PHASE 3	180.	180.	180.
TOTAL	393.	393.	393.
<b>UPT GRADUATES</b>	350.	350.	350.

Fig. 4—Third page of output, showing UPT syllabus, course duration and numbers of students for all bases, by training phase



UNDERGRADUATE PILOT TRAINING MANPOWER

AIR FORCE BASE 1

	1970	1971	1972
<b>OPERATIONS</b>			
STUDENTS	393.	393.	393.
PILOT TRAINING SQUADRON(S)	183.	183.	183.
STUDENT SQUADRON	41.	41.	41.
SIMULATOR BRANCH	29.	29.	29.
<b>MAINTENANCE</b>			
FIELD MAINTENANCE SQUADRON	443.	443.	443.
ORGANIZATIONAL MAINTENANCE SQUADRON	344.	344.	344.
<b>ADMINISTRATIVE</b>			
PILOT TRAINING WING (LESS SIMULATOR BRANCH)	184.	184.	184.
<b>SUPPORT</b>			
AIR BASE GROUP	582.	582.	582.
USAF HOSPITAL (DISPENSARY)	154.	154.	154.
SUPPLY SQUADRON	220.	220.	220.
SUPPORT SQUADRON	9.	9.	9.
FIELD TRAINING SQUADRON	8.	8.	8.
SUPPORT TENANTS	163.	163.	163.
<b>TOTALS</b>			
<b>PERMANENT PARTY BY TYPE</b>			
OFFICERS	330.	330.	330.
AIRMEN	1475.	1475.	1475.
CIVILIANS	554.	554.	554.
TOTAL	2359.	2359.	2359.
<b>PERMANENT PARTY BY PHASE</b>			
PHASE 1	15.	15.	15.
PHASE 2	460.	460.	460.
PHASE 3	891.	891.	891.
NOT ASSIGNABLE BY PHASE	993.	993.	993.
TOTAL	2359.	2359.	2359.
<b>TOTAL MANPOWER</b>			
STUDENTS	393.	393.	393.
PERMANENT PARTY	2359.	2359.	2359.
TOTAL	2752.	2752.	2752.

Fig.5—Fourth page of output showing UPT manpower requirements for AFB 1

UNDERGRADUATE PILOT TRAINING AIRCRAFT

	1970	1971	1972
REQUIREMENT			
PHASE 1	14.9	14.9	14.9
PHASE 2	58.7	58.7	58.7
PHASE 3	73.9	73.9	73.9
INVENTORY (BEGINNING OF YEAR)			
PHASE 1	20.0	19.7	19.5
PHASE 2	60.0	59.6	59.1
PHASE 3	80.0	78.5	77.0
ADDITIONS BY USER (DURING YEAR)			
PHASE 1	0.0	0.0	0.0
PHASE 2	0.0	0.0	0.0
PHASE 3	0.0	0.0	0.0
ADDITIONS BY MODEL (DURING YEAR)			
PHASE 1	0.0	0.0	0.0
PHASE 2	0.0	0.0	0.0
PHASE 3	0.0	0.0	0.0
LOSSES FROM ATTRITION (DURING YEAR)			
PHASE 1	0.3	0.3	0.3
PHASE 2	0.4	0.4	0.4
PHASE 3	1.5	1.5	1.5

Fig.6—Fifth page of output showing UPT aircraft requirements for all bases

UNDERGRADUATE PILOT TRAINING SIMULATORS

AIR FORCE BASE 1

	1970	1971	1972
REQUIREMENT			
PHASE 1	0.0	0.0	0.0
PHASE 2	4.8	4.8	4.8
PHASE 3	5.8	5.8	5.8
INVENTORY (BEGINNING OF YEAR)			
PHASE 1	0.0	0.0	0.0
PHASE 2	7.0	7.0	7.0
PHASE 3	9.0	9.0	9.0
ADDITIONS BY USER (DURING YEAR)			
PHASE 1	0.0	0.0	0.0
PHASE 2	0.0	0.0	0.0
PHASE 3	0.0	0.0	0.0
ADDITIONS BY MODEL (DURING YEAR)			
PHASE 1	0.0	0.0	0.0
PHASE 2	0.0	0.0	0.0
PHASE 3	0.0	0.0	0.0

Fig.7—Sixth page of output showing UPT simulator requirements for AFB 1

UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

AIR FORCE BASE 1

	1970	1971	1972
<b>INVESTMENT</b>			
SIMULATORS	0.	0.	0.
SIMULATOR SPARES	0.	0.	0.
TRAINING EQUIPMENT	0.	0.	0.
BASE SUPPORT EQUIPMENT	0.	0.	0.
<b>FACILITIES</b>			
NEW BASE CONVERSION	0.	0.	0.
RUNWAYS	0.	0.	0.
SIMULATOR BUILDINGS	0.	0.	0.
CLASSROOM BUILDINGS	0.	0.	0.
FLY. TRAIN. BASIC BLDGS.	0.	0.	0.
HOUSING	0.	0.	0.
OTHER	0.	0.	0.
STOCKS	0.	0.	0.
INITIAL TRAINING	0.	0.	0.
INITIAL TRAVEL	0.	0.	0.
<b>OPERATING</b>			
<b>TRAINING A/C MAINTENANCE</b>			
DEPOT MAINTENANCE	1867.	1867.	1867.
BASE MATERIAL	3378.	3378.	3378.
CONTRACTED MAINTENANCE	0.	0.	0.
<b>TRAINING A/C POL</b>			
SUPPORT A/C O AND M	0.	0.	0.
R AND R A/C U AND M	74.	74.	74.

Fig.8—Seventh and eighth pages of output showing UPT costs for AFB 1

	1970	1971	1972
<b>OPERATING (CONTINUED)</b>			
SIMULATOR MAT. AND SERVS.	26.	26.	26.
FACILITIES MAT. AND SERVS.	1379.	1379.	1379.
CONTRACTED FLYING TRAINING	264.	264.	264.
<b>PAY AND ALLOWANCES</b>			
OFFICERS	9760.	9760.	9760.
AIRMEN	8853.	8853.	8853.
CIVILIANS	4043.	4043.	4043.
TRAINING	1017.	1017.	1017.
TRAVEL	681.	681.	681.
SUPPLIES AND SERVICES	1099.	1099.	1099.
<b>COST BY TYPE</b>			
INVESTMENT	0.	0.	0.
OPERATING	35471.	35471.	35471.
TOTAL	35472.	35472.	35472.
<b>COST BY PHASE</b>			
PHASE 1	1315.	1315.	1315.
PHASE 2	8773.	8773.	8773.
PHASE 3	16027.	16027.	16027.
NOT ASSIGNABLE TO PHASE	9356.	9356.	9356.
TOTAL	35472.	35472.	35472.

Fig. 8—Continued

UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)  
NOT ASSIGNABLE TO BASE

	1970	1971	1972
RDT AND E	0.	0.	0.
INVESTMENT			
TRAINING AIRCRAFT	0.	0.	0.
SUPPORT AIRCRAFT	0.	0.	0.
RESCUE AND RECOVERY A/C	0.	0.	0.
TRAINING A/C SPARES	0.	0.	0.
AEROSPACE GROUND EQUIP	0.	0.	0.
OPERATING			
RECURRING MODIFICATIONS	0.	0.	0.
COST BY TYPE			
RDT AND E	0.	0.	0.
INVESTMENT	0.	0.	0.
OPERATING	0.	0.	0.
TOTAL	0.	0.	0.
COST BY PHASE			
PHASE 1	0.	0.	0.
PHASE 2	0.	0.	0.
PHASE 3	0.	0.	0.
NOT ASSIGNABLE TO PHASE	0.	0.	0.
TOTAL	0.	0.	0.

Fig. 9—Ninth page of output, showing UPT costs not allocated to bases

## UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

## PHASE 1

	1970	1971	1972
RDT AND E	0.	0.	0.
INVESTMENT			
TRAINING AIRCRAFT	0.	0.	0.
SIMULATORS	0.	0.	0.
SPARES			
AIRCRAFT	0.	0.	0.
SIMULATOR	0.	0.	0.
AEROSPACE GROUND EQUIP.	0.	0.	0.
TRAINING EQUIPMENT	0.	0.	0.
BASE SUPPORT EQUIPMENT	0.	0.	0.
RUNWAYS	0.	0.	0.
STOCKS	0.	0.	0.
INITIAL TRAINING	0.	0.	0.
INITIAL TRAVEL	0.	0.	0.
OPERATING			
RECURRING MODIFICATIONS	0.	0.	0.
TRAINING A/C MAINTENANCE			
DEPOT MAINTENANCE	0.	0.	0.
BASE MATERIAL	0.	0.	0.
CONTRACTED MAINTENANCE	0.	0.	0.
TRAINING A/C POL	0.	0.	0.
SIMULATOR MAT. AND SERVS.	0.	0.	0.
FACILITIES MAT. AND SERVS.	29.	29.	29.
CONTRACTED FLYING TRAINING	264.	264.	264.
PAY AND ALLOWANCES			
OFFICERS	889.	889.	889.
AIRMEN	46.	46.	46.
CIVILIANS	44.	44.	44.
TRAINING	5.	5.	5.
TRAVEL	1.	1.	1.
SUPPLIES AND SERVICES	37.	37.	37.
COST BY TYPE			
RDT AND E	0.	0.	0.
INVESTMENT	0.	0.	0.
OPERATING	1315.	1315.	1315.
TOTAL	1315.	1315.	1315.

## UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

## PHASE 2

	1970	1971	1972
RDT AND E	0.	0.	0.
INVESTMENT			
TRAINING AIRCRAFT	0.	0.	0.
SIMULATORS	0.	0.	0.
SPARES			
AIRCRAFT	0.	0.	0.
SIMULATOR	0.	0.	0.
AEROSPACE GROUND EQUIP.	0.	0.	0.
TRAINING EQUIPMENT	0.	0.	0.
BASE SUPPORT EQUIPMENT	0.	0.	0.
RUNWAYS	0.	0.	0.
STOCKS	0.	0.	0.
INITIAL TRAINING	0.	0.	0.
INITIAL TRAVEL	0.	0.	0.
OPERATING			
RECURRING MODIFICATIONS	0.	0.	0.
TRAINING A/C MAINTENANCE			
DEPOT MAINTENANCE	315.	315.	315.
BASE MATERIAL	1261.	1261.	1261.
CONTRACTED MAINTENANCE	0.	0.	0.
TRAINING A/C POL	867.	867.	867.
SIMULATOR MAT. AND SERVS.	11.	11.	11.
FACILITIES MAT. AND SERVS.	210.	210.	210.
CONTRACTED FLYING TRAINING	0.	0.	0.
PAY AND ALLOWANCES			
OFFICERS	3321.	3321.	3321.
AIRMEN	1670.	1670.	1670.
CIVILIANS	615.	615.	615.
TRAINING	206.	206.	206.
TRAVEL	35.	35.	35.
SUPPLIES AND SERVICES	262.	262.	262.
COST BY TYPE			
RDT AND E	0.	0.	0.
INVESTMENT	0.	0.	0.
OPERATING	8773.	8773.	8773.
TOTAL	8773.	8773.	8773.

Fig. 11—Eleventh page of output, showing UPT costs for training phase II



## UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

## PHASE 3

	1970	1971	1972
ROT AND E	0.	0.	0.
INVESTMENT			
TRAINING AIRCRAFT	0.	0.	0.
SIMULATORS	0.	0.	0.
SPARES			
AIRCRAFT	0.	0.	0.
SIMULATOR	0.	0.	0.
AEROSPACE GROUND EQUIP.	0.	0.	0.
TRAINING EQUIPMENT	0.	0.	0.
BASE SUPPORT EQUIPMENT	0.	0.	0.
RUNWAYS	0.	0.	0.
STOCKS	0.	0.	0.
INITIAL TRAINING	0.	0.	0.
INITIAL TRAVEL	0.	0.	0.
OPERATING			
RECURRING MODIFICATIONS	0.	0.	0.
TRAINING A/C MAINTENANCE			
DEPUT MAINTENANCE	1552.	1552.	1552.
BASE MATERIAL	2116.	2116.	2116.
CONTRACTED MAINTENANCE	0.	0.	0.
TRAINING A/C PUL	2163.	2163.	2163.
SIMULATOR MAT. AND SERVS.	15.	15.	15.
FACILITIES MAT. AND SERVS.	354.	354.	354.
CONTRACTED FLYING TRAINING	0.	0.	0.
PAY AND ALLOWANCES			
OFFICERS	4046.	4046.	4046.
AIRMEN	3517.	3517.	3517.
CIVILIANS	1354.	1354.	1354.
TRAINING	400.	400.	400.
TRAVEL	67.	67.	67.
SUPPLIES AND SERVICES	443.	443.	443.
COST BY TYPE			
ROT AND E	0.	0.	0.
INVESTMENT	0.	0.	0.
OPERATING	16027.	16027.	16027.
TOTAL	16027.	16027.	16027.

Fig. 12—Twelfth page of output, showing UPT costs for training phase III

UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)  
NOT ASSIGNABLE TO PHASE

	1970	1971	1972
<b>INVESTMENT</b>			
SUPPORT AIRCRAFT	0.	0.	0.
RESCUE AND RECOVERY	0.	0.	0.
BASE SUPPORT EQUIPMENT	0.	0.	0.
<b>FACILITIES</b>			
NEW BASE CONVERSION	0.	0.	0.
SIMULATOR BUILDINGS	0.	0.	0.
CLASSROOM BUILDINGS	0.	0.	0.
FLY. TRAIN. BASIC BLDGS.	0.	0.	0.
HOUSING	0.	0.	0.
OTHER	0.	0.	0.
STOCKS	0.	0.	0.
INITIAL TRAINING	0.	0.	0.
INITIAL TRAVEL	0.	0.	0.
<b>OPERATING</b>			
SUPPORT A/C O AND M	0.	0.	0.
R AND K A/C O AND M	74.	74.	74.
FACILITIES MAT. AND SERVS.	786.	786.	786.
<b>PAY AND ALLOWANCES</b>			
OFFICERS	1503.	1503.	1503.
AIRMEN	3621.	3621.	3621.
CIVILIANS	2029.	2029.	2029.
TRAINING	407.	407.	407.
TRAVEL	578.	578.	578.
SUPPLIES AND SERVICES	357.	357.	357.
<b>COST BY TYPE</b>			
INVESTMENT	0.	0.	0.
OPERATING	9356.	9356.	9356.
TOTAL	9356.	9356.	9356.

Fig. 13--Thirteenth page of output, showing UPT costs not allocated to training phases

UNDERGRADUATE PILOT TRAINING COST SUMMARY  
(IN THOUSANDS OF DOLLARS)

	1970	1971	1972
COST BY TYPE			
RDT AND E	0.	0.	0.
INVESTMENT	0.	0.	0.
OPERATING	35472.	35472.	35472.
TOTAL	35472.	35472.	35472.
COST BY PHASE			
PHASE 1	1315.	1315.	1315.
PHASE 2	8773.	8773.	8773.
PHASE 3	16027.	16027.	16027.
NOT ASSIGNABLE TO PHASE	9356.	9356.	9356.
TOTAL	35472.	35472.	35472.
COST BY BASE			
BASE 1	35472.	35472.	35472.
NOT ASSIGNABLE TO BASE	0.	0.	0.
TOTAL	35472.	35472.	35472.

Fig.14 —Fourteenth page of output, showing UPT costs  
in summary for all bases

A-1

Appendix A

INPUT DATA ELEMENTS

## TYPE 1

1	FLYING HOURS/STUDENT - PHASE 1 (NON FIP)	A1
2	FLYING HOURS/STUDENT - PHASE 2	
3	FLYING HOURS/STUDENT - PHASE 3	
4	FLYING HOURS/WORKING DAY/STUDENT - PHASE 1	A2
5	FLYING HOURS/WORKING DAY/STUDENT - PHASE 2	
6	FLYING HOURS/WORKING DAY/STUDENT - PHASE 3	
7	WORKING DAYS/WEEK	A3
8	HOLIDAYS/YEAR	A4
9	PHASE LENGTH THRUPUT DESIGNATOR (1 = THRUPUT)	A5
10	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 1	A6
11	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 2	
12	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 3	
13	NUMBER OF PHASES OF UPT	A7
14	NUMBER OF ACADEMIC DAYS - PHASE 1	A9
15	NUMBER OF ACADEMIC DAYS - PHASE 2	
16	NUMBER OF ACADEMIC DAYS - PHASE 3	
17	ACADEMIC TRAINING HOURS/STUDENT - PHASE 1	A43
18	ACADEMIC TRAINING HOURS/STUDENT - PHASE 2	
19	ACADEMIC TRAINING HOURS/STUDENT - PHASE 3	
20	OFFICER TRAINING HOURS/STUDENT - PHASE 1	A44
21	OFFICER TRAINING HOURS/STUDENT - PHASE 2	
22	OFFICER TRAINING HOURS/STUDENT - PHASE 3	
23	SIMULATOR HOURS/STUDENT - PHASE 1	A113
24	SIMULATOR HOURS/STUDENT - PHASE 2	
25	SIMULATOR HOURS/STUDENT - PHASE 3	
26	FLYING RELATED HOURS/FLYING HOUR	A220
27	SIMULATOR RELATED HOURS/SIMULATOR HOUR	A221
28	ACAD. AND OFFICER TRAINING RELATED HRS./ACAD. + OFF. TRAINING HRS.	A222
29	MAXIMUM TOTAL HOURS/TRAINING DAY/STUDENT	A223
30	GRADUATE REQUIREMENT	A10

## TYPE 2

31	FIXED ENTRIES - SOURCE 1 (ACADEMY)	A11
32	FIXED ENTRIES - SOURCE 2 (ROTC)	
33	FIXED ENTRIES - SOURCE 3 (RATED)	
34	FIXED ENTRIES - SOURCE 4 (NON-RATED)	
35	FIXED ENTRIES - SOURCE 5 (OTHER)	
36	STUDENT ATTRITION RATE - SOURCE 1, PHASE 1	A12
37	STUDENT ATTRITION RATE - SOURCE 1, PHASE 2	
38	STUDENT ATTRITION RATE - SOURCE 1, PHASE 3	
39	STUDENT ATTRITION RATE - SOURCE 2, PHASE 1	
40	STUDENT ATTRITION RATE - SOURCE 2, PHASE 2	
41	STUDENT ATTRITION RATE - SOURCE 2, PHASE 3	
42	STUDENT ATTRITION RATE - SOURCE 3, PHASE 1	
43	STUDENT ATTRITION RATE - SOURCE 3, PHASE 2	
44	STUDENT ATTRITION RATE - SOURCE 3, PHASE 3	
45	STUDENT ATTRITION RATE - SOURCE 4, PHASE 1	
46	STUDENT ATTRITION RATE - SOURCE 4, PHASE 2	
47	STUDENT ATTRITION RATE - SOURCE 4, PHASE 3	
48	STUDENT ATTRITION RATE - SOURCE 5, PHASE 1	
49	STUDENT ATTRITION RATE - SOURCE 5, PHASE 2	
50	STUDENT ATTRITION RATE - SOURCE 5, PHASE 3	
51	OTS STUDENT ATTRITION - PHASE 1	A13
52	OTS STUDENT ATTRITION - PHASE 2	
53	OTS STUDENT ATTRITION - PHASE 3	

54 NUMBER OF FIXED SOURCES OF STUDENTS  
55 SURGE STUDENT LOAD CAPACITY

A14  
A224

## TYPE 3

56 CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 1  
57 CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 2  
58 CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 3  
59 BEGINNING RUNWAYS - BASE 1, PHASE 1  
60 BEGINNING RUNWAYS - BASE 1, PHASE 2  
61 BEGINNING RUNWAYS - BASE 1, PHASE 3  
62 BEGINNING RUNWAYS - BASE 2, PHASE 1  
63 BEGINNING RUNWAYS - BASE 2, PHASE 2  
64 BEGINNING RUNWAYS - BASE 2, PHASE 3  
65 BEGINNING RUNWAYS - BASE 3, PHASE 1  
66 BEGINNING RUNWAYS - BASE 3, PHASE 2  
67 BEGINNING RUNWAYS - BASE 3, PHASE 3  
68 BEGINNING RUNWAYS - BASE 4, PHASE 1  
69 BEGINNING RUNWAYS - BASE 4, PHASE 2  
70 BEGINNING RUNWAYS - BASE 4, PHASE 3  
71 BEGINNING RUNWAYS - BASE 5, PHASE 1  
72 BEGINNING RUNWAYS - BASE 5, PHASE 2  
73 BEGINNING RUNWAYS - BASE 5, PHASE 3  
74 BEGINNING RUNWAYS - BASE 6, PHASE 1  
75 BEGINNING RUNWAYS - BASE 6, PHASE 2  
76 BEGINNING RUNWAYS - BASE 6, PHASE 3  
77 BEGINNING RUNWAYS - BASE 7, PHASE 1  
78 BEGINNING RUNWAYS - BASE 7, PHASE 2  
79 BEGINNING RUNWAYS - BASE 7, PHASE 3  
80 BEGINNING RUNWAYS - BASE 8, PHASE 1  
81 BEGINNING RUNWAYS - BASE 8, PHASE 2  
82 BEGINNING RUNWAYS - BASE 8, PHASE 3  
83 BEGINNING RUNWAYS - BASE 9, PHASE 1  
84 BEGINNING RUNWAYS - BASE 9, PHASE 2  
85 BEGINNING RUNWAYS - BASE 9, PHASE 3  
86 BEGINNING RUNWAYS - BASE 10, PHASE 1  
87 BEGINNING RUNWAYS - BASE 10, PHASE 2  
88 BEGINNING RUNWAYS - BASE 10, PHASE 3  
89 BEGINNING RUNWAYS - BASE 11, PHASE 1  
90 BEGINNING RUNWAYS - BASE 11, PHASE 2  
91 BEGINNING RUNWAYS - BASE 11, PHASE 3  
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495	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 6	
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563	PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 7	
564	PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 8	
565	PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 9	
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580	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	1,	PHASE	3
581	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	2,	PHASE	1
582	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	2,	PHASE	2
583	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	2,	PHASE	3
584	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	3,	PHASE	1
585	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	3,	PHASE	2
586	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	3,	PHASE	3
587	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	4,	PHASE	1
588	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	4,	PHASE	2
589	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	4,	PHASE	3
590	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	5,	PHASE	1
591	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	,	PHASE	2
592	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	5,	PHASE	3
593	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	6,	PHASE	1
594	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	6,	PHASE	2
595	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	6,	PHASE	3
596	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	7,	PHASE	1
597	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	7,	PHASE	2
598	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	7,	PHASE	3
599	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	8,	PHASE	1
600	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	8,	PHASE	2
601	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	8,	PHASE	3
602	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	9,	PHASE	1
603	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	9,	PHASE	2
604	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	9,	PHASE	3
605	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	10,	PHASE	1
606	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	10,	PHASE	2
607	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	10,	PHASE	3
608	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	11,	PHASE	1
609	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	11,	PHASE	2
610	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	11,	PHASE	3
611	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	12,	PHASE	1
612	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	12,	PHASE	2
613	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	12,	PHASE	3
614	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	13,	PHASE	1
615	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	13,	PHASE	2
616	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	13,	PHASE	3
617	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	14,	PHASE	1
618	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	14,	PHASE	2
619	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	14,	PHASE	3
620	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	15,	PHASE	1
621	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	15,	PHASE	2
622	STUDENT	SQ.	INSTRUCTORS	PERCENT	OFFICERS	-	BASE	15,	PHASE	3
623	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	1,	PHASE	1
624	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	1,	PHASE	2
625	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	1,	PHASE	3
626	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	2,	PHASE	1
627	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	2,	PHASE	2
628	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	2,	PHASE	3
629	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	3,	PHASE	1
630	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	3,	PHASE	2
631	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	3,	PHASE	3
632	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	4,	PHASE	1
633	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	4,	PHASE	2
634	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	4,	PHASE	3
635	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	5,	PHASE	1
636	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	5,	PHASE	2
637	STUDENT	SQ.	INSTRUCTORS	PERCENT	AIRMEN	-	BASE	5,	PHASE	3

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652	STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 3
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658	STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 3
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663	STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 2
664	STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 3
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666	STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 2
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671	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 4
672	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 5
673	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 6
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676	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 9
677	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 10
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680	STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 13
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687	OTHER STUDENT SQUADRON PERSONNEL - BASE 5
688	OTHER STUDENT SQUADRON PERSONNEL - BASE 6
689	OTHER STUDENT SQUADRON PERSONNEL - BASE 7
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691	OTHER STUDENT SQUADRON PERSONNEL - BASE 9
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1028	FIELD MAINT.	PERS.	(OTHER)	- BASE 5		
1029	FIELD MAINT.	PERS.	(OTHER)	- BASE 6		
1030	FIELD MAINT.	PERS.	(OTHER)	- BASE 7		
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1042	ORGAN. MAINT.	PERS.	(OTHER)	- BASE 4		
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1044	ORGAN. MAINT.	PERS.	(OTHER)	- BASE 6		
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1095	SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 11	
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1113	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 14	
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1120	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 6	
1121	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 7	
1122	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 8	
1123	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 9	
1124	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 10	
1125	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 11	
1126	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 12	
1127	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 13	
1128	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 14	
1129	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 15	
1130	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 1	A90
1131	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 2	
1132	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 3	
1133	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 4	
1134	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 5	
1135	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 6	
1136	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 7	
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1142	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 13	
1143	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 14	
1144	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 15	
1145	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 1	A91
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1147	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 3	
1148	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 4	
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1150	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 6	
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1152	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 8	
1153	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 9	
1154	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 10	
1155	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 11	
1156	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 12	
1157	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 13	
1158	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 14	
1159	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 15	
1160	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 1	A93
1161	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 2	
1162	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 3	
1163	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 4	
1164	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 5	
1165	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 6	
1166	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 7	

1167	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	8	
1168	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	9	
1169	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	10	
1170	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	11	
1171	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	12	
1172	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	13	
1173	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	14	
1174	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE	15	
1175	SUPPORT SQ. PERSONNEL REQUIRED - BASE	1	A94
1176	SUPPORT SQ. PERSONNEL REQUIRED - BASE	2	
1177	SUPPORT SQ. PERSONNEL REQUIRED - BASE	3	
1178	SUPPORT SQ. PERSONNEL REQUIRED - BASE	4	
1179	SUPPORT SQ. PERSONNEL REQUIRED - BASE	5	
1180	SUPPORT SQ. PERSONNEL REQUIRED - BASE	6	
1181	SUPPORT SQ. PERSONNEL REQUIRED - BASE	7	
1182	SUPPORT SQ. PERSONNEL REQUIRED - BASE	8	
1183	SUPPORT SQ. PERSONNEL REQUIRED - BASE	9	
1184	SUPPORT SQ. PERSONNEL REQUIRED - BASE	10	
1185	SUPPORT SQ. PERSONNEL REQUIRED - BASE	11	
1186	SUPPORT SQ. PERSONNEL REQUIRED - BASE	12	
1187	SUPPORT SQ. PERSONNEL REQUIRED - BASE	13	
1188	SUPPORT SQ. PERSONNEL REQUIRED - BASE	14	
1189	SUPPORT SQ. PERSONNEL REQUIRED - BASE	15	
1190	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	1	A95
1191	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	2	
1192	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	3	
1193	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	4	
1194	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	5	
1195	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	6	
1196	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	7	
1197	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	8	
1198	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	9	
1199	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	10	
1200	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	11	
1201	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	12	
1202	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	13	
1203	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	14	
1204	SUPPORT SQ. PERS. PERCENT OFFICERS - BASE	15	
1205	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	1	A96
1206	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	2	
1207	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	3	
1208	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	4	
1209	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	5	
1210	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	6	
1211	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	7	
1212	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	8	
1213	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	9	
1214	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	10	
1215	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	11	
1216	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	12	
1217	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	13	
1218	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	14	
1219	SUPPORT SQ. PERS. PERCENT AIRMEN - BASE	15	
1220	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	1	A98
1221	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	2	
1222	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	3	
1223	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	4	
1224	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	5	
1225	SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE	6	

1226	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 7	
1227	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 8	
1228	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 9	
1229	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 10	
1230	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 11	
1231	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 12	
1232	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 13	
1233	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 14	
1234	SUPPORT	SQ. MILITARY PERCENT ASSIGNED - BASE 15	
1235	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 1	A99
1236	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 2	
1237	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 3	
1238	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 4	
1239	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 5	
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1241	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 7	
1242	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 8	
1243	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 9	
1244	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 10	
1245	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 11	
1246	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 12	
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1248	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 14	
1249	SUPPORT	TENANT PERSONNEL REQUIRED - BASE 15	
1250	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 1	A100
1251	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 2	
1252	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 3	
1253	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 4	
1254	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 5	
1255	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 6	
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1257	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 8	
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1263	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 14	
1264	SUPPORT	TENANT PERSONNEL PERCENT OFFICERS - BASE 15	
1265	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 1	A101
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1267	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 3	
1268	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 4	
1269	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 5	
1270	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 6	
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1272	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 8	
1273	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 9	
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1278	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 14	
1279	SUPPORT	TENANT PERSONNEL PERCENT AIRMEN - BASE 15	
1280	SUPPORT	TENANT MILITARY PERCENT ASSIGNED - BASE 1	A103
1281	SUPPORT	TENANT MILITARY PERCENT ASSIGNED - BASE 2	
1282	SUPPORT	TENANT MILITARY PERCENT ASSIGNED - BASE 3	
1283	SUPPORT	TENANT MILITARY PERCENT ASSIGNED - BASE 4	
1284	SUPPORT	TENANT MILITARY PERCENT ASSIGNED - BASE 5	

1285	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	6	
1286	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	7	
1287	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	8	
1288	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	9	
1289	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	10	
1290	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	11	
1291	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	12	
1292	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	13	
1293	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	14	
1294	SUPPORT	TENANT	MILITARY	PERCENT	ASSIGNED	-	BASE	15	
1295	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	1	A202
1296	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	2	
1297	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	3	
1298	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	4	
1299	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	5	
1300	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	6	
1301	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	7	
1302	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	8	
1303	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	9	
1304	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	10	
1305	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	11	
1306	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	12	
1307	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	13	
1308	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	14	
1309	AIR	BASE	GP.	PERSONNEL	CONSTANT	-	BASE	15	
1310	AIR	BASE	GP.	PERSONNEL	OPER., MAINT., ADMIN.				A203
1311	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	1	A204
1312	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	2	
1313	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	3	
1314	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	4	
1315	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	5	
1316	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	6	
1317	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	7	
1318	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	8	
1319	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	9	
1320	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	10	
1321	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	11	
1322	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	12	
1323	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	13	
1324	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	14	
1325	AIR	BASE	GP.	PERSONNEL	PERCENT OFFICERS	-	BASE	15	
1326	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	1	A205
1327	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	2	
1328	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	3	
1329	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	4	
1330	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	5	
1331	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	6	
1332	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	7	
1333	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	8	
1334	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	9	
1335	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	10	
1336	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	11	
1337	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	12	
1338	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	13	
1339	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	14	
1340	AIR	BASE	GP.	PERSONNEL	PERCENT AIRMEN	-	BASE	15	
1341	AIR	BASE	GP.	MILITARY	PERCENT ASSIGNED	-	BASE	1	A207
1342	AIR	BASE	GP.	MILITARY	PERCENT ASSIGNED	-	BASE	2	
1343	AIR	BASE	GP.	MILITARY	PERCENT ASSIGNED	-	BASE	3	

1344	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 4	
1345	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 5	
1346	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 6	
1347	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 7	
1348	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 8	
1349	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 9	
1350	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 10	
1351	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 11	
1352	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 12	
1353	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 13	
1354	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 14	
1355	AIR BASE GP. MILITARY	PERCENT ASSIGNED - BASE 15	
1356	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 1	A208
1357	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 2	
1358	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 3	
1359	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 4	
1360	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 5	
1361	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 6	
1362	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 7	
1363	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 8	
1364	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 9	
1365	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 10	
1366	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 11	
1367	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 12	
1368	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 13	
1369	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 14	
1370	HOSPITAL (DISPENSARY)	PERSONNEL CONSTANT - BASE 15	
1371	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 1	A209
1372	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 2	
1373	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 3	
1374	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 4	
1375	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 5	
1376	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 6	
1377	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 7	
1378	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 8	
1379	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 9	
1380	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 10	
1381	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 11	
1382	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 12	
1383	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 13	
1384	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 14	
1385	HOSPITAL (DISPENSARY)	PERSONNEL/OTHER MILITARY - BASE 15	
1386	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 1	A210
1387	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 2	
1388	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 3	
1389	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 4	
1390	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 5	
1391	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 6	
1392	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 7	
1393	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 8	
1394	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 9	
1395	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 10	
1396	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 11	
1397	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 12	
1398	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 13	
1399	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 14	
1400	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT OFFICERS - BASE 15	
1401	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT AIRMEN - BASE 1	A211
1402	HOSPITAL (DISPENSARY)	PERSONNEL PERCENT AIRMEN - BASE 2	

1403	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 3	
1404	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 4	
1405	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 5	
1406	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 6	
1407	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 7	
1408	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 8	
1409	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 9	
1410	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 10	
1411	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 11	
1412	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 12	
1413	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 13	
1414	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 14	
1415	HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 15	
1416	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 1	A213
1417	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 2	
1418	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 3	
1419	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 4	
1420	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 5	
1421	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 6	
1422	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 7	
1423	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 8	
1424	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 9	
1425	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 10	
1426	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 11	
1427	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 12	
1428	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 13	
1429	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 14	
1430	HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 15	

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1461	AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 1	A104
1462	AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 2	
1463	AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 3	
1464	AIRCRAFT ON HAND FIRST YEAR - PHASE 1	A110
1465	AIRCRAFT ON HAND FIRST YEAR - PHASE 2	
1466	AIRCRAFT ON HAND FIRST YEAR - PHASE 3	
1467	AIRCRAFT PROCURED THROUGHPUT - PHASE 1	A111
1468	AIRCRAFT PROCURED THROUGHPUT - PHASE 2	
1469	AIRCRAFT PROCURED THROUGHPUT - PHASE 3	
1470	AIRCRAFT ATTRITION RATE/100,000 FLYING HOURS - PHASE 1	A112
1471	AIRCRAFT ATTRITION RATE/100,000 FLYING HOURS - PHASE 2	
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1473	SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 1	A114
1474	SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 2	
1475	SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 3	
1476	SIMULATORS ON HAND FIRST YEAR - BASE 1, PHASE 1	A115
1477	SIMULATORS ON HAND FIRST YEAR - BASE 1, PHASE 2	
1478	SIMULATORS ON HAND FIRST YEAR - BASE 1, PHASE 3	
1479	SIMULATORS ON HAND FIRST YEAR - BASE 2, PHASE 1	
1480	SIMULATORS ON HAND FIRST YEAR - BASE 2, PHASE 2	
1481	SIMULATORS ON HAND FIRST YEAR - BASE 2, PHASE 3	
1482	SIMULATORS ON HAND FIRST YEAR - BASE 3, PHASE 1	
1483	SIMULATORS ON HAND FIRST YEAR - BASE 3, PHASE 2	
1484	SIMULATORS ON HAND FIRST YEAR - BASE 3, PHASE 3	
1485	SIMULATORS ON HAND FIRST YEAR - BASE 4, PHASE 1	
1486	SIMULATORS ON HAND FIRST YEAR - BASE 4, PHASE 2	
1487	SIMULATORS ON HAND FIRST YEAR - BASE 4, PHASE 3	
1488	SIMULATORS ON HAND FIRST YEAR - BASE 5, PHASE 1	

1489 SIMULATORS ON HAND FIRST YEAR - BASE 5, PHASE 2  
 1490 SIMULATORS ON HAND FIRST YEAR - BASE 5, PHASE 3  
 1491 SIMULATORS ON HAND FIRST YEAR - BASE 6, PHASE 1  
 1492 SIMULATORS ON HAND FIRST YEAR - BASE 6, PHASE 2  
 1493 SIMULATORS ON HAND FIRST YEAR - BASE 6, PHASE 3  
 1494 SIMULATORS ON HAND FIRST YEAR - BASE 7, PHASE 1  
 1495 SIMULATORS ON HAND FIRST YEAR - BASE 7, PHASE 2  
 1496 SIMULATORS ON HAND FIRST YEAR - BASE 7, PHASE 3  
 1497 SIMULATORS ON HAND FIRST YEAR - BASE 8, PHASE 1  
 1498 SIMULATORS ON HAND FIRST YEAR - BASE 8, PHASE 2  
 1499 SIMULATORS ON HAND FIRST YEAR - BASE 8, PHASE 3  
 1500 SIMULATORS ON HAND FIRST YEAR - BASE 9, PHASE 1  
 1501 SIMULATORS ON HAND FIRST YEAR - BASE 9, PHASE 2  
 1502 SIMULATORS ON HAND FIRST YEAR - BASE 9, PHASE 3  
 1503 SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 1  
 1504 SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 2  
 1505 SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 3  
 1506 SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 1  
 1507 SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 2  
 1508 SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 3  
 1509 SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 1  
 1510 SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 2  
 1511 SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 3  
 1512 SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 1  
 1513 SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 2  
 1514 SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 3  
 1515 SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 1  
 1516 SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 2  
 1517 SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 3  
 1518 SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 1  
 1519 SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 2  
 1520 SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 3  
 1521 SIMULATORS PROCURED THROUGHPUT - BASE 1, PHASE 1  
 1522 SIMULATORS PROCURED THROUGHPUT - BASE 1, PHASE 2  
 1523 SIMULATORS PROCURED THROUGHPUT - BASE 1, PHASE 3  
 1524 SIMULATORS PROCURED THROUGHPUT - BASE 2, PHASE 1  
 1525 SIMULATORS PROCURED THROUGHPUT - BASE 2, PHASE 2  
 1526 SIMULATORS PROCURED THROUGHPUT - BASE 2, PHASE 3  
 1527 SIMULATORS PROCURED THROUGHPUT - BASE 3, PHASE 1  
 1528 SIMULATORS PROCURED THROUGHPUT - BASE 3, PHASE 2  
 1529 SIMULATORS PROCURED THROUGHPUT - BASE 3, PHASE 3  
 1530 SIMULATORS PROCURED THROUGHPUT - BASE 4, PHASE 1  
 1531 SIMULATORS PROCURED THROUGHPUT - BASE 4, PHASE 2  
 1532 SIMULATORS PROCURED THROUGHPUT - BASE 4, PHASE 3  
 1533 SIMULATORS PROCURED THROUGHPUT - BASE 5, PHASE 1  
 1534 SIMULATORS PROCURED THROUGHPUT - BASE 5, PHASE 2  
 1535 SIMULATORS PROCURED THROUGHPUT - BASE 5, PHASE 3  
 1536 SIMULATORS PROCURED THROUGHPUT - BASE 6, PHASE 1  
 1537 SIMULATORS PROCURED THROUGHPUT - BASE 6, PHASE 2  
 1538 SIMULATORS PROCURED THROUGHPUT - BASE 6, PHASE 3  
 1539 SIMULATORS PROCURED THROUGHPUT - BASE 7, PHASE 1  
 1540 SIMULATORS PROCURED THROUGHPUT - BASE 7, PHASE 2  
 1541 SIMULATORS PROCURED THROUGHPUT - BASE 7, PHASE 3  
 1542 SIMULATORS PROCURED THROUGHPUT - BASE 8, PHASE 1  
 1543 SIMULATORS PROCURED THROUGHPUT - BASE 8, PHASE 2  
 1544 SIMULATORS PROCURED THROUGHPUT - BASE 8, PHASE 3  
 1545 SIMULATORS PROCURED THROUGHPUT - BASE 9, PHASE 1  
 1546 SIMULATORS PROCURED THROUGHPUT - BASE 9, PHASE 2  
 1547 SIMULATORS PROCURED THROUGHPUT - BASE 9, PHASE 3

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1548	SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 1	
1549	SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 2	
1550	SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 3	
1551	SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 1	
1552	SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 2	
1553	SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 3	
1554	SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 1	
1555	SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 2	
1556	SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 3	
1557	SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 1	
1558	SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 2	
1559	SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 3	
1560	SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 1	
1561	SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 2	
1562	SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 3	
1563	SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 1	
1564	SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 2	
1565	SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 3	
1566	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 1	A225
1567	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 2	
1568	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 3	
1569	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 4	
1570	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 5	
1571	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 6	
1572	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 7	
1573	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 8	
1574	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 9	
1575	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 10	
1576	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 11	
1577	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 12	
1578	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 13	
1579	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 14	
1580	RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 15	
1581	SUPPORT A/C IN FIRST YEAR - BASE 1	A201
1582	SUPPORT A/C IN FIRST YEAR - BASE 2	
1583	SUPPORT A/C IN FIRST YEAR - BASE 3	
1584	SUPPORT A/C IN FIRST YEAR - BASE 4	
1585	SUPPORT A/C IN FIRST YEAR - BASE 5	
1586	SUPPORT A/C IN FIRST YEAR - BASE 6	
1587	SUPPORT A/C IN FIRST YEAR - BASE 7	
1588	SUPPORT A/C IN FIRST YEAR - BASE 8	
1589	SUPPORT A/C IN FIRST YEAR - BASE 9	
1590	SUPPORT A/C IN FIRST YEAR - BASE 10	
1591	SUPPORT A/C IN FIRST YEAR - BASE 11	
1592	SUPPORT A/C IN FIRST YEAR - BASE 12	
1593	SUPPORT A/C IN FIRST YEAR - BASE 13	
1594	SUPPORT A/C IN FIRST YEAR - BASE 14	
1595	SUPPORT A/C IN FIRST YEAR - BASE 15	
1596	RESCUE AND RECOVERY A/C PROCURED - BASE 1	A146
1597	RESCUE AND RECOVERY A/C PROCURED - BASE 2	
1598	RESCUE AND RECOVERY A/C PROCURED - BASE 3	
1599	RESCUE AND RECOVERY A/C PROCURED - BASE 4	
1600	RESCUE AND RECOVERY A/C PROCURED - BASE 5	
1601	RESCUE AND RECOVERY A/C PROCURED - BASE 6	
1602	RESCUE AND RECOVERY A/C PROCURED - BASE 7	
1603	RESCUE AND RECOVERY A/C PROCURED - BASE 8	
1604	RESCUE AND RECOVERY A/C PROCURED - BASE 9	
1605	RESCUE AND RECOVERY A/C PROCURED - BASE 10	
1606	RESCUE AND RECOVERY A/C PROCURED - BASE 11	

1607	RESCUE AND RECOVERY A/C PROCURED - BASE 12	
1608	RESCUE AND RECOVERY A/C PROCURED - BASE 13	
1609	RESCUE AND RECOVERY A/C PROCURED - BASE 14	
1610	RESCUE AND RECOVERY A/C PROCURED - BASE 15	
1611	SUPPORT A/C PROCURED - BASE 1	A147
1612	SUPPORT A/C PROCURED - BASE 2	
1613	SUPPORT A/C PROCURED - BASE 3	
1614	SUPPORT A/C PROCURED - BASE 4	
1615	SUPPORT A/C PROCURED - BASE 5	
1616	SUPPORT A/C PROCURED - BASE 6	
1617	SUPPORT A/C PROCURED - BASE 7	
1618	SUPPORT A/C PROCURED - BASE 8	
1619	SUPPORT A/C PROCURED - BASE 9	
1620	SUPPORT A/C PROCURED - BASE 10	
1621	SUPPORT A/C PROCURED - BASE 11	
1622	SUPPORT A/C PROCURED - BASE 12	
1623	SUPPORT A/C PROCURED - BASE 13	
1624	SUPPORT A/C PROCURED - BASE 14	
1625	SUPPORT A/C PROCURED - BASE 15	
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1932	NEW A/C INDICATOR - PHASE 2	
1933	NEW A/C INDICATOR - PHASE 3	
1934	NEW SIMULATOR INDICATOR - PHASE 1 (1, IF NEW, 0, IF NOT)	A251
1935	NEW SIMULATOR INDICATOR - PHASE 2	
1936	NEW SIMULATOR INDICATOR - PHASE 3	

## TYPE 6

1626	SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 1	A117
1627	SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 2	
1628	SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 3	
1629	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 1	A118
1630	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 2	
1631	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 3	
1632	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 4	
1633	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 5	
1635	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 7	
1634	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 6	
1636	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 8	
1637	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 9	
1638	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 10	
1639	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 11	
1640	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 12	
1641	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 13	
1642	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 14	
1643	SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 15	
1644	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 1	A119
1645	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 2	
1646	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 3	
1647	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 4	
1648	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 5	
1649	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 6	
1650	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 7	
1651	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 8	
1652	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 9	
1653	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 10	
1654	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 11	
1655	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 12	
1656	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 13	

1657	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 14	
1658	SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 15	
1659	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 1	A120
1660	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 2	
1661	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 3	
1662	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 4	
1663	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 5	
1664	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 6	
1665	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 7	
1666	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 8	
1667	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 9	
1668	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 10	
1669	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 11	
1670	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 12	
1671	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 13	
1672	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 14	
1673	SQ. FT. OF SIMULATOR AREA REPLACED - BASE 15	
1674	MINIMUM SQ. FT. OF SIMULATOR AREA ADDED	A121
1675	SQ. FT. OF CLASSROOMS REQUIRED/STUDENT	A122
1676	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 1	A123
1677	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 2	
1679	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 4	
1678	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 3	
1680	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 5	
1681	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 6	
1682	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 7	
1683	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 8	
1684	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 9	
1685	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 10	
1686	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 11	
1687	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 12	
1688	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 13	
1689	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 14	
1690	SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 15	
1691	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 1	A124
1692	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 2	
1693	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 3	
1694	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 4	
1695	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 5	
1696	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 6	
1697	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 7	
1698	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 8	
1699	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 9	
1700	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 10	
1701	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 11	
1702	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 12	
1703	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 13	
1704	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 14	
1705	SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 15	
1706	SQ. FT. OF CLASSROOMS REPLACED - BASE 1	A125
1707	SQ. FT. OF CLASSROOMS REPLACED - BASE 2	
1708	SQ. FT. OF CLASSROOMS REPLACED - BASE 3	
1709	SQ. FT. OF CLASSROOMS REPLACED - BASE 4	
1710	SQ. FT. OF CLASSROOMS REPLACED - BASE 5	
1711	SQ. FT. OF CLASSROOMS REPLACED - BASE 6	
1712	SQ. FT. OF CLASSROOMS REPLACED - BASE 7	
1713	SQ. FT. OF CLASSROOMS REPLACED - BASE 8	
1714	SQ. FT. OF CLASSROOMS REPLACED - BASE 9	
1715	SQ. FT. OF CLASSROOMS REPLACED - BASE 10	

1716	SQ. FT. OF CLASSROOMS REPLACED - BASE 11	
1717	SQ. FT. OF CLASSROOMS REPLACED - BASE 12	
1718	SQ. FT. OF CLASSROOMS REPLACED - BASE 13	
1719	SQ. FT. OF CLASSROOMS REPLACED - BASE 14	
1720	SQ. FT. OF CLASSROOMS REPLACED - BASE 15	
1721	MINIMUM SQ. FT. OF CLASSROOMS ADDED	A126
1722	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 1	A127
1723	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 2	
1724	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 3	
1725	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 4	
1726	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 5	
1727	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 6	
1728	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 7	
1729	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 8	
1730	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 9	
1731	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 10	
1732	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 11	
1733	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 12	
1734	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 13	
1735	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 14	
1736	SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 15	
1737	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 1	A128
1738	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 2	
1739	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 3	
1740	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 4	
1741	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 5	
1742	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 6	
1743	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 7	
1744	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 8	
1745	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 9	
1746	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 10	
1747	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 11	
1748	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 12	
1749	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 13	
1750	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 14	
1751	SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 15	
1752	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 1	A129
1753	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 2	
1754	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 3	
1755	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 4	
1756	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 5	
1757	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 6	
1758	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 7	
1759	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 8	
1760	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 9	
1761	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 10	
1762	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 11	
1763	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 12	
1764	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 13	
1765	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 14	
1766	SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 15	
1767	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 1	A130
1768	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 2	
1769	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 3	
1770	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 4	
1771	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 5	
1772	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 6	
1773	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 7	
1774	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 8	

1775	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	9	
1776	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	10	
1777	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	11	
1778	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	12	
1779	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	13	
1780	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	14	
1781	AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE	15	
1782	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	1	A131
1783	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	2	
1784	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	3	
1785	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	4	
1786	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	5	
1787	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	6	
1788	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	7	
1789	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	8	
1790	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	9	
1791	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	10	
1792	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	11	
1793	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	12	
1794	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	13	
1795	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	14	
1796	AIRMEN DORMITORY UNITS ADDED THRUPT - BASE	15	
1797	AIRMEN DORMITORY UNITS REPLACED - BASE	1	A132
1798	AIRMEN DORMITORY UNITS REPLACED - BASE	2	
1799	AIRMEN DORMITORY UNITS REPLACED - BASE	3	
1800	AIRMEN DORMITORY UNITS REPLACED - BASE	4	
1801	AIRMEN DORMITORY UNITS REPLACED - BASE	5	
1802	AIRMEN DORMITORY UNITS REPLACED - BASE	6	
1803	AIRMEN DORMITORY UNITS REPLACED - BASE	7	
1804	AIRMEN DORMITORY UNITS REPLACED - BASE	8	
1805	AIRMEN DORMITORY UNITS REPLACED - BASE	9	
1806	AIRMEN DORMITORY UNITS REPLACED - BASE	10	
1807	AIRMEN DORMITORY UNITS REPLACED - BASE	11	
1808	AIRMEN DORMITORY UNITS REPLACED - BASE	12	
1809	AIRMEN DORMITORY UNITS REPLACED - BASE	13	
1810	AIRMEN DORMITORY UNITS REPLACED - BASE	14	
1811	AIRMEN DORMITORY UNITS REPLACED - BASE	15	
1812	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	1	A133
1813	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	2	
1814	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	3	
1815	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	4	
1816	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	5	
1817	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	6	
1818	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	7	
1819	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	8	
1820	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	9	
1821	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	10	
1822	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	11	
1823	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	12	
1824	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	13	
1825	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	14	
1826	BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE	15	
1827	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	1	A134
1828	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	2	
1829	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	3	
1830	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	4	
1831	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	5	
1832	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	6	
1833	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	7	

1834	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	8	
1835	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	9	
1836	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	10	
1837	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	11	
1838	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	12	
1839	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	13	
1840	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	14	
1841	BACHELOR OFFICER QUARTERS ADDED THRUPT - BASE	15	
1842	BACHELOR OFFICERS QUARTERS REPLACED - BASE	1	A135
1843	BACHELOR OFFICERS QUARTERS REPLACED - BASE	2	
1844	BACHELOR OFFICERS QUARTERS REPLACED - BASE	3	
1845	BACHELOR OFFICERS QUARTERS REPLACED - BASE	4	
1846	BACHELOR OFFICERS QUARTERS REPLACED - BASE	5	
1847	BACHELOR OFFICERS QUARTERS REPLACED - BASE	6	
1848	BACHELOR OFFICERS QUARTERS REPLACED - BASE	7	
1850	BACHELOR OFFICERS QUARTERS REPLACED - BASE	9	
1849	BACHELOR OFFICERS QUARTERS REPLACED - BASE	8	
1851	BACHELOR OFFICERS QUARTERS REPLACED - BASE	10	
1852	BACHELOR OFFICERS QUARTERS REPLACED - BASE	11	
1853	BACHELOR OFFICERS QUARTERS REPLACED - BASE	12	
1854	BACHELOR OFFICERS QUARTERS REPLACED - BASE	13	
1855	BACHELOR OFFICERS QUARTERS REPLACED - BASE	14	
1856	BACHELOR OFFICERS QUARTERS REPLACED - BASE	15	
1857	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	1	A136
1858	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	2	
1859	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	3	
1860	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	4	
1861	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	5	
1862	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	6	
1863	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	7	
1864	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	8	
1865	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	9	
1866	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	10	
1867	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	11	
1868	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	12	
1869	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	13	
1870	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	14	
1871	FAMILY HOUSING UNITS IN FIRST YEAR - BASE	15	
1872	FAMILY HOUSING UNITS ADDED THRUPT - BASE	1	A137
1873	FAMILY HOUSING UNITS ADDED THRUPT - BASE	2	
1874	FAMILY HOUSING UNITS ADDED THRUPT - BASE	3	
1875	FAMILY HOUSING UNITS ADDED THRUPT - BASE	4	
1876	FAMILY HOUSING UNITS ADDED THRUPT - BASE	5	
1877	FAMILY HOUSING UNITS ADDED THRUPT - BASE	6	
1878	FAMILY HOUSING UNITS ADDED THRUPT - BASE	7	
1879	FAMILY HOUSING UNITS ADDED THRUPT - BASE	8	
1880	FAMILY HOUSING UNITS ADDED THRUPT - BASE	9	
1881	FAMILY HOUSING UNITS ADDED THRUPT - BASE	10	
1882	FAMILY HOUSING UNITS ADDED THRUPT - BASE	11	
1883	FAMILY HOUSING UNITS ADDED THRUPT - BASE	12	
1884	FAMILY HOUSING UNITS ADDED THRUPT - BASE	13	
1885	FAMILY HOUSING UNITS ADDED THRUPT - BASE	14	
1886	FAMILY HOUSING UNITS ADDED THRUPT - BASE	15	
1887	FAMILY HOUSING UNITS REPLACED - BASE	1	A138
1888	FAMILY HOUSING UNITS REPLACED - BASE	2	
1889	FAMILY HOUSING UNITS REPLACED - BASE	3	
1890	FAMILY HOUSING UNITS REPLACED - BASE	4	
1891	FAMILY HOUSING UNITS REPLACED - BASE	5	
1892	FAMILY HOUSING UNITS REPLACED - BASE	6	

1893 FAMILY HOUSING UNITS REPLACED - BASE 7  
 1894 FAMILY HOUSING UNITS REPLACED - BASE 8  
 1895 FAMILY HOUSING UNITS REPLACED - BASE 9  
 1896 FAMILY HOUSING UNITS REPLACED - BASE 10  
 1897 FAMILY HOUSING UNITS REPLACED - BASE 11  
 1898 FAMILY HOUSING UNITS REPLACED - BASE 12  
 1899 FAMILY HOUSING UNITS REPLACED - BASE 13  
 1900 FAMILY HOUSING UNITS REPLACED - BASE 14  
 1901 FAMILY HOUSING UNITS REPLACED - BASE 15

## TYPE 7

1902 ROT AND E COST THRUPT - PHASE 1 (IN MILLIONS) A139  
 1903 ROT AND E COST THRUPT - PHASE 2 (IN MILLIONS)  
 1904 ROT AND E COST THRUPT - PHASE 3 (IN MILLIONS)  
 1905 AIRCRAFT FIRST UNIT COST - PHASE 1 (IN THOUSANDS) A140  
 1906 AIRCRAFT FIRST UNIT COST - PHASE 2 (IN THOUSANDS)  
 1907 AIRCRAFT FIRST UNIT COST - PHASE 3 (IN THOUSANDS)  
 1908 AIRCRAFT COST CURVE SLOPE - PHASE 1 A141  
 1909 AIRCRAFT COST CURVE SLOPE - PHASE 2  
 1910 AIRCRAFT COST CURVE SLOPE - PHASE 3  
 1911 AIRCRAFT LAST BUY QUANTITY - PHASE 1 A142  
 1912 AIRCRAFT LAST BUY QUANTITY - PHASE 2  
 1913 AIRCRAFT LAST BUY QUANTITY - PHASE 3  
 1914 A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 1 A143  
 1915 A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 2  
 1916 A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 3  
 1917 A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 1 A144  
 1918 A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 2  
 1919 A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 3  
 1920 INVESTMENT COST PER RESCUE AND RECOVERY A/C (IN THOUSANDS) A145  
 1921 INVESTMENT COST PER SUPPORT A/C (IN THOUSANDS) A148  
 1922 INVESTMENT COST PER SIMULATOR - PHASE 1 (IN THOUSANDS) A149  
 1923 INVESTMENT COST PER SIMULATOR - PHASE 2 (IN THOUSANDS)  
 1924 INVESTMENT COST PER SIMULATOR - PHASE 3 (IN THOUSANDS)  
 1925 SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 1 A152  
 1926 SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 2  
 1927 SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 3  
 1928 RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 1 A230  
 1929 RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 2  
 1930 RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 3  
 1937 BASE SUPPORT EQUIPMENT COST/MILITARY INCREASE A153  
 1938 TRAINING EQUIPMENT COST/STUDENT INCREASE A154  
 1939 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 1, PHASE 1 A155  
 1940 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 1, PHASE 2  
 1941 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 1, PHASE 3  
 1942 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 2, PHASE 1  
 1943 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 2, PHASE 2  
 1944 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 2, PHASE 3  
 1945 OFFICERS IN BEGINNING OF FIRST YEAR - BASE 3, PHASE 1  
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2289	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 4		
2290	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 5		
2291	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 6		
2292	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 7		
2293	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 8		
2294	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 9		
2295	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 10		
2296	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 11		
2297	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 12		
2298	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 13		
2299	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 14		
2300	OTHER FACILITIES INVESTMENT COST THRUPT - BASE 15		
2301	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 1	(IN 1000'S)	A179
2302	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 2		
2303	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 3		
2304	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 4		
2305	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 5		
2306	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 6		

2307	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 7	
2308	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 8	
2309	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 9	
2310	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 10	
2311	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 11	
2312	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 12	
2313	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 13	
2314	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 14	
2315	FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPT - BASE 15	
2316	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 1 (IN THOUSANDS)	A180
2317	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 2	
2318	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 3	
2319	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 4	
2320	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 5	
2321	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 6	
2322	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 7	
2323	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 8	
2324	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 9	
2325	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 10	
2326	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 11	
2327	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 12	
2328	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 13	
2329	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 14	
2330	AIRMEN DORMITORY INVESTMENT COST THRUPT - BASE 15	
2331	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 1 (IN 1000'S)	A181
2332	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 2	
2333	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 3	
2334	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 4	
2335	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 5	
2336	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 6	
2337	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 7	
2338	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 8	
2339	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 9	
2340	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 10	
2341	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 11	
2342	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 12	
2343	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 13	
2344	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 14	
2345	BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPT - BASE 15	
2346	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 1 (IN THOUSANDS)	A182
2347	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 2	
2348	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 3	
2349	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 4	
2350	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 5	
2351	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 6	
2352	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 7	
2353	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 8	
2354	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 9	
2355	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 10	
2356	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 11	
2357	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 12	
2358	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 13	
2359	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 14	
2360	FAMILY HOUSING INVESTMENT COST THRUPT - BASE 15	
2361	PAY AND ALLOWANCE COST PER OFFICER	A183
2362	PAY AND ALLOWANCE COST PER AIRMEN	A184
2363	PAY COST PER CIVILIAN	A185
2364	TURNOVER RATE PER OFFICER	A186
2365	TURNOVER RATE PER AIRMEN	A187

2366	FACIL. 0 AND M COST CONSTANT - BASE 1	(IN THOUSANDS)	A188
2367	FACIL. 0 AND M COST CONSTANT - BASE 2	↓	
2368	FACIL. 0 AND M COST CONSTANT - BASE 3		
2369	FACIL. 0 AND M COST CONSTANT - BASE 4		
2370	FACIL. 0 AND M COST CONSTANT - BASE 5		
2371	FACIL. 0 AND M COST CONSTANT - BASE 6		
2372	FACIL. 0 AND M COST CONSTANT - BASE 7		
2373	FACIL. 0 AND M COST CONSTANT - BASE 8		
2374	FACIL. 0 AND M COST CONSTANT - BASE 9		
2375	FACIL. 0 AND M COST CONSTANT - BASE 10		
2376	FACIL. 0 AND M COST CONSTANT - BASE 11		
2377	FACIL. 0 AND M COST CONSTANT - BASE 12		
2378	FACIL. 0 AND M COST CONSTANT - BASE 13		
2379	FACIL. 0 AND M COST CONSTANT - BASE 14		
2380	FACIL. 0 AND M COST CONSTANT - BASE 15		
2381	FACIL. 0 AND M COST PER MILITARY MAN		
2382	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 1, PHASE 1		A190
2383	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 1, PHASE 2		
2384	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 1, PHASE 3		
2385	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 2, PHASE 1		
2386	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 2, PHASE 2		
2387	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 2, PHASE 3		
2388	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 3, PHASE 1		
2389	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 3, PHASE 2		
2390	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 3, PHASE 3		
2391	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 4, PHASE 1		
2392	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 4, PHASE 2		
2393	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 4, PHASE 3		
2394	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 5, PHASE 1		
2395	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 5, PHASE 2		
2396	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 5, PHASE 3		
2397	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 6, PHASE 1		
2398	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 6, PHASE 2		
2399	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 6, PHASE 3		
2400	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 7, PHASE 1		
2401	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 7, PHASE 2		
2402	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 7, PHASE 3		
2403	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 8, PHASE 1		
2404	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 8, PHASE 2		
2405	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 8, PHASE 3		
2406	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 9, PHASE 1		
2407	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 9, PHASE 2		
2408	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 9, PHASE 3		
2409	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 1		
2410	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 2		
2411	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 3		
2412	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 1		
2413	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 2		
2414	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 3		
2415	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 1		
2416	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 2		
2417	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 3		
2418	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 1		
2419	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 2		
2420	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 3		
2421	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 1		
2422	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 2		
2423	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 3		
2424	CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 1		

2425 CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 2  
 2426 CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 3  
 2427  
 2517 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 1  
 2518 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 2  
 2519 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 3  
 2520 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 4  
 2521 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 5  
 2522 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 6  
 2523 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 7  
 2524 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 8  
 2525 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 9  
 2526 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 10  
 2527 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 11  
 2528 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 12  
 2529 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 13  
 2530 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 14  
 2531 SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 15  
 2428 CONTRACT TRAINING COST/FLYING HOUR - BASE 1, PHASE 1  
 2429 CONTRACT TRAINING COST/FLYING HOUR - BASE 1, PHASE 2  
 2430 CONTRACT TRAINING COST/FLYING HOUR - BASE 1, PHASE 3  
 2431 CONTRACT TRAINING COST/FLYING HOUR - BASE 2, PHASE 1  
 2432 CONTRACT TRAINING COST/FLYING HOUR - BASE 2, PHASE 2  
 2433 CONTRACT TRAINING COST/FLYING HOUR - BASE 2, PHASE 3  
 2434 CONTRACT TRAINING COST/FLYING HOUR - BASE 3, PHASE 1  
 2435 CONTRACT TRAINING COST/FLYING HOUR - BASE 3, PHASE 2  
 2436 CONTRACT TRAINING COST/FLYING HOUR - BASE 3, PHASE 3  
 2437 CONTRACT TRAINING COST/FLYING HOUR - BASE 4, PHASE 1  
 2438 CONTRACT TRAINING COST/FLYING HOUR - BASE 4, PHASE 2  
 2439 CONTRACT TRAINING COST/FLYING HOUR - BASE 4, PHASE 3  
 2440 CONTRACT TRAINING COST/FLYING HOUR - BASE 5, PHASE 1  
 2441 CONTRACT TRAINING COST/FLYING HOUR - BASE 5, PHASE 2  
 2442 CONTRACT TRAINING COST/FLYING HOUR - BASE 5, PHASE 3  
 2443 CONTRACT TRAINING COST/FLYING HOUR - BASE 6, PHASE 1  
 2444 CONTRACT TRAINING COST/FLYING HOUR - BASE 6, PHASE 2  
 2445 CONTRACT TRAINING COST/FLYING HOUR - BASE 6, PHASE 3  
 2446 CONTRACT TRAINING COST/FLYING HOUR - BASE 7, PHASE 1  
 2447 CONTRACT TRAINING COST/FLYING HOUR - BASE 7, PHASE 2  
 2448 CONTRACT TRAINING COST/FLYING HOUR - BASE 7, PHASE 3  
 2449 CONTRACT TRAINING COST/FLYING HOUR - BASE 8, PHASE 1  
 2450 CONTRACT TRAINING COST/FLYING HOUR - BASE 8, PHASE 2  
 2451 CONTRACT TRAINING COST/FLYING HOUR - BASE 8, PHASE 3  
 2452 CONTRACT TRAINING COST/FLYING HOUR - BASE 9, PHASE 1  
 2453 CONTRACT TRAINING COST/FLYING HOUR - BASE 9, PHASE 2  
 2454 CONTRACT TRAINING COST/FLYING HOUR - BASE 9, PHASE 3  
 2455 CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 1  
 2456 CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 2  
 2457 CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 3  
 2458 CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 1  
 2459 CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 2  
 2460 CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 3  
 2461 CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 1  
 2462 CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 2  
 2463 CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 3  
 2464 CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 1  
 2465 CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 2  
 2466 CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 3  
 2467 CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 1  
 2468 CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 2

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2469	CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 3	
2470	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 1	
2471	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 2	
2472	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 3	
2473	DEPOT MAINT. COST/FLYING HOUR - PHASE 1	A193
2474	DEPOT MAINT. COST/FLYING HOUR - PHASE 2	
2475	DEPOT MAINT. COST/FLYING HOUR - PHASE 3	
2476	BASE MATERIAL COST/FLYING HOUR - PHASE 1	A194
2477	BASE MATERIAL COST/FLYING HOUR - PHASE 2	
2478	BASE MATERIAL COST/FLYING HOUR - PHASE 3	
2479	POL COST/FLYING HOUR - PHASE 1	A195
2480	POL COST/FLYING HOUR - PHASE 2	
2481	POL COST/FLYING HOUR - PHASE 3	
2482	SIMULATOR O AND M COST/SIMULATOR - PHASE 1	A196
2483	SIMULATOR O AND M COST/SIMULATOR - PHASE 2	
2484	SIMULATOR O AND M COST/SIMULATOR - PHASE 3	
2485	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 1	A197
2486	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 2	
2487	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 3	
2488	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 4	
2489	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 5	
2490	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 6	
2491	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 7	
2492	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 8	
2493	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 9	
2494	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 10	
2495	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 11	
2496	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 12	
2497	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 13	
2498	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 14	
2499	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 15	
2500	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 1	A226
2501	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 2	
2502	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 3	
2503	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 4	
2504	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 5	
2505	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 6	
2506	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 7	
2507	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 8	
2508	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 9	
2509	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 10	
2510	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 11	
2511	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 12	
2512	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 13	
2513	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 14	
2514	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 15	
2515	O AND M COST/FLYING HOUR - SUPPORT AIRCRAFT	A227
2516	O AND M COST/FLYING HOUR - RESCUE AND RECOVERY AIRCRAFT	A228

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Appendix B

SYMBOLIC LISTING OF  
FORTRAN IV COMPUTER PROGRAM

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COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
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COMMON/ONEA/A9(20,3)
COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,1),A147(20,15)
COMMON/FIVEA/NA250(20,3),NA251(20,3)
COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
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C
C VARIABLES USED IN SUBROUTINES CUMCL,ATTRL,QTS,AVATTR,EVTGRD,
C STLOAD,CAP
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1 DIMENSION NYEAR(20),P1(20,3),P2(20),P4(20,3),P5(20),P7(22),
2 P10(20),P12(20,3),P13(2),P14(2),P15(20,3),P16(20,3),
3 P17(22,3),P18(20,3),P18A(20,15,3),P19(20,15,3),
4 P20(20,15,3),P24(20,15,3),P25(22),P27(20,15,3),
5 P28(20,15),P29(20),P31(20,15,3),P33(20,15,3),
6 NP30(20),P36(20,15,3),NPP35(20,15),P103(20,15),
7 P193(20,3),P205(20,3),P208(20),P209(20,3),P235(20),
EQUIVALENCE (P7(1),P25(1))
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C
C VARIABLES USED IN SUBROUTINES OPMANP,MAMANP,FSMANP,VSMANP,ACCUM
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1 DIMENSION P39(3),P38(3),P46(3),P61(3),P50(20,15,3),P51(20,15,3),
2 P52(20,15,3),P53(20,15),P54(20,15),P55(20,15),
3 P60(20,15,3),P90(20,3),P176(3),P210(20,15),P211(20,15),
4 P212(20,15),P213(20,15),P214(20,15),P215(20,15),
5 P216(20,15),P217(20,15),P218(20,15),P219(20,15),
6 P220(20,15),P221(20,15),P223(20,15),P224(20,15),
7 P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
EQUIVALENCE (P209(1,1),P90(1,1),P285(1,1)),(P18A(1,1,1),P50(1,1,1))
1 ),(P19(1,1,1),P51(1,1,1)),(P20(1,1,1),P52(1,1,1)),
2 (P24(1,1,1),P227(1,1,1),P231(1,1,1),P257(1,1,1)),
3 (P27(1,1,1),P60(1,1,1)),(P28(1,1),P53(1,1)),
4 (P205(1),P39(1))
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C
C VARIABLES USED IN SUBROUTINE EQUIP
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1 DIMENSION P91(20,3),P92(20,3),P94(20,15,3),P95(20,15,3),P230(20,3)
2 DIMENSION P96(20,3),P93(20,15,3)
3 DIMENSION P231(20,15,3),P234(20,15),P300(20,3),P167(20,15)
4 EQUIVALENCE (P15(1,1),P91(1,1),P278(1,1)),(P18(1,1),P92(1,1)),
(P31(1,1,1),P94(1,1,1)),(A18(1,1,1),
1 P95(1,1,1)),(P12(1,1),P230(1,1),P287(1,1)),
2 (P210(1,1),P234(1,1),P265(1,1)),(P4(1,1),
3 P300(1,1),P286(1,1)),(P211(1,1),P167(1,1))
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C
C VARIABLES USED IN SUBROUTINE FACIL
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1 DIMENSION P99(20,15),P102(20,15),P98(20,15),P101(20,15),
2 P104(20,15),P105(20,15),P106(20,15),P107(20,15),
3 P232(20,15),P233(20,15)
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EQUIVALENCE (P212(1,1),P99(1,1),P244(1,1)),(P213(1,1),
1      P102(1,1),P245(1,1)),(P214(1,1),P98(1,1),
2      P243(1,1)),(P215(1,1),P101(1,1),P252(1,1)),
3      (P216(1,1),P104(1,1),P246(1,1)),(P217(1,1),
4      P105(1,1),P247(1,1)),(P218(1,1),P106(1,1),P248(1,1)),
5      (P219(1,1),P107(1,1),P249(1,1)),(P220(1,1),
6      P232(1,1),P250(1,1)),(P221(1,1),P233(1,1),
7      P251(1,1))

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VARIABLES USED IN SUBROUTINE INVCE

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DIMENSION P108(20,3),P109(20,3),P110(20,3),P115(20),P116(20),
1      P340(20,3),PP236(20,15),PP237(20,15),P257(20,15,3),
2      P279(20,3),P280(20,3),P168(20
EQUIVALENCE (T(1),P108(1)),(T(51),P109(1)),(T(121),P110(1)),
1      (T(181),P340(1)),(T(241),P115(1)),(T(261),P116(1)),
2      (P223(1,1),PP236(1,1)),(P224(1,1),PP237(1,1)),
3      (A(1,1),P279(1,1)),(A13(1,1),P280(1,1))

```

VARIABLES USED IN SUBROUTINE INVCM.

```

DIMENSION PP238(20,15),PP239(20,15),P241(20,15),P242(20,15),
1      P243(20,15),P259(20,15),P281(20,3),P282(20,3),
2      P284(20,3),P285(20,3),P286(20,3),PP300(20),P307(20),
3      P308(20),P309(20),P344(15,3),P345(15,3),P346(15)
EQUIVALENCE (P225(1,1),PP238(1,1)),(P226(1,1),PP239(1,1)),
1      (P229(1,1),P241(1,1)),
2      (A147(1,1),P259(1,1)),(P16(1,1),P281(1,1)),
3      (A2(1,1),P282(1,1)),(A44(1,1),P284(1,1)),
4      (A224(1),PP300(1))

```

VARIABLES USED IN SUBROUTINE INVCF.

```

DIMENSION P135(20,15),P136(20,15),P137(20,15),P240(20,15),
1      P283(20,3),P301(20),P302(20),P303(20)
EQUIVALENCE (T(281),P135(1)),(T(581),P136(1)),(T(881),P137(1)),
1      (P228(1,1),P240(1,1)),(A43(1,1),P283(1,1)),
2      (A10(1),P301(1)),(P2(1),P302(1))

```

VARIABLES USED IN SUBROUTINE ORERC

```

DIMENSION P260(20,15),P261(20,15),P244(20,15),P245(20,15),
1      P246(20,15),P247(20,15),P248(20,15),P249(20,15),
2      P250(20,15),P251(20,15),P252(20,15),P253(20,15),
3      P254(20,15),P255(20,15),P256(20,15),P287(20,3),
4      P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
5      P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
6      P298(20,3),P299(20,3),P304(20),P305(20),P306(20),
7      P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
8      P316(20),P317(20),P318(20)
EQUIVALENCE (T(1181),P260(1)),(T(1481),P261(1)),(A146(1,1),
1      P253(1,1)),(P36(1),P254(1)),(A116(1),P255(1)),
2      (A12(1),P256(1)),(A113(1,1),P288(1,1)),
3      (P1(1,1),P289(1,1)),(T(1781),P290(1)),
4      (T(1841),P291(1))

```

VARIABLES USED IN SUBROUTINE COSTB

B-4

```
DIMENSION P258(20,15),P263(20,15),P264(20,15),P265(20,15),
1 P266(20),P267(20),P268(20),P269(20),P270(20,3),
2 P271(20),P272(20),P273(20),P274(20),P341(20)
EQUIVALENCE (P55(1,1),P258(1,1)),
1 (P208(1),P266(1)), (P5(1),P267(1)),(P235(1),P268(1)),
2 (P236(1),P269(1)),
3 (P238(1),P271(1)),(P237(1),P272(1)),(P239(1),P273(1)),
4 (P10(1),P274(1)),(P29(1),P341(1))
```

VARIABLES USED IN SUBROUTINE COSTP

```
DIMENSION P276(20,3),P277(20,3),P278(20,3),P319(20),P320(20),
1 P321(20),P332(20),P333(20),P334(20),P335(20)
EQUIVALENCE (P193(1,1),P277(1,1))
```

READ DESCRIPTIVE TEXT THAT WILL BE PRINTED AT BEGINNING OF RUN

CALL RTEXT

INITIALIZE INPUT ARRAY

```
7 DO 1 I = 1,2625
1 T(I) = 0.
```

READ CONTROL CARD

```
READ(5,2) NYRS,NBYR,BASES,INDC,INDCC
2 FORMAT(2(I2,3X),F2.0,2X,I1,2X,I1)
```

SET UP NYEAR ARRAY TO BE USED IN OUTPUT SUBROUTINES

```
N = 1900 + NBYR - 1
DO 9 I = 1,NYRS
9 NYEAR(I) = N + I
```

COMPUTE CUMULATIVE COURSE LENGTH P18 FOR EACH YEAR

CALL CUMCL(NYRS,P1,P2,P4,P5,P16,P18,P236,P237,P238,P239,INDC)

COMPUTE ATTRITIONLESS ENTRIES P7 INTO UPT FOR ALL YEARS

CALL ATTRLS(NYRS,P7,P18,INDC)

COMPUTE ENTRIES P10 INTO UPT FROM OTS FOR ALL YEARS

CALL OTS(NYRS,P7,P10,P235,INDC)

COMPUTE AVERAGE ATTRITION P12 FOR ALL SOURCES FOR EACH YEAR AND PHASE

CALL AVATTR(NYRS,P10,P12,P193,INDC)

COMPUTE ENTRY-GRADUATE AVERAGE P15 BY YEAR OF UPT GRADUATION FOR EACH YEAR AND PHASE

CALL ENTGRD(NYRS,P12,P13,P14,P15,P18,INDC)

```

C COMPUTE STUDENT LOAD P25 PER YEAR
C
C   CALL STLOAD(NYRS,P15,P16,P17,P18,P25,P208,P209,INDC)
C
C COMPUTE CAPABILITY AND BASE LOADING
C
C   CALL CAP(NYRS,BASES,P1,P17,P25,P18A,P19,P20,P24,P27,P28,P29,
1     NP30,P31,P36,P103,P33,P208,P209,NPP35,P205,INDC)
C
C   CALL PRINT1(NYRS,NYEAR,P29,P25,      P208)
C
C   CALL PRINT2(NYRS,NYEAR,NP30(NYRS),P18A,P20,P19,P31,P24,P27,P28,
1     P103)
C
C   CALL PRINT3(NYRS,NYEAR,P4,P5,P235,P236,P237,P238,P239,P17,P25)
C
C
C SET TO ZERO THE ACCUMULATING VARIABLES USED IN OPMANP,MAMANP,
C   FSMANP,VSMANP,ACCUM,AND PRINT4.
C
C   CALL ZERO(P50,P51,P52,P53,P54,P55,P210,P211,P212,P213,P214,P215,
1     P216,P217,P218,P219,P220,P221,P223,P224,P225,P226,
2     P227,P228,P229,P60,P90)
C
C   NY = 1
C
C READ T(500) - T(1460) FOR YEAR NY.
C
C 10 CALL INPUT(NY,4)
C
C   NB = 1
C
C COMPUTE OPERATIONS MANPOWER FOR YEAR NY, BASE NB.
C
C 15 CALL OPMANP(NY,NB,P2,P16,P33,P39,P38,P46,      P50,P51,P52,P53,
1     P54,P55,      P210,P211,P212,      P1,INDC)
C
C COMPUTE MAINTENANCE AND ADMINISTRATIVE MANPOWER FOR YEAR NY, BASE NB
C
C   CALL MAMANP(NY,NB,P1,P2,P33,P39,P16,P38,P46,P50,P51,P52,P53,P54,
1     P55,P73,P60,P90,P176,P213,P214,P215,P61,P65,P69,
2     P177,INDC)
C
C COMPUTE FIXED SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
C   CALL FSMANP(NY,NB,P216,P217,P218,P219,P53,P54,P55,INDC)
C
C COMPUTE VARIABLE SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
C   CALL VSMANP(NY,NB,P33,P50,P51,P52,P53,P54,P55,P176,P177,P220,P221,
1     P16,P38,P46,P73,P61,P65,P69,INDC)
C
C ACCUMULATE MANPOWER PERSONNEL FOR YEAR NY, BASE NB.
C
C   CALL ACCUM(NY,NB,P50,P51,P52,P53,P54,P55,P103,P223,P224,P225,P226,
1     P227,P228,P229,INDC)
C
C   IF(NB.GE.NP30(NY)) GO TO 20
C   NB = NB + 1

```

```

GO TO 15
C
20 IF (NY.GE.NYRS) GO TO 25
   NY = NY + 1
   GO TO 10
C
25 CALL PRINT4(NYRS,NYEAR,NP30(NYRS),P103,P210,P211,P212,P213,
  1      P214,P215,P216,P217,P218,P219,P220,P221,P223,P224,
  2      P225,P226,P227,P228,P229)
C
C COMPUTE EQUIPMENT FOR EACH YEAR, BASE, AND PHASE
C
  CALL EQUIP(NYRS,P1,P33,P90,P91,P92,P94,P95,P230,P231,P234,P300,
  1      P167,NP30,NPP35,P96,P93,INDC)
C
  CALL PRINT5(NYRS,NYEAR,P230,P92,P300,P96)
C
  CALL PRINT6(NYRS,NYEAR,P93,P231,P95,NP30(NYRS))
C
COMPUTE FACILITIES FOR EACH YEAR AND BASE
C
  CALL FACIL(NYRS,NP30,NPP35,P94,P95,P103,P99,P102,P98,P101,P104,
  1      P105,P106,P107,P232,P233,INDCC)
C
  NY = 1
C
READ T(1902) - T(2531) FOR YEAR NY
C
30 CALL INPUT(NY,7)
C
COMPUTE INVESTMENT COST FOR EQUIPMENT FOR YEAR NY
C
  CALL INVCE(NY,P91,P92,P95,P108,P109,P110,P115,P116,P340,PP236,
  1      PP237,P257,P279,P280,P168,NP30,INDC)
C
COMPUTE INVESTMENT COST FOR MANPOWER FOR YEAR NY.
C
  CALL INVCM(NY,NP30,NPP35,P33,P50,P51,P53,P54,PP238,PP239,P241,
  1      P242,P243,P257,P259,P281,P282,P284,P285,P286,PP300,P307,
  2      P308,P309,P344,P345,P346,INDC)
C
COMPUTE INVESTMENT COST FOR FACILITIES FOR YEAR NY.
C
  CALL INVCF(NY,NP30,NPP35,P36,P99,P102,P135,P136,P137,P240,P257,
  1      P259,P283,P301,P302,P303,INDC)
C
SET TO ZERO THE ACCUMULATING VARIABLES USED IN SUBROUTIN OPERC.
C
  CALL ZERO1(NY,P244,P245,P246,P247,P248,P249,P250,P251,P252,
  1      P253,P254,P255,P256,P287,P288,P289,P290,P291,P292,
  2      P293,P294,P295,P296,P297,P298,P299,P304,P305,P306,
  4      P310,P311,P312,P313,P314,P315,P316,P317,P318)
C
COMPUTE OPERATING COST FOR YEAR NY.
  CALL OPERC(NY,NP30,P10,P33,P50,P51,P52,P53,P54,P55,P60,P94,P95,

```

```

1      P193,P167,P234,P260,P261,P244,P245,P246,P247,P248,P249,
2      P250,P251,P252,P253,P254,P255,P256,P257,P259,P287,P288,
3      P289,P290,P291,P292,P293,P294,P295,P296,P297,P298,P299,
4      P304,P305,P306,P310,P311,P312,P313,P314,P315,P316,P317,
5      P318,P103,P25,INDC)

```

C  
C  
C

ACCUMULATE COSTS BY BASE

```

CALL COSTB(NY,NP30,P108,P109,P110,P115,P116,P340,P135,P136,P137,
1      PP236,PP237,PP238,PP239,P240,P241,P242,P243,P244,P245,P246,
2      P247,P248,P249,P250,P251,P252,P253,P254,P255,P256,P260,
3      P261,P259,P258,P263,P264,P265,P266,P267,P268,P269,P270,
4      P271,P272,P273,P274,P341,P257,INDC)

```

C  
C  
C

ACCUMULATE COSTS BY PHASE

```

CALL COSTP(NY,      P108,P109,P110,P115,P116,P279,P280,P281,P282,
1      P283,P284,P285,P286,P287,P288,P289,P290,P291,P292,P293,
2      P294,P295,P296,P297,P298,P299,PP300,P301,P302,P303,
3      P304,P305,P306,P307,P308,P309,P310,P311,P312,P313,
4      P314,P315,P316,P317,P318,P340, P276,P277,P278,P332,
5      P333,P334,P335,P319,P320,P321,INDC)

```

C  
C  
C  
C  
C

```

IF(NY.GE.NYRS) GO TO 50
NY = NY + 1
GO TO 30

```

C

```

50 CALL PRINT7(NYRS,NYEAR,P135,P136,P137,PP236,PP237,PP238,PP239,
1      P240,P241,P242,P243,P244,P245,P246,P247,P248,P249,
2      P250,P251,P252,P253,P254,P255,P256,P257,P258,P259,
3      P260,P261,P263,P264,P265,NP30(NYRS))

```

C

```

CALL PRINT8(NYRS,NYEAR,P115,P116,P266,P267,P269,P269,P270,P271,
1      P273,P274,P341)

```

C

```

CALL PRINT9(NYRS,NYEAR,P108,P109,P110,P276,P277,P278,P279,P280,
1      P281,P282,P283,P284,P285,P286,P287,P288,P289,P290,
2      P291,P292,P293,P294,P295,P296,P297,P298,P299,P340)

```

C

```

CALL PRNT10(NYRS,NYEAR,P115,P116,PP300,P301,P302,P303,P304,P305,
1      P306,P307,P308,P309,P310,P311,P312,P313,P314,P315,
2      P316,P317,P318,P319,P320,P321)

```

C

```

CALL PRNT11(NYRS,NYEAR,P258,P273,P278,P321,P332,P333,P334,P335,
1      NP30(NYRS))

```

C  
C  
C

RETURN  
END



```

SUBROUTINE RTEXT
DIMENSION TEXT(18)

```

```

C
C READ AND PRINT THE DESCRIPTIVE TEXT AT THE BEGINNING OF THE RUN
C
6 WRITE(6,1)
1 FORMAT(1H1,/)
  LINES = 3
2 READ(5,3) (TEXT(I), I = 1,18), 10
3 FORMAT(18A4,7X,11)
  WRITE(6,4) (TEXT(I), I = 1,18)
4 FORMAT(1H ,25X,18A4)
  IF(IC.NE.9) GO TO 5
  WRITE(6,1)
  RETURN
C
5 LINES = LINES + 1
  IF(LINES.GE.55) GO TO 6
  GO TO 2
C
END

```

```

SUBROUTINE INPUT(NY,NT)

```

```

C
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
COMMON/ONEA/A9(20,3)
COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
COMMON/FIVEA/NA250(20,3), NA251(20,3)
COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
DIMENSION INDEX(7), VALUE(7)
C
C READ AN INPUT CARD, CHECK ITS TYPE AND YEAR
C
5 READ(5,10) NTYPE,NYR,(INDEX(I),VALUE(I),I=1,7)
10 FORMAT(2(I2,2X),7(I4,F6.3))
  IF(NTYPE.NE.NT) GO TO 100
  IF(NYR.NE.NY) GO TO 102
  DO 20 I = 1,7
  IF(INDEX(I).EQ.9999) GO TO 30
  T(INDEX(I)) = VALUE(I)
20 CONTINUE
  GO TO 5
C
30 GO TO (50,60,70,80,90,200,300), NT
C
C SET TYPE 1 INPUTS
C
50 NA7(NY) = T(13)
  A10(NY) = T(30)
  DO 55 I = 1,3

```

```

A1(NY, I) = T(I)
A2(NY, I) = T(I+3)
A9(NY, I) = T(I+13)
A43(NY, I) = T(I+16)
A44(NY, I) = T(I+19)
55 A113(NY, I) = T(I+22)
RETURN

```

C  
C  
C  
C

SET TYPE 2 INPUTS

```

60 NA14(NY) = T(54)
A224(NY) = T(55)
DO 62 I = 1,5
DO 61 J = 1,3
IJ = 3*(I-1) + J
61 A12(NY, I, J) = T(IJ+35)
62 A11(NY, I) = T(I+30)
DO 65 J = 1,3
65 A13(NY, J) = T(J + 50)
RETURN

```

C  
C  
C  
C

SET TYPE 3 INPUTS

```

70 DO 75 I = 1,15
DO 75 J = 1,3
IJ = 3*(I-1) + J
A18(NY, I, J) = T(IJ+103)
75 A17(I, J) = T(IJ+58)
DO 76 I = 1,3
76 NA15(NY, I) = T(I + 55)
RETURN

```

C  
C  
C

SET TYPE 4 INPUTS

80 RETURN

C  
C  
C

SET TYPE 5 INPUTS

```

90 DO 95 I = 1,15
DO 94 J = 1,3
IJ = 3*(I-1) + J
94 A116(NY, I, J) = T(IJ + 1520)
A146(NY, I) = T(I + 1595)
95 A147(NY, I) = T(I + 1610)
DO 96 I = 1,3
NA250(NY, I) = T(I+1930)
NA251(NY, I) = T(I+1933)
96 A111(NY, I) = T(I + 1466)
RETURN

```

C  
C  
C

SET TYPE 6 INPUTS

```

200 DO 210 I = 1,15
A119(2, I) = T(I+1643)
A120(2, I) = T(I+1658)
A124(2, I) = T(I+1690)
210 A125(2, I) = T(I+1705)

```

```

RETURN
C
C SET TYPE 7 INPUTS
C
300 DO 325 I = 1,3
    A139(NY,I) = T(I + 1901)*100000.
325 CONTINUE
    DO 350 I = 1,15
        A178(NY,I) = T(I + 2285)*1000.
        A179(NY,I) = T(I + 2300)*1000.
350 CONTINUE
    RETURN
C
C
100 WRITE(6,101) NT
101 FORMAT(28H1CARD READ SHOULD BE A TYPE ,11,
1 21H CARD, BUT IT IS NOT.)
    CALL EXIT
C
102 WRITE(6,103) NT
103 FORMAT(8H1A TYPE ,11,52H CARD DOES NOT CONTAIN THE CORRECT CONSECU
1TIVE YEAR.)
    CALL EXIT
C
    END

SUBROUTINE CUMCL(NYRS,P1,P2,P4,P5,P16,P18,P236,P237,P238,P239,IC)
C
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
COMMON/ONEA/A9(20,3)
DIMENSION P1(20,3),P2(20),P4(20,3),P5(20),P16(20,3),P18(20,3),
1 P236(20),P237(20),P238(20),P239(20)
C
C COMPUTE CUMULATIVE COURSE LENGTH P18 FOR EACH YEAR
C
C READ T(1) - T(30) FOR YEAR NY
C
    NY = 1
    3 CALL INPUT(NY,1)
C
    DO 4 J = 1,3
        P1(NY,J) = 0.
        P4(NY,J) = 0.
        P16(NY,J) = 0.
    4 P18(NY,J) = 0.
C
    5 NP = NA7(NY)
        P236(NY) = 0.
        P237(NY) = 0.
        P238(NY) = 0.
        P239(NY) = 0.
C
C WORKING DAYS/YEAR NY

```

```

C
P2(NY) = 365. - T(8) - (7. - T(7))*(365./7.)
P5(NY) = 0.
IF(IC.FQ.0) GO TO 10
WRITE(6,1001) NY, P2(NY)
1001 FORMAT(3HONY,2X,I2/3HOP2,2X,F6.2)
C
C CHECK PHASE LENGTH THRUPUT DESIGNATOR
C
10 P206 = 0.
P207 = 0.
IF(T(9).NE.1.) GO TO 25
C
C THRUPUT HAS BEEN DESIGNATED.
C CALENDAR DAYS/PHASE NP FOR FLYING IN YEAR NY.
C
P3 = T(NP + 9)
C
C WORKING DAYS/PHASE NP IN YEAR NY
C
P1(NY,NP) = P3/(365./P2(NY))
C
C CALENDAR DAYS/PHASE NP IN YEAR NY
C
15 P4(NY,NP) = P3 + A9(NY,NP) * 7./T(7)
C
C PHASE NP LENGTH IN YEARS
C
P16(NY,NP) = P4(NY,NP)/365.
C
C CALENDAR DAYS/COURSE IN YEAR NY
C
P5(NY) = P5(NY) + P4(NY,NP)
C
C CUMULATIVE COURSE LENGTH IN YEARS FOR YEAR NY STARTING
C WITH LAST PHASE IN YEAR NY.
C
P18(NY,NP) = P5(NY)/365.
C
C ACCUMULATE TOTAL FLYING HOURS FOR YEAR NY.
C
P236(NY) = P236(NY) + A1(NY,NP)
P237(NY) = P237(NY) + A113(NY,NP)
P238(NY) = P238(NY) + A43(NY,NP)
P239(NY) = P239(NY) + A44(NY,NP)
C
IF(IC.EQ.0) GO TO 99
WRITE(6,1002) NP,P1(NY,NP),P3,P4(NY,NP),P5(NY),P16(NY,NP),
1 P18(NY,NP),P236(NY),P206,P207
1002 FORMAT(3HONP,2X,I1,2X,2HP1,2X,F6.2,2X,2HP3,2X,F6.2,2X,2HP4,2X,
1 F6.2,2X,2HP5,2X,F6.2,2X,3HP16,2X,F4.2,2X,3HP18,2X,F5.2,2X,
2 4HP236,2X,F7.2,2X,4HP206,2X,F7.2,2X,4HP207,2X,F7.2)
99 IF(NP.LE.1) GO TO 20
NP = NP - 1
GO TO 10
20 IF(NY.GE.NYRS) RETURN
NY = NY + 1
GO TO 3

```

```

C THRUPTUT HAS NOT BEEN DESIGNATED.
C WORKING DAYS/PHASE NP CONSTRAINED BY FLYING IN YEAR NY.
C
C 25 P206 = A1(NY,NP)/A2(NY,NP)
C
C WORKING DAYS/PHASE NP CONSTRAINED BY ALL TRAINING IN YEAR NY.
C
C P207 = A1(NY,NP)*(1. + T(26)) + A113(NY,NP)*(1. + T(27))
C P207 = (P207 + (A43(NY,NP) + A44(NY,NP))*(1.+T(28)))/T(29)
C IF(P206.GE.P207) GO TO 26
C
C WORKING DAYS/PHASE NP IN YEAR NY
C
C P1(NY,NP) = P207
C (-0 TO 27
C 26 P1(NY,NP) = P206
C
C CALENDAR DAYS/PHASE NP FOR FLYING IN YEAR NY
C
C 27 P3 = (365./P2(NY))*P1(NY,NP)
C GO TO 15
C
C END

```

```

SUBROUTINE OTS(NYRS,P7,P10,P235,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
DIMENSION P7(22),P10(20),P235(20)
C
C COMPUTE ENTRIES P10 INTO UPT FROM OTS FOR ALL YEARS
C
C NY = 1
C
C READ T(31) - T(55) FOR YEAR NY
C
C 71 CALL INPUT(NY,2)
C IF(IC.EQ.0) GO TO 10
C WRITE(6,1004) NY
1004 FORMAT(3HONY,2X,I2)
C 10 P190 = 0.
C P235(NY) = 0.
C NS = 1
C
C 72 P189 = 1.
C NP = 1
C
C PERCENTAGE OF STUDENTS FROM SOURCE NS NOT ATTRIBTED IN YEAR NY.
C
C 73 P189 = P189*(1. - A12(NY,NS,NP))
C IF(NP.GE.NA7(NY)) GO TO 75
C NP = NP + 1
C GO TO 73
C

```

```

C STUDENT COURSE ATTRITION RATE IN YEAR NY FOR ENTRIES
C FROM SOURCE NS.
C
C 75 P9 = 1. - P189
C IF(NS.EQ.2) P189A = P189
C
C FIXED ATTRITIONLESS ENTRIES IN YEAR NY.
C
C P190 = P190 + A11(NY,NS)*(1. - P9)
C IF(IC.EQ.0) GO TO 11
C WRITE(6,1005) NS, P189, P9
1005 FORMAT(3HONS,2X,I1,2X,4HP189,2X,F4.3,2X,2HP9,2X,F4.3)
C 11 IF(NS.GE.NA14(NY)) GO TO 80
C NS = NS + 1
C GO TO 72
C
C
C OTS ATTRITIONLESS ENTRIES IN YEAR NY
C
C 80 P8 = P7(NY, - P190)
C P191 = 1.
C NP = 1
C
C ACCUMULATE ONE MINUS COURSE ATTRITION RATE FOR OTS IN YEAR NY
C
C 81 P191 = P191*(1. - A13(NY,NP))
C IF(NP.GE.NA7(NY)) GO TO 85
C NP = NP + 1
C GO TO 81
C
C
C OTS STUDENT COURSE ATTRITION RATE IN YEAR NY
C
C 85 P11 = 1. - P191
C
C OTS ENTRIES IN YEAR NY
C
C P10(NY) = P8/(1. - P11)
C IF(P10(NY).LT.0.) GO TO 90
C 86 DO 87 I = 1,NS
C 87 P235(NY) = P235(NY) + A11(NY,I)
C P235(NY) = P235(NY) + P10(NY)
C IF(IC.EQ.0) GO TO 12
C WRITE(6,1006) P190,P8,P191,P11,P10(NY),P235(NY),A11(NY,2)
1006 FORMAT(5HOP190,2X,F8.2,2X,2HP8,2X,F8.2,2X,4HP191,2X,F5.3,2X,
C 1 3H011,2X,F4.3,2X,3HP10,2X,F8.2,2X,4HP235,2X,F8.2,2X,3HA11,2X,
C 2 F8.2)
C 12 IF(NY.GE.NYRS) RETURN
C NY = NY + 1
C GO TO 71
C
C
C OTS ENTRIES NUMBER LESS THAN ZERO. REDUCE THE NUMBER OF ENTRIES
C FROM ROTC.
C
C 90 A11(NY,2) = A11(NY,2) + P10(NY)*(1. - P11)/P189A
C IF(A11(NY,2).GE.0.) GO TO 95
C
C REDUCED ENTRIES FROM ROTC NUMBER LESS THAN ZERO.
C EXECUTION WILL BE TERMINATED.
C
C WRITE(6,91) NY

```

```

91 FORMAT(48HENTRIES FROM OTS NUMBER LESS THAN ZERO IN YEAR ,I2/
1      54HOREduced ENTRIES FROM ROTC ALSO NUMBER LESS THAN ZERO./
2      39HOPROGRAM EXECUTION HAS BEEN TERMINATED.)
      CALL EXIT
C
95 P10(NY) = 0.
      GO TO 86
C
      END

      SUBROUTINE AVATTR(NYRS,P10,P12,P193,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      DIMENSION P10(20),P12(20,3),P193(20,3)
C
C COMPUTE AVERAGE ATTRITION P12 FOR ALL SOURCES FOR EACH YEAR AND PHASE
C
      NY = 1
101 DO 10 J = 1,3
      P12(NY,J) = 0.
10 P193(NY,J) = 0.
C
      NP = 1
      P192 = 0.
      NS = 1
C
C ATTRITTED STUDENTS FOR ALL FIXED SOURCES IN PHASE 1, YEAR NY.
C
105 P192 = P192 + A12(NY,NS,NP)*A11(NY,NS)
C
C ENTRIES FOR ALL FIXED SOURCES IN PHASE 1, YEAR NY.
C
      P193(NY,NP) = P193(NY,NP) + A11(NY,NS)
      IF(NS.GE.NA14(NY)) GO TO 110
      NS = NS + 1
      GO TO 105
C
C AVERAGE ATTRITION FOR ALL SOURCES IN PHASE 1 BY YEAR OF ENTRY.
C
110 P12(NY,NP) = (P192 + A13(NY,NP)*P10(NY))/(P193(NY,NP) + P10(NY))
      IF(IC.EQ.0) GO TO 115
      WRITE(6,1007) NP,P192,P193(NY,NP), P12(NY,NP)
1007 FORMAT(3HONP,2X,11,2X,4HP192,2X,F7.2,2X,4HP193,2X,F7.2,2X,3HP12,
1 2X,F4.3)
115 IF(NP.LI.NA7(NY)) GO TO 120
      IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 101
120 NP = NP + 1
      P192 = 0.
      NS = 1
21 NQ = 1
      P194 = 1.
      P195 = 1.

```

```

C
C PHASE NP ENTRIES PERCENT OF PHASE 1 ENTRIES - FIXED SOURCES
C
125 P194 = P194*(1. - A12(NY,NS,NQ))
C
C PHASE NP ENTRIES PERCENT OF PHASE 1 ENTRIES - OTS
C
  P195 = P195*(1. - A13(NY,NQ))
  IF(NQ.GE.(NP - 1)) GO TO 130
  NQ = NQ + 1
  GO TO 125
C
C ATTRITTED STUDENTS FOR ALL FIXED SOURCES IN PHASE NP, YEAR NY.
C
130 P192 = P192 + A12(NY,NS,NP)*A11(NY,NS)*P194
C
C ENTRIES FOR ALL FIXED SOURCES IN PHASE NP, YEAR NY.
C
  P193(NY,NP) = P193(NY,NP) + A11(NY,NS)*P194
  IF(NS.GE.NA14(NY)) GO TO 140
  NS = NS + 1
  GO TO 121
C
C AVERAGE ATTRITION FOR ALL SOURCES IN PHASE NP BY YEAR OF ENTRY NY
C
140 P12(NY,NP) = (P192 + A13(NY,NP)*P10(NY)*P195)
  P12(NY,NP) = P12(NY,NP)/(P193(NY,NP) + P10(NY)*P195)
  IF(IC.EQ.0) GO TO 115
  WRITE(6,1008) NP,P194,P195,P192,P193(NY,NP),P12(NY,NP)
1008 FORMAT(3HONP,2X,11,2X,4HP194,2X,F5.3,2X,4HP195,2X,F5.3,2X,
1 4HP192,2X,F7.2,2X,4HP193,2X,F7.2,2X,3HP12,2X,F4.3)
  GO TO 115
C
  END

  SUBROUTINE ENTGRD(NYRS,P12,P13,P14,P15,P18,IC)
  COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
  DIMENSION P13(2),P14(2),P15(20,3),P18(20,3),P12(20,3)
C
C COMPUTE ENTRY-GRADUATE AVERAGE P15 BY YEAR OF UPT GRADUATION FOR EACH
C YEAR AND PHASE
C
  NY = 1
151 DO 12 J = 1,3
  12 P15(NY,J) = 0.
  NP = NA7(NY)
  P6 = P18(NY,1)
C
C PHASE NP GRADUATES BY YEAR NY OF UPT GRADUATION
C
  P14(1) = A10(NY)

```



152 IF(NY.GE.3) GO TO 160  
IF(NY.GE.2) GO TO 155

C  
C YEAR NY IS 1.  
C ATTRITION RATE AVERAGED OVER YEARS ENTERING FOR PHASE NP,  
C GRADUATING YEAR NY

$P13(1) = P12(NY, NP)$

158 IF(NP.GE.NA7(NY)) GO TO 153

C  
C PHASE GRADUATES BY YEAR OF UPT GRADUATION

$P14(1) = P14(2)/(1. - P13(2))$

C  
C ENTRY-GRADUATE AVERAGE BY YEAR OF UPT GRADUATION

153  $P15(NY, NP) = (P14(1) + (P14(1)/(1. - P13(1))))/2.$

IF(IC.EQ.0) GO TO 10

WRITE(6,1009) NY, NP, P14(1), P15(NY, NP)

1009 FORMAT(3HONY, 2X, I2, 2X, 2HNP, 2X, I1, 2X, 3HP14, 2X, F8.2, 2X, 3HP15, 2X,  
1 F8.2)

10 IF(NP.LE.1) GO TO 154

NP = NP - 1

P13(2) = P13(1)

P14(2) = P14(1)

GO TO 152

154 IF(NY.GE.NYRS) RETURN

NY = NY + 1

GO TO 151

C  
C YEAR NY IS 2.

155 IF(P6.GE.1.) GO TO 156

C  
C COURSE LENGTH IN YEAR 2 IS LESS THAN 1 YEAR  
C ATTRITION RATE AVERAGED OVER YEARS ENTERING FOR PHASE NP,  
C GRADUATING YEAR 2.

157  $P13(1) = P6 * P12(NY - 1, NP) + (1. - P6) * P12(NY, NP)$

GO TO 158

C  
C COURSE LENGTH IN YEAR 2 IS GREATER THAN OR EQUAL TO ONE YEAR

156  $P13(1) = P12(NY - 1, NP)$

GO TO 158

C  
C YEAR NY IS GREATER THAN OR EQUAL TO 3

160 IF(P6.LT.1.) GO TO 157

$P13(1) = (P6 - 1.) * P12(NY - 2, NP) + (2. - P6) * P12(NY - 1, NP)$

GO TO 158

C  
C END

COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),  
 1 A113(20,3),A10(20)  
 COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)  
 DIMENSION P15(20,3),P16(20,3),P17(22,3),P18(20,3),P25(22),  
 1 P208(20),P209(20,3)

C  
 C COMPUTE STUDENT LOAD P25 PER YEAR  
 C

NY = 1  
 IND = 0  
 176 NN = NY - IND  
 NP = NA7(NN)  
 DO 1000 I = 1,3  
 1000 P17(NY, I) = 0.  
 P25(NY) = 0.  
 IF(P16(NN, NP).LT.1.) GO TO 200

C  
 C LENGTH OF LAST PHASE IN YEAR NY IS GREATER THAN OR EQUAL TO 1 YEAR  
 C

IF(NY.GE.2) GO TO 180

C  
 C YEAR NY IS 1. STUDENT LOAD IN LAST PHASE OF YEAR NY.  
 C

177 P17(NY, NP) = P15(NN, NP)/2.

C  
 C STUDENT LOAD ALL PHASES IN YEAR NY.  
 C

P25(NY) = P25(NY) + P17(NY, NP)

178 IF(NP.LE.1) GO TO 179

NP = NP - 1

GO TO 190

179 IF(NY.GE.NYRS) GO TO 229

NY = NY + 1

GO TO 176

180 IF(NY.LT.3) GO TO 181

C  
 C YEAR NY IS GREATER THAN OR EQUAL TO 3.  
 C

A = ((P16(NN, NP)-1.)\*\*2)\*P15(NN, NP)/2.

P17(NY-2, NP) = P17(NY-2, NP) + A

P25(NY-2) = P25(NY-2) + A

181 A = (2.-P16(NN, NP))\*P15(NN, NP)\*P16(NN, NP)/2.

A = A + P15(NN, NP)\*(P16(NN, NP)-1.)

P17(NY-1, NP) = P17(NY-1, NP) + A

P25(NY-1) = P25(NY-1) + A

GO TO 177

190 IF(NY.LT.2) GO TO 179

IF(NY.LT.3) GO TO 195

A = ((P18(NN, NP)-1.)\*\*2 - (P18(NN, NP+1)-1.)\*\*2)\*P15(NN, NP)/2.

P17(NY-2, NP) = P17(NY-2, NP) + A

P25(NY-2) = P25(NY-2) + A

195 A = (P15(NN, NP)/2.)\*(4.\*P18(NN, NP)-P18(NN, NP)\*\*2)

A = A + (P15(NN, NP)/2.)\*(P18(NN, NP+1)\*\*2 - 4.\*P18(NN, NP+1))

P17(NY-1, NP) = P17(NY-1, NP) + A

P25(NY-1) = P25(NY-1) + A

GO TO 178

C  
 C LENGTH OF LAST PHASE IN YEAR NY IS LESS THAN 1 YEAR  
 C

```

200 IF(NY.LT.2) GO TO 205
C
C YEAR NY IS GREATER THAN OR EQUAL TO 2.
C
A = (P15(NN,NP)/2.)*P18(NN,NP)**2
P17(NY-1,NP) = P17(NY-1,NP) + A
P25(NY-1) = P25(NY-1) + A
205 A = P15(NN,NP)*(P18(NN,NP) - .5*P18(NN,NP)**2)
P17(NY,NP) = P17(NY,NP) + A
P25(NY) = P25(NY) + A
206 IF(NP.LE.1) GO TO 179
NP = NP - 1
IF(P18(NN,NP).GE.1.) GO TO 215
GO TO 220
C
C LENGTH OF PHASE NP IN YEAR NY IS GREATER THAN OR EQUAL TO 1 YEAR
C
215 IF(NY.LT.2) GO TO 217
IF(NY.LT.3) GO TO 216
A = ((P18(NN,NP)-1.))**2)*P15(NN,NP)/2.
P17(NY-2,NP) = P17(NY-2,NP)+A
P25(NY-2) = P25(NY-2) + A
216 A = 4.*P18(NN,NP)-P18(NN,NP)**2-P18(NN,NP+1)**2-2.
A = A*P15(NN,NP)/2.
P17(NY-1,NP) = P17(NY-1,NP) + A
P25(NY-1) = P25(NY-1) + A
217 A=P15(NN,NP)*(.5+.5*P18(NN,NP+1)**2-P18(NN,NP+1))
P17(NY,NP) = P17(NY,NP) + A
P25(NY) = P25(NY) + A
IF(NP.LE.1) GO TO 179
NP = NP - 1
GO TO 190
C
C LENGTH OF PHASE NP IN YEAR NY IS LESS THAN 1 YEAR.
C
220 IF(NY.LT.2) GO TO 222
A = P15(NN,NP)*(P18(NN,NP)**2-P18(NN,NP+1)**2)/2.
P17(NY-1,NP) = P17(NY-1,NP) + A
P25(NY-1) = P25(NY-1) + A
222 A=.5*(P18(NN,NP+1)**2-P18(NN,NP)**2)+P18(NN,NP)-P18(NN,NP+1)
P17(NY,NP) = P17(NY,NP) + P15(NN,NP)*A
P25(NY) = P25(NY) + P15(NN,NP)*A
GO TO 206
229 IF(IND.EQ.2) GO TO 230
IND = IND + 1
NY = NY + 1
GO TO 176
C
C STUDENT LOAD FOR EACH YEAR HAS BEEN CALCULATED
C
230 IF(IC.EQ.0) GO TO 10
DO 225 I = 1,NYRS
225 WRITE(6,1010) I,P25(I), (J,P17(I,J), J = 1,3)
1010 FORMAT(3HONY,2X,I,2X,3HP25,2X,F7.2,2X,3(2HNP,2X,I1,2X,3HP17,
1 F9.2))
10 NY = 1
31 DO 12 I = 1,3
12 P209(NY,I) = 0.

```

```

C  STUDENT LOAD + SURGE BY YEAR
C
    P208(NY) = P25(NY) + A224(NY)
    NP = 1
C
C  STUDENT LOAD + SURGE BY YEAR AND PHASE
C
232 P209(NY, NP) = P208(NY)*P17(NY, NP)/P25(NY)
    IF(NP.GE.NA7(NY)) GO TO 233
    NP = NP + 1
    GO TO 232
233 IF(IC.EQ.0) GO TO 11
    WRITE(6,1011) NY, P208(NY), (J, P209(NY, J), J = 1, 3)
1011 FORMAT(3HONY, 2X, I2, 2X, 4HP208, 2X, F7.2, 2X, 3(2HNP, 2X, I1, 2X, 4HP209,
1 2X, F7.2))
11 IF(NY.GE.NYRS) RETURN
    NY = NY + 1
    GO TO 231
C
    END

    SUBROUTINE ATTRLS(NYRS, P7, P18, IC)
    COMMON/ONE/A1(20, 3), A2(20, 3), NA7(20), A43(20, 3), A44(20, 3),
1 A113(20, 3), A10(20)
    DIMENSION P7(22), P18(20, 3)
C
C  COMPUTE ATTRITIONLESS ENTRIES P7 INTO UPT FOR ALL YEARS
C
    NY = 1
    IND = 0
C
C  COURSE LENGTH IN YEARS FOR YEAR NY
C
52 KN = NY - IND
    P6 = P18(KN, 1)
53 IF(P6.LE.2.) GO TO 55
C
C  COURSE LENGTH IS GREATER THAN 2 YEARS.
C  PRINT ERROR MESSAGE.
C  TERMINATE EXECUTION.
C
    WRITE(6, 51) NY
51 FORMAT(41HCOURSE LENGTH EXCEEDS TWO YEARS IN YEAR , I2)
    CALL EXIT
C
C  COURSE LENGTH IN YEAR NY IS LESS THAN OR EQUAL TO TWO YEARS.
C
55 P7(NY) = 0.
    IF(P6.GT.1.) GO TO 60
C
C  COURSE LENGTH IN YEAR NY IS LESS THAN OR EQUAL TO ONE YEAR.
C
    IF(NY.LE.1) GO TO 66
    YEAR NY IS GREATER THAN 1.

```

C ATTRITIONLESS ENTRIES INTO COURSE THAT WILL MEET GRADUATION  
C REC. IN YEAR NY.

C  
C P7(NY - 1) = P7(NY - 1) + A10(NN)\*P6  
56 P7(NY) = A10(NN)\*(1. - P6)  
57 IF(NY.GE.NYRS) GO TO 70  
58 NY = NY + 1  
GO TO 52

C  
C COURSE LENGTH IN YEAR NY IS GREATER THAN 1.

C  
C 60 IF(NY.LE.2) GO TO 65

C  
C YEAR NY IS GREATER THAN 2  
C ATTRITIONLESS ENTRIES INTO COURSE THAT WILL MEET GRADUATION  
C REC. IN YEAR NY.

C  
C P7(NY - 2) = P7(NY - 2) + A10(NN)\*(P6 - 1.)  
61 P7(NY - 1) = P7(NY - 1) + A10(NN)\*(2. - P6)  
GO TO 57

C  
C YEAR NY IS LESS THAN OR EQUAL TO 2.

C  
C 65 IF(NY.LE.1.) GO TO 58

C  
C YEAR NY IS GREATER THAN 1

C  
C GO TO 61

C  
C 70 IF(IND.EQ.2) GO TO 69

IND = IND + 1  
NY = NY + 1  
GO TO 52  
69 IF(IC.EQ.0) RETURN  
WRITE(6,1003) (P7(1), I = 1,NYRS)  
1003 FORMAT(3HOP7,2X,10(F8.2,2X)//)

C  
C RETURN  
C END

SUBROUTINE CAP(NYRS,BASES,P1,P17,P25,P18A,P19,P20,P24,P27,P28,P29,  
1 NP30,P31,P36,P103,P33,P208,P2C9,NPP35,P205,IC)  
COMMON/ARRAY/T(2625)  
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),  
1 A113(20,3),A10(20)  
COMMON/CNEA/A9(20,3)  
COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)  
DIMENSION P1(20,3),P17(22,3),P25(22),P18A(20,15,3),P19(20,15,3),  
1 P20(20,15,3),P24(20,15,3),P27(20,15,3),P28(20,15),  
2 P29(20),NP30(20),P31(20,15,3),P36(20,15,3),P103(20,15),  
3 P33(20,15,3),P208(20),P209(20,3),NPP35(20,15),P205(20,3)  
DIMENSION P37(3)

COMPUTE CAPABILITY AND BASE LOADING

DO 266 I = 1,20  
 DO 265 J = 1,15  
 DO 264 K = 1,3  
 P18A(I,J,K) = 0.  
 P19(I,J,K) = 0.  
 P20(I,J,K) = 0.  
 P24(I,J,K) = 0.  
 P27(I,J,K) = 0.  
 P31(I,J,K) = 0.  
 P36(I,J,K) = 0.  
 264 P33(I,J,K) = 0.  
 P28(I,J) = 0.  
 265 P103(I,J) = 0.  
 DO 501 K = 1,3  
 501 P205(I,K) = 0.  
 266 CONTINUE

C  
C SET PREFERENCE RANK

NP34 = 0  
NY = 1

C  
C SET BASE RECOMPUTATION INDICATOR

NP35 = 0

C  
C READ T(56) - T(499) FOR YEAR NY

C  
C 251 CALL INPUT(NY,3)

C  
C SET MAXIMUM STUDENT LOAD/YEAR NY

P29(NY) = 0.  
IF(NY.GT.1) GO TO 252

C  
C UPT BASES IN YEAR NY

NP30(NY) = BASES + T(477) + .5

C  
C NPP35(NY,NB) WILL INDICATE WHETHER A BASE NB IS A NEW BASE IN YEAR NY.

C  
C  
C DO 262 J = 1,20  
C DO 262 I = 1,15  
C 262 NPP35(J,I) = 0  
C GO TO 253

252 NP30(NY) = NP30(NY-1) + T(477) + .5  
IF(T(477).EQ.0.) GO TO 253  
M = NP30(NY - 1) + 1  
N = NP30(NY)

DO 263 I = M,N

263 NPP35(NY,I) = 1

253 NB = 1

254 IF(T(478).EQ.1.) GO TO 2075

C  
C SET MAXIMUM LOAD FOR BASE NB IN YEAR NY

P28(NY,NB) = 99999.

GO TO 2000

75 P28(NY,NB) = 0.

```

2000 NP = 1
258 IF(NP35.EQ.1) GO TO 255
C
C SET ADDITIONAL FLYING AREAS REQUIRED
C
P3;(NP) = 0.
C
C CHECK CONTRACT DESIGNATOR FOR PHASE NP
C
255 IF(NA15(NY,NP).NE.1) GO TO 274
C
C PHASE NP IS A CONTRACTED PHASE
C
259 IF(NP.GE.NA7(NY)) GO TO 256
257 NP = NP + 1
GO TO 258
C
C MAXIMUM STUDENT LOAD/YEAR
C
256 IF(T(478).EQ.1.) GO TO 2001
P29(NY) = P29(NY) + P28(NY,NB)
2001 IF(NP35.NE.1) GO TO 260
NP35 = 0
GO TO 300
260 IF(IC.EQ.0) GO TO 10
WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
3(P205(NY,I), I = 1,3)
1012 FORMAT(3HONY,2X,12,2X,2HN8,2X,12/3(4H A17,2X,F6.0,2X,
1 3HA18,2X,F6.C,2X,4HP18A,2X,F5.2,2X,3HP19,2X,
2 F6.2,2X,3HP20,2X,F5.2,2X,3HP24,2X,FG.2,2X,3HP27,2X,F8.2,2X,3HP31,
3 2X,F5.2,2X,3HP36,2X,F5.2,2X,3HP33,2X,F8.2/),4H P28,2X,F8.2,
4 2X,4HP103,3X,F8.2,3(4HP205,2X,F8.2))
10 IF(NB.GE.NP30(NY)) GO TO 300
NB = NB + 1
GO TO 254
C
C PHASE NP IS NOT A CONTRACTED PHASE
C
274 IF(NPP35(NY,NB).NE.0) GO TO 278
275 IF(NY.GT.1) GO TO 276
C
C RUNWAYS
C
278 P18A(NY,NB,NP) = A17(NB,NP) + A18(NY,NB,NP) + P36(NY,NB,NP)
GO TO 277
276 P18A(NY,NB,NP) = P18A(NY-1,NB,NP) + A18(NY,NB,NP) + P36(NY,NB,NP)
C
C EFFECTIVE LAUNCH INTERVAL IN MINUTES(RUNWAY CONSTRAINED)
C
277 IJ = 3*(NB-1) + NP
IF(P18A(NY,NB,NP).EQ.0.) GO TO 4000
P20(NY,NB,NP) = T(IJ+14E)/P18A(NY,NB,NP)
4000 IF(NPP35(NY,NB).NE.0) GO TO 279
IF(NY.GT.1) GO TO 280

```

279  $P19(NY,NB,NP) = T(IJ+283) + T(IJ+328) + P37(NP)$

GO TO 281

280  $P19(NY,NB,NP) = P19(NY-1,NB,NP) + T(IJ+328) + P37(NP)$

C

C EFFECTIVE LAUNCH INTERVAL IN MINUTES(AIRSPACE CONSTRAINED)

C

281 IF(P19(NY,NB,NP).EQ.0.) GO TO 4001

$P31(NY,NB,NP) = T(NP+464)/P19(NY,NB,NP)$

4001 IF(P31(NY,NB,NP).GE.P20(NY,NB,NP)) GO TO 282

C

C EFFECTIVE LAUNCH INTERVAL IN MINUTES

C

$P32 = P20(NY,NB,NP)$

GO TO 283

282  $P32 = P31(NY,NB,NP)$

C

C SORTIE PER FLYING DAY CAPABILITY

C

283  $P21 = 0.$

IF(P32.EQ.0.) GO TO 4002

$P21 = (60.*T(464) - T(NP+464))/P32$

C

C EFFECTIVE STUDENT SORTIES PER TRAINING DAY

C

4002  $P22 = P21*(1.-T(NP+467))*T(IJ+193)*T(NP+470)$

C

C STUDENT DAYLIGHT SORTIES/TRAINING DAY/STUDENT REQUIRED

C

$P23 = (A1(NY,NP)/(T(NP+464)/60.))*T(NP+473)/(P1(NY,NP) + A9(NY,NP))$

C

C MAXIMUM PHASE STUDENT LOAD CONSIDERING PHASE NP

C

IF(P23.EQ.0.) GO TO 4003

$P24(NY,NB,NP) = (P22/P23)*T(IJ+238)$

4003 IF(T(478).NE.1.) GO TO 290

C

C UPT PROGRAM IS NOT CONSOLIDATED

C

C MAXIMUM STUDENT LOAD/YEAR BY PHASE

C

291  $P205(NY,NP) = P205(NY,NP) + P24(NY,NB,NP)$

$P28(NY,NB) = P28(NY,NB) + P24(NY,NB,NP)$

IF(NP35.EQ.1) GO TO 2050

IF(NP.GE.NA7(NY)) GO TO 2050

GO TO 257

C

2050  $NP = 1$

2051 IF(NA15(NY,NP).EQ.1) GO TO 2052

2053 IF(NP.GE.NA7(NY)) GO TO 2055

$NP = NP + 1$

GO TO 2051

2052  $NN = T(179)$

$P28(NY,NB) = P28(NY,NB) + P24(NY,NB,NP)*P17(NY,NP)/P17(NY,NN)$

GO TO 2053

2055 IF(NP35.NE.1) GO TO 260

$NP35 = 0$

GO TO 400



```

C
C UPT PROGRAM IS CONSOLIDATED
C COURSE STUDENT LOAD SUPPORTABLE BY PHASE
C
C 290 P27(NY,NB,NP) = P24(NY,NB,NP)*P25(NY)/P17(NY,NP)
C IF(P27(NY,NB,NP).GE.P28(NY,NB)) GO TO 259
C
C MAXIMUM STUDENT LOAD CONSIDERING ALL PHASES
C
C P28(NY,NB) = P27(NY,NB,NP)
C GO TO 259
C
C CHECK UPT PROGRAM CONSOLIDATION INDICATOR
C
C 300 IF(T(478).EQ.1.)GO TO 400
C
C UPT PROGRAM IS CONSOLIDATED. COMPARE MAX. STUDENT LOAD/YEAR
C WITH STUDENT LOAD PLUS SURGE/YEAR.
C
C IF(P29(NY).GE.P208(NY)) GO TO 32C
C
C COMPUTED STUDENT LOAD PLUS SURGE EXCEEDS MAX. STUDENT LOAD.
C TRY TO EXPAND FACILITIES.
C
C 3001 IF(NP34.LT.10) GO TO 302
C
C STUDENT LOAD PLUS SURGE EXCEEDS CAPACITY IN YEAR NY.
C THERE IS INSUFFICIENT CAPACITY AFTER ALL POSSIBLE ADDITIONS
C HAVE BEEN MADE.
C
C WRITE(6,301) NY
C 301 FORMAT(50HSTUDENT LOAD PLUS SURGE EXCEEDS CAPACITY IN YEAR ,I2,
C 11H./76HTHERE IS INSUFFICIENT CAPACITY AFTER ALL POSSIBLE ADDI
C 2NS HAVE BEEN MADE./39HOPROGRAM EXECUTION HAS BEEN TERMINATED.)
C
C CALL EXIT
C
C 302 NP34 = NP34 + 1
C
C CHECK IF ADDITIONAL UPT BASE IS PREFERRED
C
C IF(T(NP34+479).NE.1.) GO TO 303
C
C ADD ONE UPT BASE
C
C NP30(NY) = NP30(NY) + 1
C NB = NP30(NY)
C NPP35(NY,NB) = 2
C GO TO 254
C
C ADDITIONAL UPT BASE IS NOT PREFERRED
C
C 303 NB = 1
C 304 NP = 1
C
C CHECK IF AN ADDITIONAL RUNWAY IS PREFERRED
C
C 307 IJ = 3*(NB-1) + NP
C NA31 = T(IJ+373)

```

```

IF(NA31.NE.NP34) GO TO 305
C
C ADDITIONAL RUNWAY REQUIRED
C
P36(NY,NB,NP) = 1.
GO TO 310
C
C CHECK IF ADDITIONAL FLYING AREAS REQUIRED
C
305 NA32 = T(IJ+418)
IF(NA32.NE.NP34) GO TO 306
C
C ADDITIONAL FLYING AREAS REQUIRED
C
P37(NP) = T(NP34+489)
GO TO 310
306 IF(NP.GE.NA7(NY)) GO TO 308
NP = NP + 1
GO TO 307
308 IF(NB.GE.NP30(NY)) GO TO 3001
NB = NB + 1
GO TO 304
C
C SET-BASE RECOMPUTATION INDICATOR
C
310 NP35 = 1
IF(T(478).EQ.1.) GO TO 311
C
C MAXIMUM STUDENT LOAD/YEAR
C
P29(NY) = P29(NY) - P28(NY,NB)
GO TO 254
C
C MAXIMUM STUDENT LOAD/YEAR BY PHASE
C
311 P205(NY,NP) = P205(NY,NP) - P24(NY,NB,NP)
C
C MAXIMUM STUDENT LOAD CONSIDERING ALL PHASES
C
P28(NY,NB) = P28(I,I,NB) - P24(NY,NB,NP)
C
NR = 1
2061 IF(NA15(NY,NR).EQ.1) GO TO 2060
2062 IF(NR.GE.NA7(NY)) GO TO 275
NR = NR + 1
GO TO 2061
2060 NN = T(479)
P28(NY,NB) = P28(NY,NB) - P24(NY,NB,NN)*P17(NY,NR)/P17(NY,NN)
GO TO 2062
C
C STUDENT LOAD PLUS SURGE DOES NOT EXCEED CAPACITY
C
320 NB = 1
321 P103(NY,NB) = 0.
NP = 1
C
C STUDENT LOAD BY PHASE, BASE, YEAR
C
322 P33(NY,NB,NP) = P17(NY,NP)*P28(NY,NB)/P29(NY)

```

```

C
C STUDENT LOAD FOR ALL PHASES
C
  P103(NY,NB) = P103(NY,NB) + P33(NY,NB,NP)
  IF(NP.GE.NA7(NY)) GO TO 325
  NP = NP + 1
  GO TO 322
325 IF(IC.EQ.0) GO TO 11
  WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
  1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
  2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
  3(P205(NY,I),I = 1,3)
  11 IF(NB.GE.NP30(NY)) GO TO 450
  NB = NB + 1
  GO TO 321
C
C BASE RECOMPUTATION INDICATOR IS 1 AND PROGRAM IS NOT CONSOLIDATED.
C
400 P29(NY) = 99999.
  NP = 1
401 IF(NA15(NY,NP).NE.1) GO TO 403
402 IF(NP.GE.NA7(NY)) GO TO 404
  NP = NP + 1
  GO TO 401
403 A = P205(NY,NP)/(P17(NY,NP)/P25(NY))
  IF(A.LE.P29(NY)) GO TO 2003
  GO TO 402
2003 P29(NY) = A
  GO TO 402
C
404 NP = 1
  IF(NA15(NY,NP).EQ.1) GO TO 410
C
C COMPARE MAX. STUDENT LOAD/YEAR PHASE NP WITH
C STUDENT LOAD PLUS SURGE/YEAR PHASE NP.
C
405 IF(P205(NY,NP).LT.P209(NY,NP)) GO TO 3001
C
C STUDENT LOAD PLUS SURGE DOES NOT EXCEED CAPACITY
C
410 IF(NP.GE.NA7(NY)) GO TO 411
  NP = NP + 1
  GO TO 405
411 NB = 1
412 P103(NY,NB) = 0.
  NP = 1
413 IF(NA15(NY,NP).EQ.1) GO TO 414
C
C STUDENT LOAD BY PHASE, BASE, YEAR
C
  P33(NY,NB,NP) = P17(NY,NP)*P24(NY,NB,NP)/P205(NY,NP)
  GO TO 415
414 N = I(479)
  P33(NY,NB,NP) = P17(NY,NP)*P24(NY,NB,N)/P205(NY,N)
415 P103(NY,NB) = P103(NY,NB) + P33(NY,NB,NP)
  IF(NP.GE.NA7(NY)) GO TO 416
  NP = NP + 1
  GO TO 413
6 IF(IC.EQ.0) GO TO 12

```

```

WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
3(P205(NY,I),I = 1,3)
12 IF(NB.GE.NP30(NY)) GO TO 450
   NB = NB + 1
   GO TO 412
450 IF(NY.GE.NYRS) RETURN
   NY = NY + 1
   GO TO 251

C
END

```

```

SUBROUTINE ZERC(P50,P51,P52,P53,P54,P55,P210,P211,P212,P213,P214,
1          P215,P216,P217,P218,P219,P220,P221,P223,P224,
2          P225,P226,P227,P228,P229,P60,P90)
DIMENSION P50(20,15,3),P51(20,15,3),P52(20,15,3),P53(20,15),
1          P54(20,15),P55(20,15),P210(20,15),P211(20,15),
2          P212(20,15),P213(20,15),P214(20,15),P215(20,15),
3          P216(20,15),P217(20,15),P218(20,15),P219(20,15),
4          P220(20,15),P221(20,15),P223(20,15),P224(20,15),
5          P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
6          P229(20,15),P60(20,15,3),P90(20,3)

```

```

C
C SET TO ZERO THE ACCUMULATING VARIABLES USED IN OPMANP,MAMANP,
C   FSMANP,VSMANP,ACCUM,AND PRINT4.
C

```

```

DO 20 NY = 1,20
DO 18 NB = 1,15
DO 10 NP = 1,3
P50(NY,NB,NP) = 0.
P51(NY,NB,NP) = 0.
P52(NY,NB,NP) = 0.
P227(NY,NB,NP) = 0.
P60(NY,NB,NP) = 0.
10 CONTINUE
P53(NY,NB) = 0.
P54(NY,NB) = 0.
P55(NY,NB) = 0.
P210(NY,NB) = 0.
P211(NY,NB) = 0.
P212(NY,NB) = 0.
P213(NY,NB) = 0.
P214(NY,NB) = 0.
P215(NY,NB) = 0.
P216(NY,NB) = 0.
P217(NY,NB) = 0.
P218(NY,NB) = 0.
P219(NY,NB) = 0.
P220(NY,NB) = 0.
P221(NY,NB) = 0.
P223(NY,NB) = 0.
P224(NY,NB) = 0.
P225(NY,NB) = 0.
P226(NY,NB) = 0.

```

```

P228(NY,NB) = 0.
18 P229(NY,NB) = 0.
DO 19 NP = 1,3
19 P90(NY,NP) = 0.
20 CONTINUE

```

C

```

RETURN
END

```

```

SUBROUTINE OPMANP(NY,NB,P2,P16,P33-P39,P38,P46, P50,P51,P52,
1 P53,P54,P55, P210,P211,P212, P1,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
COMMON/ONEA/A9(20,3)
DIMENSION P2(20),P16(20,3),P33(20,15,3),P39(3),P38(3),P46(3),
1 P50(20,15,3),P51(20,15,3),P52(20,15,3),
2 P54(20,15),P55(20,15), P210(20,15),P211(20,15),
3 P212(20,15),P53(20,15),P1(20,3)

```

C

```

IF(IC.EQ.0) GO TO 1
WRITE(6,1014)

```

```

1014 FORMAT(1H1)

```

C

```

C COMPUTE OPERATIONS MANPOWER FOR YEAR NY, BASE NB.

```

C

C

```

1 NP = 1

```

C

```

C INSTRUCTOR PILOTS REQUIRED

```

C

```

503 AA = A1(NY,NP)/(P1(NY,NP)+A9(NY,NP))
A = AA*P2(NY)*P33(NY,NB,NP)*T(499+NP) - T(502+NP)
P38(NP) = T(508 + NP) + (T(505 + NP)/ICCC.)*A

```

C

```

C PILOT TRAINING SQ. OFFICERS ASSIGNED BY PHASE

```

C

```

P39(NP) = P38(NP)*T(556+NB)

```

C

```

C PILOT TRAINING SQ. PERSONNEL

```

C

```

P210(NY,NB) = P210(NY,NB) + P39(NP)

```

C

```

C OFFICERS LESS STUDENTS BY PHASE

```

C

```

P50(NY,NB,NP) = P50(NY,NB,NP) + P39(NP)

```

C

```

IF(IC.EQ.0) GO TO 2

```

```

WRITE(6,1015) NY,NB,NP,P38(NP),P39(NP),P210(NY,NB),P50(NY,NB,NP)

```

```

1015 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,2HNP,2X,12,2X,3HP38,2X,F7.2,
1 2X,3HP39,2X,F7.2,2X,4HP210,2X,F7.2,2X,3HP50,2X,F7.2)

```

C

```

2 IF(NP.GE.NA7(NY)) GO TO 505

```

```

NP = NP + 1

```

```

GO TO 503

```

PILOT TRNG. SQ. OFFICERS ASSIGNED - NO PHASE

$$505 \text{ P40} = \text{T}(511+\text{NB}) * \text{T}(526+\text{NB}) * \text{T}(556+\text{NB})$$

PILOT TRAINING SQ. AIRMEN ASSIGNED - NO PHASE

$$\text{P41} = \text{T}(511+\text{NB}) * \text{T}(541+\text{NB}) * \text{T}(556+\text{NB})$$

PILOT TRNG. SQ. CIVILIANS - NO PHASE

$$\text{P42} = \text{T}(511+\text{NB}) * (1. - \text{T}(526+\text{NB}) - \text{T}(541+\text{NB}))$$

PILOT TRAINING SQ. PERSONNEL

$$\text{P210}(\text{NY}, \text{NB}) = \text{P210}(\text{NY}, \text{NB}) + \text{P40} + \text{P41} + \text{P42}$$

IF(1C.EQ.0) GO TO 3

WRITE(6,1016) NY,NB,P40,P41,P42,P210(NY,NB)

1016 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,3HP40,2X,F7.2,2X,3HP41,2X,  
1 F7.2,2X,3HP42,2X,F7.2,2X,4HP210,2X,F7.2)

$$3 \text{ NP} = 1$$

STUDENT SQ. PERSONNEL BY PHASE

$$506 \text{ P46}(\text{NP}) = (\text{A43}(\text{NY}, \text{NP}) * \text{T}(571+\text{NP}) + \text{A44}(\text{NY}, \text{NP}) * \text{T}(574+\text{NP}))$$

STUDENT SQ. OFFICERS ASSIGNED BY PHASE

$$[\text{J} = 3 * (\text{NB} - 1) + \text{NP}]$$

$$\text{P43} = \text{P46}(\text{NP}) * \text{T}(577+\text{J}) * \text{T}(667+\text{NB})$$

$$\text{P50}(\text{NY}, \text{NB}, \text{NP}) = \text{P50}(\text{NY}, \text{NB}, \text{NP}) + \text{P43}$$

STUDENT SQ. AIRMEN ASSIGNED BY PHASE

$$\text{P44} = \text{P46}(\text{NP}) * \text{T}(622+\text{J}) * \text{T}(667+\text{NB})$$

AIRMEN BY PHASE

$$\text{P51}(\text{NY}, \text{NB}, \text{NP}) = \text{P51}(\text{NY}, \text{NB}, \text{NP}) + \text{P44}$$

STUDENT SQ. CIVILIANS BY PHASE

$$\text{P45} = \text{P46}(\text{NP}) * (1. - \text{T}(577+\text{J}) - \text{T}(622+\text{J}))$$

CIVILIANS BY PHASE

$$\text{P52}(\text{NY}, \text{NB}, \text{NP}) = \text{P52}(\text{NY}, \text{NB}, \text{NP}) + \text{P45}$$

STUDENT SQ. PERSONNEL

$$\text{P211}(\text{NY}, \text{NB}) = \text{P211}(\text{NY}, \text{NB}) + \text{P43} + \text{P44} + \text{P45}$$

IF(1C.EQ.0) GO TO 4

WRITE(7,1017) NY,NB,NP,P46(NP), P43, P44, P45, P50(NY,NB,NP),  
P51(NY,NB,NP), P52(NY,NB,NP), P211(NY,NB)

```

1017 FORMAT(3HONY,1X,12,1X,2HNB,1X,12,1X,2HNP,1X,12,1X,3HP46,2X,F7.2,
1      2X,3HP43,2X,F7.2,2X,3HP44,2X,F7.2,2X,3HP45,2X,F7.2,2X,
2      3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2,2X,4HP211,
3      2X,F7.2)

```

C  
C

```

4 IF(NP.GE.NA7(NY)) GO TO 507
   NP = NP + 1
   GO TO 506

```

C  
C  
C

STUDENT SQ. OFFICERS ASSIGNED - NO PHASE

```
507 P47 = T(682+NB)*T(697+NB)*T(667+NB)
```

C  
C  
C

STUDENT SQ. AIRMEN ASSIGNED - NC PHASE

```
P48 = T(667+NB)*T(682+NB)*T(712+NB)
```

C  
C  
C

STUDENT SQ. CIVILIANS - NO PHASE

```
P49 = T(682+NB)*(1. - T(697+NB) - T(712+NB))
```

C  
C  
C

STUDENT SQ. PERSONNEL

```
P211(NY,NB) = P211(NY,NB) + P47 + P48 + P49
```

C  
C  
C

```
IF(IC.EQ.0) GO TO 5
```

```
WRITE(6,1018) NY,NB,P47,P48,P49,P211(NY,NB)
```

```
1018 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,3HP47,2X,F7.2,2X,3HP48,2X,
1      F7.2,2X,3HP49,2X,F7.2,2X,4HP211,2X,F7.2)
```

C  
C  
C

```
5 NP = 1
```

C  
C  
C

SIMULATOR INSTRUCTORS BY PHASE

```
508 A = A113(NY,NP)*P33(NY,NB,NP)*T(730+NP)/P16(NY,NP)
   P56 = A*T(733+NP)/1000.
```

C  
C  
C

```
IJ = 3*(NB - 1) + NP
```

C  
C  
C

SIMULATOR OFFICERS ASSIGNED BY PHASE

```
P342 = P56*T(IJ+2531)*T(NB+751)
```

C  
C  
C

SIMULATOR AIRMEN ASSIGNED BY PHASE

```
P343 = P56*T(IJ+2576)*T(NB+751)
```

C  
C  
C

```
P50(NY,NB,NP) = P50(NY,NB,NP) + P342
```

```
P51(NY,NB,NP) = P51(NY,NB,NP) + P343
```

C  
C  
C

SIMULATOR BR. PERSONNEL

```
P212(NY,NB) = P212(NY,NB) + P342 + P343
```

C  
C  
C

```
IF(IC.EQ.0) GO TO 6
```

```
WRITE(6,1019) NY,NB,NP,P56, P51(NY,NB,NP),P212(NY,NB)
```

```
1019 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,2HNP,2X,12,2X,3HP56,2X,F7.2,
1      2X,3HP51,2X,F7.2,2X,4HP212,2X,F7.2)
```

B-31

```
C
C
6 IF(NP.GE.NA7(NY)) GO TO 510
  NP = NP + 1
  GO TO 508

C
C SIMULATOR OFFICERS ASSIGNED - NO PHASE
C
510 P57 = T(736+NB)*T(751+NB)*T(1430+NB)

C
C SIMULATOR AIRMEN ASSIGNED - NO PHASE
C
  P58 = T(736+NB)*T(751+NB)*T(1445+NB)

C
C SIMULATOR CIVILIANS - NO PHASE
C
  P59 = T(736+NB)*(1. - T(1430+NB) - T(1445+NB))

C
C SIMULATOR BR. PERSONNEL
C
  P212(NY,NB) = P212(NY,NB) + P57 + P58 + P59

C
C OFFICERS LESS STUDENTS - NO PHASE
C
  P53(NY,NB) = P53(NY,NB) + P40 + P47 + P57

C
C AIRMEN - NO PHASE
C
  P54(NY,NB) = P54(NY,NB) + P41 + P48 + P58

C
C CIVILIANS - NO PHASE
C
  P55(NY,NB) = P55(NY,NB) + P42 + P49 + P59

C
  IF(IC.EQ.0) GO TO 7
  WRITE(6,1020) NY,NB,P57,P58,P59,P212(NY,NB),P53(NY,NB),P54(NY,NB),
1      P55(NY,NB)
1020 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,3HP57,2X,F7.2,2X,3HP58,2X,
1      F7.2,2X,3HP59,2X,F7.2,2X,4HP212,2X,F7.2,2X,3HP53,2X,F7.2,
2      2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2)

C
7 RETURN
  ENC
```

```
SUBROUTINE MAMANP(NY,NB,P1,P2,P33,P39,P16,P38,P46,P50,P51,P52,
1      P53,P54,P55,P73,P6C,P9C,P176,P213,P214,P215,
2      P61,P65,P69,P177,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
COMMON/ONE/A9(20,3)
DIMENSION P1(20,3),P2(20),P33(20,15,3),P39(3),P38(3),P46(3),
1      P50(20,15,3),P51(20,15,3),P52(20,15,3),
2      P53(20,15),P54(20,15),P55(20,15),      P60(20,15,3),
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3 P90(20,3),P176(3),P213(20,15),P214(20,15),P215(20,15),  
4 P16(20,3),P61(3),P65(3),P69(3)

C COMPUTE MAINTENANCE AND ADMINISTRATIVE MANPOWER FOR YEAR NY, BASE NB  
C  
C

NP = 1

515 IF(NB.NE.1) GO TO 516

C SET FLYING HRS. FOR ALL BASES = 0  
C

P90(NY, NP) = 0.

516 IF(NP.EQ.1) GO TO 517

C FLYING HOURS/YEAR  
C

A=P33(NY,NB, NP)\*(A1(NY, NP)/(P1(NY, NP)+A9(NY, NP)))\*P2(NY)\*  
1 (1. + T(769+NP))

P60(NY, NB, NP)=(A+T(766+NP)\*P39(NP))\*(1.+T(772+NP))

GO TO 518

517 A = P33(NY, NB, NP)\*T(1054)\*P2(NY)\*(1.+T(769+NP))/(P1(NY, NP) +  
1 A9(NY, NP))

P60(NY, NB, NP)=(A + T(766+NP)\*P39(NP))\*(1. + T(772+NP)).

C FLYING HOURS FOR ALL BASES  
C

518 P90(NY, NP) = P90(NY, NP) + P60(NY, NB, NP)

C FIELD MAINT. PERSONNEL BY PHASE  
C

IJ = 3\*(NB-1) + NP

P61(NP) = P60(NY, NB, NP)\*T(775+NP) + T(778+IJ)

C FIELD MAINT. OFFICERS ASGN. BY PHASE  
C

P62 = P61(NP)\*T(823+NB)\*T(853+NB)

C FIELD MAINT. AIRMEN ASSIGNED BY PHASE  
C

P63 = P61(NP)\*T(838+NB)\*T(853+NB)

C FIELD MAINT. CIVILIANS BY PHASE  
C

P64 = P61(NP)\*(1. - T(823+NB) - T(838+NB))

C IF(IC.EQ.0) GO TO 1  
WRITE(6,1021) NY, NB, NP, P60(NY, NB, NP), P90(NY, NP), P61(NP), P62,  
1 P63, P64

1021 FORMAT(3HONY, 2X, I2, 2X, 2HNB, 2X, I2, 2X, 2HNP, 2X, I2, 2X, 3HP60, 2X, F9.2,  
1 2X, 3HP90, 2X, F9.2, 2X, 3HP61, 2X, F7.2, 2X, 3HP62, 2X, F7.2, 2X, 3HP63,  
2 2X, F7.2, 2X, 3HP64, 2X, F7.2)

C ORGAN. MAINT. PERSONNEL BY PHASE  
C

1 P65(NP) = P60(NY, NB, NP)\*T(868+NP) + T(871+IJ)

C AN. MAINT. OFFICERS ASSIGNED BY PHASE  
C

P66 = P65(NP)\*T(916+NB)\*T(946+NB)

ORGAN. MAINT. AIRMEN ASSIGNED BY PHASE

P67 = P65(NP)\*T(931+NB)\*T(946+NB)

ORGAN. MAINT. CIVILIANS BY PHASE

P68 = P65(NP)\*(1.-T(916+NB)-T(931+NB))

IF(IC.EQ.0) GO TO 2

WRITE(6,1022) P65(NP), P66,P67,P68

1022 FORMAT(1H0,2X,3HP65,2X,F7.2,2X,3HP66,2X,F7.2,2X,3HP67,2X,F7.2,2X,  
1 3HP68,2X,F7.2)

PILOT TRNG. WING PERSONNEL BY PHASE

2 P69(NP) = T(962)\*(P33(NY,NB,NP)+P38(NP)+P46(NP)+

1 (A113(NY,NP)/P16(NY,NP))+P33(NY,NB,NP)\*T(NP+730)\*T(NP+733)/1000.)

2 +T(953)\*(P61(NP) +P65(NP))

PILOT TRNG. WG. OFFICERS ASGN. BY PHASE

P70 = P69(NP)\*T(978+NB)\*T(1008+NB)

PILOT TRNG. WG. AIRMEN ASGN. BY PHASE

P71 = P69(NP)\*T(993+NB)\*T(1008+NB)

PILOT TRNG. WG. CIVILIANS BY PHASE

P72 = P69(NP)\*(1.-T(978+NB)-T(993+NB))

IF(IC.EQ.0) GO TO 3

WRITE(6,1023) P69(NP),P70,P71,P72

1023 FORMAT(1H0,24X,3HP69,2X,F7.2,2X,3HP70,2X,F7.2,2X,3HP71,2X,F7.2,2X,  
1 3HP72,2X,F7.2)

3 P50(NY,NB,NP) = P50(NY,NB,NP) + P62 + P66 + P70

P51(NY,NB,NP) = P51(NY,NB,NP) + P63 + P67 + P71

P52(NY,NB,NP) = P52(NY,NB,NP) + P64 + P68 + P72

P176(NP) = P50(NY,NB,NP)+P51(NY,NB,NP)+P52(NY,NB,NP)

FIELD MAINT. PERSONNEL

P213(NY,NB) = P213(NY,NB) + P63 + P64 + P62

ORGAN. MAINT. PERSONNEL

P214(NY,NB) = P214(NY,NB) + P66 + P67 + P68

PILOT TRNG. WG. PERSONNEL

P215(NY,NB) = P215(NY,NB) + P70 + P71 + P72

IF(IC.EQ.0) GO TO 4

WRITE(6,1024) P50(NY,NB,NP),P51(NY,NB,NP),P52(NY,NB,NP),P176(NP),  
P213(NY,NB),P214(NY,NB),P215(NY,NB)

1024 FORMAT(1H0,24X,3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2,2X,  
 1 4HP176,2X,F7.2,2X,4HP213,2X,F7.2,2X,4HP214,2X,F7.2,2X,  
 2 4HP215,2X,F7.2)

C  
 C  
 4 IF(NP.GE.NA7(NY)) GO TO 520  
 NP = NP + 1  
 GO TO 515

C  
 C  
 C FIELD MAINT. OFFICERS ASSIGNED - NO PHASE

520 P199 = T(1023+NB)\*T(823+NB)\*T(853+NB)

C  
 C FIELD MAINT. AIRMEN ASNG. - NO PHASE

P200 = T(1023+NB)\*T(838+NB)\*T(853+NB)

C  
 C FIELD MAINT. CIVILIANS - NC PHASE

P201 = T(1023+NB)\*(1.-T(823+NB)-T(838+NB))

C  
 C ORGAN. MAINT. OFFICERS ASSIGNED - NC PHASE

P202 = T(1038+NB)\*T(916+NB)\*T(946+NB)

C  
 C ORGAN. MAINT. AIRMEN ASSIGNED - NC PHASE

P203 = T(1038+NB)\*T(931+NB)\*T(946+NB)

C  
 C ORGAN. MAINT. CIVILIANS - NO PHASE

P204 = T(1038+NB)\*(1.-T(916+NB)-T(931+NB))

C  
 C IF(IC.EQ.0) GO TO 5

WRITE(6,1026) P199,P200,P201,P202,P203,P204

1026 FORMAT(1H0,17X,4HP199,2X,F7.2,2X,4HP200,2X,F7.2,2X,4HP201,2X,F7.2,  
 1 2X,4HP202,2X,F7.2,2X,4HP203,2X,F7.2,2X,4HP204,2X,F7.2)

C  
 C OTHER PILOT TRNG. WG. PERSONNEL

5 P73 = T(963+NB) + T(962)\*(T(NB+511)+T(NB+682)+T(NB+736)) +  
 1 T(963)\*(T(NB+1023) + T(NB+1038))

C  
 C PILOT TRNG. WG. OFFICERS ASGN. - NO PHASE

P74 = P73\*T(978+NB)\*T(1008+NB)

C  
 C PILOT TRNG. WG. AIRMEN ASGN. - NO PHASE

P75 = P73\*T(993+NB)\*T(1008+NB)

C  
 C PILOT TRNG. WG. CIVILIANS - NC PHASE

P76 = P73\*(1.-T(978+NB)-T(993+NB))

C  
 C IF(IC.EQ.0) GO TO 6

WRITE(6,1025) NY,NB,P73,P74,P75,P76

FORMAT(3HONY,2X,[2,2X,2HNB,2X,[2,2X,3HP73,2X,F7.2,2X,3HP74,2X,

1 F7.2,2X,3HP75,2X,F7.2,2X,3HP76,2X,F7.2)

OFFICERS LESS STUDENTS - NO PHASE

6 P53(NY,NB) = P53(NY,NB) + P74 + P199 + P202

AIRMEN - NO PHASE

P54(NY,NB) = P54(NY,NB) + P75 + P200 + P203

CIVILIANS - NO PHASE

P55(NY,NB) = P55(NY,NB) + P76 + P201 + P204

OPER., MAINT. AND ADMIN. PERSONNEL - NO PHASE

P177 = P53(NY,NB) + P54(NY,NB) + P55(NY,NB)

FIELD MAINT. PERSONNEL

P213(NY,NB) = P213(NY,NB) + P199 + P200 + P201

ORGAN. MAINT. PERSONNEL

P214(NY,NB) = P214(NY,NB) + P202 + P203 + P204

PILOT TRNG. WG. PERSONNEL

P215(NY,NB) = P215(NY,NB) + P74 + P75 + P76

IF(IC.EQ.0) RETURN

WRITE(6,1027) P53(NY,NB),P54(NY,NB),P55(NY,NB),P177,P213(NY,NB),  
1 P214(NY,NB),P215(NY,NB)

1027 FORMAT(1H0,17X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2,2X,

1 4HP177,2X,F7.2,2X,4HP213,2X,F7.2,2X,4HP214,2X,F7.2,2X,

2 4HP215,2X,F7.2)

RETURN

END

SUBROUTINE FSMANP(NY,NB,P216,P217,P218,P219,P53,P54,P55,IC)  
COMMON/ARRAY/T(2625)

DIMENSION P216(20,15),P217(20,15),P218(20,15),P219(20,15),

1 P53(20,15),P54(20,15),P55(20,15)

COMPUTE FIXED SUPPORT MANPOWER FOR YEAR NY, BASE NB.

SUPPLY SQUADRON OFFICERS ASSIGNED - NO PHASE

P77 = T(1054+NB)\*T(1069+NB)\*T(1099+NB)

SUPPLY SQ. AIRMEN ASSIGNED - NO PHASE

P78 = T(1054+NB)\*T(1084+NB)\*T(1099+NB)

C  
C SUPPLY SQ. CIVILIANS - NO PHASE

P79 = T(1054+NB)\*(1.-T(1069+NB)-T(1084+NB))

C  
C SUPPLY PERSONNEL

P216(NY,NB) = P216(NY,NB) + P77 + P78 + P79

C  
C IF(IC.EQ.0) GO TO 1  
C WRITE(6,1028) P77,P78,P79,P216(NY,NB)  
1028 FORMAT(1H0,16X,3HP77,2X,F7.2,2X,3HP78,2X,F7.2,2X,3HP79,2X,F7.2,2X,  
1 4HP216,2X,F7.2)

C  
C  
C FIELD TRNG. SQ. OFFICERS ASSIGNED - NO PHASE

1 P80 = T(1114+NB)\*T(1129+NB)\*T(1159+NB)

C  
G FIELD TRNG. SQ. AIRMEN ASSIGNED - NO PHASE

P81 = T(1114+NB)\*T(1144+NB)\*T(1159+NB)

C  
C FIELD TRNG. SQ. CIVILIANS - NO PHASE

P82 = T(1114+NB)\*(1.-T(1129+NB)-T(1144+NB))

C  
C FIELD TRNG. PERSONNEL

P217(NY,NB) = P217(NY,NB) + P80 + P81 + P82

C  
C IF(IC.EQ.0) GO TO 2  
C WRITE(6,1029) P80,P81,P82,P217(NY,NB)  
1029 FORMAT(1H0,16X,3HP80,2X,F7.2,2X,3HP81,2X,F7.2,2X,3HP82,2X,F7.2,2X,  
1 4HP217,2X,F7.2)

C  
C  
C SUPPORT SQ. OFFICERS ASSIGNED - NO PHASE

2 P83 = T(1174+NB)\*T(1189+NB)\*T(1219+NB)

C  
C SUPPORT SQ. AIRMEN ASSIGNED - NO PHASE

P84 = T(1174+NB)\*T(1204+NB)\*T(1219+NB)

C  
C SUPPORT SQ. CIVILIANS - NO PHASE

P85 = T(1174+NB)\*(1.-T(1189+NB)-T(1204+NB))

C  
C SUPPORT PERSONNEL

P218(NY,NB) = P218(NY,NB) + P83 + P84 + P85

C  
C IF(IC.EQ.0) GO TO 3  
C WRITE(6,1030) P83,P84,P85,P218(NY,NB)  
1030 FORMAT(1H0,16X,3HP83,2X,F7.2,2X,3HP84,2X,F7.2,2X,3HP85,2X,F7.2,2X,  
1 4HP218,2X,F7.2)

SUPPORT TENANT OFFICERS ASSIGNED - NO PHASE

$$3 \text{ P86} = T(1234+NB) * T(1249+NB) * T(1279+NB)$$

SUPPORT TENANT AIRMEN ASSIGNED - NO PHASE

$$\text{P87} = T(1234+NB) * T(1264+NB) * T(1279+NB)$$

SUPPORT TENANT CIVILIANS - NO PHASE

$$\text{P88} = T(1234+NB) * (1 - T(1249+NB) - T(1264+NB))$$

SUPPORT TENANTS

$$\text{P219(NY,NB)} = \text{P219(NY,NB)} + \text{P86} + \text{P87} + \text{P88}$$

OFFICERS LESS STUDENTS - NO PHASE

$$\text{P53(NY,NB)} = \text{P53(NY,NB)} + \text{P77} + \text{P80} + \text{P83} + \text{P86}$$

AIRMEN - NO PHASE

$$\text{P54(NY,NB)} = \text{P54(NY,NB)} + \text{P78} + \text{P81} + \text{P84} + \text{P87}$$

CIVILIANS - NC PHASE

$$\text{P55(NY,NB)} = \text{P55(NY,NB)} + \text{P79} + \text{P82} + \text{P85} + \text{P88}$$

IF(IC.EQ.0) RETURN

WRITE(6,1031) P86,P87,P88,P219(NY,NB),P53(NY,NB),P54(NY,NB),

1 P55(NY,NB)

1031 FORMAT(1H0,16X,3HP86,2X,F7.2,2X,3HP87,2X,F7.2,2X,3HP88,2X,F7.2,2X,

1 4HP219,2X,F7.2,2X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,

2 3HP55,2X,F7.2)

RETURN

END

SUBROUTINE VSMANP(NY,NB,P33,P50,P51,P52,P53,P54,P55,P176,P177,

1 P220,P221,P16,P38,P46,P73,P61,P65,P69,IC)

COMMON/ARRAY/T(2625)

COMMON/ONE/A1(20,3),A2(20,?),NA7(20),A43(20,3),A44(20,3),

1 A113(20,3),A10(20)

1 DIMENSION P33(20,15,3),P50(20,15,3),P51(20,15,3),P52(20,15,3),

1 P53(20,15),P54(20,15),P55(20,15),P176(3),

2 P220(20,15),P221(20,15),P16(20,3),P38(3),P46(3),

3 P61(3),P65(3),P69(3)

COMPUTE VARIABLE SUPPORT MANPOWER FOR YEAR NY, BASE NB.

NP = 1

AIR BASE GP. PERSONNEL BY PHASE

```

C
525 P171 = T(1310)*{(P33(NY,NB,NP)+P38(NP)+P46(NP)+
1   {A113(NY,NP)/P16(NY,NP)}*P33(NY,NB,NP)*T(NP+730)*
2   T(NP+733)/1000. + P61(NP) + P65(NP) + P69(NP)}
C
C AIR BASE GP. OFFICERS BY PHASE
C
P172 = P171*T(1310+NB)*T(1340+NB)
C
C AIR BASE GP. AIRMEN BY PHASE
C
P173 = P171*T(1325+NB)*T(1340+NB)
C
C AIR BASE GP. CIVILIANS BY PHASE
C
P174 = P171*(1.-T(1310+NB)-T(1325+NB))
C
C AIR BASE GP. PERSONNEL
C
P220(NY,NB) = P220(NY,NB) + P172 + P173 + P174
C
IF(IC.EQ.0) GO TO 1
WRITE(6,1032) NY,NB,NP,P171,P172,P173,P174,P220(NY,NB)
1032 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,2HNP,2X,12,2X,4HP171,2X,F7.2,
1      2X,4HP172,2X,F7.2,2X,4HP173,2X,F7.2,2X,4HP174,2X,F7.2,2X,
2      4HP220,2X,F7.2)
C
C HOSPITAL(DISPENSARY) PERSONNEL BY PHASE
C
1 IJ = 3*(NB - 1) + NP
P175 = T(1370+NB)*{(P33(NY,NB,NP)+P38(NP)+P46(NP)*T(IJ+577) +
1   T(IJ+622))+(A113(NY,NP)/P16(NY,NP)}*P33(NY,NB,NP)*T(NP+730)*
2   T(NP+733)/1000. + P61(NP)*T(NB+823)+T(NB+838) +
3   P65(NP)*T(NB+916)+T(NB+931) + P69(NP)*T(NB+978)+T(NB+993) +
4   P171*(T(NB+1310)+T(NB+1325))
C
C HOSPITAL(DISPENSARY) OFFICERS BY PHASE
C
P178 = P175*T(1385+NB)*T(1415+NB)
C
C HOSPITAL(DISPENSARY) AIRMEN BY PHASE
C
P179 = P175*T(1400+NB)*T(1415+NB)
C
C HOSPITAL(DISPENSARY) CIVILIANS BY PHASE
C
P180 = P175*(1.-T(1385+NB)-T(1400+NB))
C
C HOSPITAL(DISPENSARY) PERSONNEL
C
P221(NY,NB) = P221(NY,NB) + P178 + P179 + P180
C
IF(IC.EQ.0) GO TO 2
WRITE(6,1033) P175,P178,P179,P180,P221(NY,NB)
1033 FORMAT(1H0,24X,4HP175,2X,F7.2,2X,4HP178,2X,F7.2,2X,4HP179,2X,F7.2,
1      2X,4HP180,2X,F7.2,2X,4HP221,2X,F7.2)

```

C OFFICERS LESS STUDENTS BY PHASE

$$2 \text{ P50(NY,NB,NP)} = \text{P50(NY,NB,NP)} + \text{P172} + \text{P178}$$

C AIRMEN BY PHASE

$$\text{P51(NY,NB,NP)} = \text{P51(NY,NB,NP)} + \text{P173} + \text{P179}$$

C CIVILIANS BY PHASE

$$\text{P52(NY,NB,NP)} = \text{P52(NY,NB,NP)} + \text{P174} + \text{P180}$$

IF(IC.EQ.0) GO TO 3

WRITE(6,1034) P50(NY,NB,NP),P51(NY,NB,NP),P52(NY,NB,NP)

1034 FORMAT(1H0,24X,3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2)

3 IF(NP.GE.NA7(NY)) GO TO 530

NP = NP + 1

GO TO 525

C AIR BASE GROUP PERSONNEL - NC PHASE

$$530 \text{ P181} = \text{T}(1294+\text{NB})+\text{T}(1310)*(\text{T}(\text{NB}+511)+\text{T}(\text{NB}+682)+\text{T}(\text{NB}+736))+$$

$$1 \text{ T}(\text{NB}+1023)+\text{T}(\text{NB}+1038)+\text{P73}$$

C AIR BASE GROUP OFFICERS - NO PHASE

$$\text{P182} = \text{P181}*\text{T}(1310+\text{NB})*\text{T}(1340+\text{NB})$$

C AIR BASE GROUP AIRMEN - NO PHASE

$$\text{P183} = \text{P181}*\text{T}(1325+\text{NB})*\text{T}(1340+\text{NB})$$

C AIR BASE GROUP CIVILIANS - NO PHASE

$$\text{P184} = \text{P181}*(1.-\text{T}(1310+\text{NB})-\text{T}(1325+\text{NB}))$$

C AIR BASE GROUP PERSONNEL

$$\text{P220(NY,NB)} = \text{P220(NY,NB)} + \text{P182} + \text{P183} + \text{P184}$$

IF(IC.EQ.0) GO TO 4

WRITE(6,1035) NY,NB,P181,P182,P183,P184,P220(NY,NB)

1035 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,4HP181,2X,F7.2,2X,4HP182,2X,

1 F7.2,2X,4HP183,2X,F7.2,2X,4HP184,2X,F7.2,2X,4HP220,2X,F7.2)

C HOSPITAL(DISPENSARY) PERSONNEL - NC PHASE

$$4 \text{ P185} = \text{T}(1355+\text{NB})+\text{T}(1370+\text{NB})*(\text{T}(\text{NB}+511)*(\text{T}(\text{NB}+526)+\text{T}(\text{NB}+541))+$$

$$1 \text{ T}(\text{NB}+682)*(\text{T}(\text{NB}+697)+\text{T}(\text{NB}+712))+\text{T}(\text{NB}+736)*(\text{T}(\text{NB}+1430)+$$

$$2 \text{ T}(\text{NB}+1445))+\text{T}(\text{NB}+1023)*(\text{T}(\text{NB}+823)+\text{T}(\text{NB}+838))+\text{T}(\text{NB}+1038)*$$

$$3 \text{ T}(\text{NB}+916)+\text{T}(\text{NB}+931))+\text{P73}*(\text{T}(\text{NB}+978)+\text{T}(\text{NB}+993))+\text{T}(\text{NB}+1054)+$$

$$5 \text{ T}(\text{NB}+1069)+\text{T}(\text{NB}+1084))+1(\text{NB}+1114)*(\text{T}(\text{NB}+1129)+\text{T}(\text{NB}+1144))+$$

$$6 \text{ T}(\text{NB}+1174)*(\text{T}(\text{NB}+1189)+\text{T}(\text{NB}+1204))+\text{T}(\text{NB}+1234)*(\text{T}(\text{NB}+1249)+$$

$$7 \text{ T}(\text{NB}+1264))+\text{P181}*(\text{T}(\text{NB}+1310)+\text{T}(\text{NB}+1325)))$$

C HOSPITAL(DISPENSARY) OFFICERS - NC PHASE



```

C
C      P186 = P185*T(1385+NB)*T(1415+NB)
C
C HOSPITAL(DISPENSARY) AIRMEN - NO PHASE
C
C      P187 = P185*T(1400+NB)*T(1415+NB)
C
C HOSPITAL(DISPENSARY) CIVILIANS - NO PHASE
C
C      P188 = P185*(1.-T(1335+NB)-T(1400+NB))
C
C HOSPITAL(DISPENSARY) PERSONNEL
C
C      P221(NY,NB) = P221(NY,NB) + P186 + P187 + P188
C
C      IF(IC.EQ.0) GO TO 5
C      WRITE(6,1036) P185,P186,P187,P188,P221(NY,NB)
1036 FORMAT(1H0,16X,4HP185,2X,F7.2,2X,4HP186,2X,F7.2,2X,4HP187,2X,F7.2,
1      2X,4HP188,2X,F7.2,2X,4HP221,2X,F7.2)
C
C
C OFFICERS LESS STUDENTS - NO PHASE
C
C      5 P53(NY,NB) = P53(NY,NB) + P182 + P186
C
C AIRMEN - NO PHASE
C
C      P54(NY,NB) = P54(NY,NB) + P183 + P187
C
C CIVILIANS - NO PHASE
C
C      P55(NY,NB) = P55(NY,NB) + P184 + P188
C
C      IF(IC.EQ.0) RETURN
C      WRITE(6,1037) P53(NY,NB),P54(NY,NB),P55(NY,NB)
1037 FORMAT(1H0,16X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2)
C
C      RETURN
C      END

SUBROUTINE ACCUM(NY,NB,P50,P51,P52,P53,P54,P55,P103,P223,P224,
1      P225,P226,P227,P228,P229,IC)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
DIMENSION P50(20,15,3),P51(20,15,3),P52(20,15,3),P53(20,15),
1      P54(20,15),P55(20,15),P103(20,15),P223(20,15),
2      P224(20,15),P225(20,15),P226(20,15),P227(20,15,3),
3      P228(20,15),P229(20,15)

C
C ACCUMULATE MANPOWER PERSONNEL FOR YEAR NY, BASE NB.
C
C
C
C      NP = 1
C
C OFFICERS BY BASE

```

```

C
540 P223(NY,NB) = P223(NY,NB) + P50(NY,NB,NP)
C
C AIRMEN BY BASE
C
C P224(NY,NB) = P224(NY,NB) + P51(NY,NB,NP)
C
C CIVILIANS BY BASE
C
C P225(NY,NB) = P225(NY,NB) + P52(NY,NB,NP)
C
C PERSONNEL BY PHASE AND BASE
C
C P227(NY,NB,NP) = P50(NY,NB,NP) + P51(NY,NB,NP) + P52(NY,NB,NP)
C
C IF(IC.EQ.0) GO TO 1
C WRITE(6,1038) NY,NB,NP,P223(NY,NB),P224(NY,NB),P225(NY,NB),
1 P227(NY,NB,NP)
1038 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP223,2X,F7.2,
1 2X,4HP224,2X,F7.2,2X,4HP225,2X,F7.2,2X,4HP227,2X,F7.2)
C
C
C 1 IF(NP.GE.NA7(NY)) GO TO 550
C NP = NP + 1
C GO TO 540
C
C 550 P223(NY,NB) = P223(NY,NB) + P53(NY,NB)
C P224(NY,NB) = P224(NY,NB) + P54(NY,NB)
C P225(NY,NB) = P225(NY,NB) + P55(NY,NB)
C
C PERSONNEL BY BASE
C
C P226(NY,NB) = P223(NY,NB) + P224(NY,NB) + P225(NY,NB)
C
C STUDENTS PLUS PERMANENT PARTY
C
C P229(NY,NB) = P226(NY,NB) + P103(NY,NB)
C
C PERSONNEL BY BASE - NO PHASE
C
C P228(NY,NB) = P53(NY,NB) + P54(NY,NB) + P55(NY,NB)
C
C IF(IC.EQ.0) RETURN
C WRITE(6,1039) NY,NB,P223(NY,NB),P224(NY,NB),P225(NY,NB),
1 P226(NY,NB),P229(NY,NB),P228(NY,NB)
1039 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,4HP223,2X,F7.2,2X,4HP224,2X,
1 F7.2,2X,4HP225,2X,F7.2,2X,4HP226,2X,F7.2,2X,4HP229,2X,
2 F7.2,2X,4HP228,2X,F7.2)
C
C RETURN
C END

```

```

SUBROUTINE EQUIP(NYRS,P1,P33,P90,P91,P92,P94,P95,P230,P231,P234,
1 P300,P167,NP30,NPP35,P96,P93,IC)
DIMENSION P1(20,3),P33(20,15,3),P90(20,3),P91(20,3),P92(20,3),

```

```

1          P94(20,15,3),P95(20,15,3),P230(20,3),P231(20,15,3),
2          P234(20,15),P300(20,3),P167(20,15),NP30(20),NPP35(20,15)
   DIMENSION P96(20,3),P93(20,15,3)
   COMMON/ARRAY/T(2625)
   COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1  A113(20,3),A10(20)
   COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
   COMMON/FIVEA/NA250(20,3), NA251(20,3)

C
C  COMPUTE EQUIPMENT FOR EACH YEAR, BASE, AND PHASE
C
   DO 10 I = 1,20
   DO 8 J = 1,15
   DO 5 K = 1,3
   P93(I,J,K) = 0.
   P94(I,J,K) = 0.
   P95(I,J,K) = 0.
5  P231(I,J,K) = 0.
   P234(I,J) = 0.
8  P167(I,J) = 0.
   DO 9 K = 1,3
   P91(I,K) = 0.
   P92(I,K) = 0.
   P96(I,K) = 0.
   P230(I,K) = 0.
9  P300(I,K) = 0.
10 CONTINUE

C
   IF(IC.EQ.0) GO TO 1
   WRITE(6,6)
6  FORMAT(1H1;

C
C
   1 NY = 1

C
C  READ T(1461) - T(1625) FOR YEAR NY.
C
20 CALL INPUT(NY,5)

C
   NP = 1

C
C  AIRCRAFT REQUIRED FOR ALL BASES
C
25 IF(T(NP+1460).EQ.0.) GO TO 26
   P96(NY,NP) = P90(NY,NP)/(12.*T(NP+1460))

C
C  AIRCRAFT ATTRITION LOSSES
C
26 P300(NY,NP) = T(NP+1469)*P90(NY,NP)/100000.

C
C  CHECK IF THERE IS A NEW A/C TYPE IN PHASE NP
C
   IF(NA250(NY,NP).EQ.1) GO TO 27
   IF(NY.GT.1) GO TO 30

C
C  AIRCRAFT AVAILABLE BEFORE MCOEL PROCUREMENT
C
   P91(NY,NP) = T(NP+1463) + A111(NY,NP) - P300(NY,NP)

```

```

C AIRCRAFT AVAILABLE BEGINNING OF YEAR
C
  P230(NY,NP) = T(NP+1463)
  GO TO 35
C
30 P91(NY,NP) = P91(NY-1,NP)+A111(NY,NP) + P92(NY-1,NP)-P300(NY,NP)
  P230(NY,NP)=P230(NY-1,NP)+A111(NY-1,NP)+P92(NY-1,NP)-P300(NY-1,NP)
C
35 IF(P91(NY,NP).GE.P96(NY,NP)) GO TO 40
C
C AIRCRAFT PROCURED BY MODEL
C
  P92(NY,NP) = P96(NY,NP) - P91(NY,NP)
C
  GO TO 45
40 P92(NY,NP) = 0.
C
45 IF(IC.EQ.0) GO TO 2
  WRITE(6,110) NY,NP,P96(NY,NP),P91(NY,NP),P230(NY,NP),P300(NY,NP),
  1 P52(NY,NP)
110 FORMAT(3HONY,2X,12,2X,2HPNP,2X,12,2X,3HP96,2X,F7.2,2X,3HP91,2X,
  1 F7.2,2X,4HP230,2X,F7.2,2X,4HP300,2X,F7.2,2X,3HP92,2X,F7.2)
C
  2 NB = 1
C
C SIMULATORS REQUIRED
C
46 IF(P1(NY,NP).EQ.0..OR.T(NP+1472).EQ.C.) GO TO 460
  P93(NY,NB,NP)=(P33(NY,NB,NP)*A113(NY,NP)/P1(NY,NP))/T(NP+1472)
C
C CHECK IF BASE NB IS NEW IN YEAR NY
C
460 IF(NPP35(NY,NB).NE.0) GO TO 47
C
C CHECK IF THERE IS A NEW SIMULATOR IN PHASE NP
C
  IF(NA251(NY,NP).EQ.1) GO TO 47
  IF(NY.GT.1) GO TO 50
C
C SIMULATORS AVAILABLE BEFORE MODEL PROCUREMENT
C
47 IJ = 3*(NB-1) + NP
  P94(NY,NB,NP) = T(IJ+1475) + A116(NY,NB,NP)
C
C SIMULATORS AVAILABLE BEGINNING OF YEAR
C
  P231(NY,NB,NP) = T(IJ+1475)
  GO TO 55
C
50 P94(NY,NB,NP) = P94(NY-1,NB,NP)+A116(NY,NB,NP)+P95(NY-1,NB,NP)
  P231(NY,NB,NP) = P231(NY-1,NB,NP)+A116(NY-1,NB,NP)+P95(NY-1,NB,NP)
C
55 IF(P94(NY,NB,NP).GE.P93(NY,NB,NP)) GO TO 60
  P95(NY,NB,NP) = P93(NY,NB,NP) - P94(NY,NB,NP)
  GO TO 65
C
C SIMULATORS PROCURED BY MODEL

```

```

60 P95(NY,NB,NP) = 0.
C
65 IF(IC.EQ.0) GO TO 3
   WRITE(6,120) NY,NB,NP,P93(NY,NB,NP),P94(NY,NB,NP),P231(NY,NB,NP),
   1           P95(NY,NB,NP),A116(NY,NB,NP)
120 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,2HNP,2X,12,2X,3HP93,2X,F7.2,
   1         2X,3HP94,2X,F7.2,2X,4HP231,2X,F7.2,2X,3HP95,2X,F7.2,
   2         2X,4HA116,2X,F4.0)
C
   3 IF(NB.GE.NP30(NY)) GO TO 70
     NB = NB + 1
     GO TO 46
C
   70 IF(NP.GE.NA7(NY)) GO TO 75
     NP = NP + 1
     GO TO 25
C
   75 NB = 1
C
   CHECK IF BASE NB IS NEW IN YEAR NY
C
     IF(NPP35(NY,NB).NE.0) GO TO 77
   76 IF(NY.GT.1) GO TO 80
C
   SUPPORT AIRCRAFT
C
   77 P167(NY,NB) = T(NB+1580) + A147(NY,NB)
C
   RESCUE AND RECOVERY AIRCRAFT
C
     P234(NY,NB) = T(NB+1565) + A146(NY,NB)
     GO TO 85
C
   80 P167(NY,NB) = P167(NY-1,NB) + A147(NY,NB)
     P234(NY,NB) = P234(NY-1,NB) + A146(NY,NB)
C
   85 IF(IC.EQ.0) GO TO 4
     A = T(NB+1580)
     B = T(NB+1565)
     WRITE(6,130) NY,NB,P167(NY,NB),P234(NY,NB),A,B,
     2   A147(NY,NB),A146(NY,NB)
130 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,4HP167,2X,F7.2,2X,4HP234,
   1         2X,F7.2,2X,4HA201,2X,F4.0,2X,4HA225,2X,F4.0,2X,
   2         4HA147,2X,F4.0,2X,4HA146,2X,F4.0)
C
   4 IF(NB.GE.NP30(NY)) GO TO 90
     NB = NB + 1
     GO TO 76
C
   90 IF(NY.GE. NYRS) GO TO 100
     NY = NY + 1
     GO TO 20
C
100 RETURN
   END

```

```

SUBROUTINE FACIL(NYRS,NP30,NPP35,P94,P95,P103,P99,P102,P98,P101,
1 P104,P105,P106,P107,P232,P233,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A1C(20)
COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
DIMENSION NP30(20),NPP35(20,15),P94(20,15,3),P95(20,15,3),
1 P103(20,15),P99(20,15),P102(20,15),P98(20,15),
2 P101(20,15),P104(20,15),P105(20,15),P106(20,15),
3 P107(20,15),P232(20,15),P233(20,15)

```

```

C
C COMPUTE FACILITIES FOR EACH YEAR AND BASE
C
C IF(IC.EQ.0) GO TO 2
C WRITE(6,1)
C 1 FORMAT(1H1)
C
C 2 DO 5 I = 1,20
C DO 5 J = 1,15
C P99(I,J) = 0.
C 5 P102(I,J) = 0.
C
C NY = 1
C
C READ T(1626) - T(1901) FOR YEAR NY.
C
C 10 CALL INPUT(NY,6)
C
C NB = 1
C
C 14 P97 = 0.
C 15 NP = 1
C
C SIMULATOR AREA REQUIRED
C
C 16 P97 = P97 + (P94(NY,NB,NP)+P95(NY,NB,NP))*T(NP+1625)
C IF(NP.GE.NA7(NY)) GO TO 20
C NP = NP + 1
C GO TO 16
C
C CHECK IF BASE NB IS NEW IN YEAR NY
C
C 20 IF(NPP35(NY,NB).NE.0) GO TO 25
C IF(NY.GT.1) GO TO 30
C
C SIMULATOR AREA AVAILABLE BEFORE MODEL ADDITION
C
C 25 P98(NY,NB) = T(NB+1628) + A119(2,NB) - A120(2,NB)
C
C SIMULATOR AREA AVAILABLE BEGINNING OF YEAR
C
C P232(NY,NB) = T(NB+1629)
C GO TO 35
C
C 30 P98(NY,NB) = P98(NY-1,NB) + A119(2,NB) - A120(2,NB)+P99(NY-1,NB)
C P232(NY,NB) = P232(NY-1,NB)+A119(1,NB) - A120(1,NB) + P99(NY-1,NB)
C
C 35 IF(P98(NY,NB).GE.P97) GO TO 50

```

C IF((P97 - P98(NY,NB)).LT.T(1674)) GO TO 50  
 C SIMULATOR AREA ADDED BY MODEL  
 C P99(NY,NB) = P97 - P98(NY,NB)  
 C GO TO 55  
 C 50 P99(NY,NB) = 0.  
 C CLASSROOM AREA REQUIRED  
 C 55 P100 = T(1675)\*P103(NY,NB)  
 C CHECK IF BASE NB IS NEW IN YEAR NY  
 C IF(NPP35(NY,NB).NE.0) GO TO 60  
 C IF(NY.GT.1) GO TO 65  
 C CLASSROOM AREA AVAILABLE BEFORE MODEL ADDITION  
 C 60 P101(NY,NB) = T(NB+1675) + A124(2,NB) - A125(2,NB)  
 C CLASSROOM AREA AVAILABLE BEGINNING OF YEAR  
 C P233(NY,NB) = T(NB+1675)  
 C GO TO 70  
 C 65 P101(NY,NB) = P101(NY-1,NB) + A124(2,NB)-A125(2,NB)+P102(NY-1,NB)  
 C P233(NY,NB) = P233(NY-1,NB)+A124(1,NB)-A125(1,NB)+P102(NY-1,NB)  
 C 70 IF(P101(NY,NB).GE.P100) GO TO 75  
 C IF((P100 - P101(NY,NB)).LT.T(1721)) GO TO 75  
 C CLASSROOM AREA ADDED BY MODEL  
 C P102(NY,NB) = P100 - P101(NY,NB)  
 C GO TO 80  
 C 75 P102(NY,NB) = 0.  
 C CHECK IF BASE NB IS NEW IN YEAR NY.  
 C 80 IF(NPP35(NY,NB).NE.0) GO TO 85  
 C IF(NY.GT.1) GO TO 90  
 C SQ. FT. OF FLY. TRAIN. BASIC BLDG.  
 C 85 P104(NY,NB) = T(NB+1721) + T(NB+1736) - T(NB+1751)  
 C AIRMEN DORMITORIES  
 C P105(NY,NB) = T(NB+1766) + T(NB+1781) - T(NB+1796)  
 C BACHELOR OFFICER QUARTERS  
 C P106(NY,NB) = T(NB+1811) + T(NB+1826) - T(NB+1841)

```
P107(NY,NB) = T(NB+1856) + T(NB+1871) - T(NB+1886)
GO TO 100
```

```
90 P104(NY,NB) = P104(NY-1,NB) + T(NB+1736) - T(NB+1751)
P105(NY,NB) = P105(NY-1,NB) + T(NB+1781) - T(NB+1796)
P106(NY,NB) = P106(NY-1,NB) + T(NB+1826) - T(NB+1841)
P107(NY,NB) = P107(NY-1,NB) + T(NB+1871) - T(NB+1886)
```

```
100 IF(IC.EQ.0) GO TO 101
```

```
WRITE(6,150) NY,NB,P97,A119(2,NB),A120(2,NB),P98(NY,NB),
1 P232(NY,NB),P99(NY,NB),P100,A124(2,NB),A125(2,NB),
2 P101(NY,NB),P233(NY,NB),P1C2(NY,NB)
```

```
150 FORMAT(3HONY,2X,12,2X,2HNB,2X,12,2X,3HP97,2X,F8.2,2X,4HA119,2X,
1 F8.2,2X,4HA120,2X,F8.2,2X,3HP98,2X,F8.2,2X,4HP232,2X,F8.2,
2 2X,3HP99,2X,F8.2/17X,4HP1C0,2X,F8.2,2X,4HA124,2X,F8.2,2X,
3 4HA125,2X,F8.2,2X,4HP1C1,2X,F8.2,2X,4HP233,2X,F8.2,2X,
4 4HP102,2X,F8.2)
```

```
S1 = T(NB+1721)
S2 = T(NB+1736)
S3 = T(NB+1751)
S4 = T(NB+1766)
S5 = T(NB+1781)
S6 = T(NB+1796)
S7 = T(NB+1811)
S8 = T(NB+1826)
S9 = T(NB+1841)
S10 = T(NB+1856)
S11 = T(NB+1871)
S12 = T(NB+1886)
```

```
WRITE(6,151) S1,S2,S3,P104(NY,NB),S4,S5,S6,P105(NY,NB),
1 S7,S8,S9,P1C6(NY,NB),S1C,S11,S12,P1C7(NY,NB),
2 NPP35(NY,NB)
```

```
151 FORMAT(1H ,16X,4HA127,2X,F6.0,2X,4HA128,2X,F6.0,2X,4HA129,2X,F6.0,
1 2X,4HP1C4,2X,F6.0/17X,4HA130,2X,F6.0,2X,4HA131,2X,F6.0,2X,
2 4HA132,2X,F6.0,2X,4HP105,2X,F6.C/17X,4HA133,2X,F6.C,2X,
3 4HA134,2X,F6.0,2X,4HA135,2X,F6.0,2X,4HP106,2X,F6.0/17X,
4 4HA136,2X,F6.0,2X,4HA137,2X,F6.0,2X,4HA138,2X,F6.0,2X,
5 4HP107,2X,F6.0/ 17X,5HNPP35,2X,12/)
```

```
101 IF(NB.GE.NP30(NY)) GO TO 105
```

```
NB = NB + 1
GO TO 14
```

```
105 IF(NY.GE.NYRS) RETURN
```

```
NY = NY + 1
```

```
SAVE THE PRECEDING YEAR'S VALUES FOR A119,A120,A124,A125 IN THE
ARRAYS WITH FIRST INDEX OF 1.
```

```
DO 110 I = 1,15
A119(1,I) = A119(2,I)
A120(1,I) = A120(2,I)
A124(1,I) = A124(2,I)
110 A125(1,I) = A125(2,I)
```

```
GO TO 10
```



END

```

SUBROUTINE INVCE(NY,P91,P92,P95,P108,P109,P110,P115,P116,P340,
1 P236,P237,P257,P279,P280,P168,NP30,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A1C(20)
COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
COMMON/FIVEA/NA250(20,3),NA251(20,3)
DIMENSION NP30(20),P91(20,3),P92(20,3),P95(20,15,3),P108(20,3),
1 P109(20,3),P110(20,3),P115(20),P116(20),P340(20,3),
2 P236(20,15),P237(20,15),P257(20,15,3),P279(20,3),
3 P280(20,3),P168(20,3)

```

C

```

IF(IC.EQ.0) GO TO 500
WRITE(6,1000)
1000 FORMAT(1H1)
500 DO 1 I = 1,3
P108(NY,I) = 0.
P109(NY,I) = 0.
P110(NY,I) = 0.
P168(NY,I) = 0.
P279(NY,I) = 0.
P280(NY,I) = 0.
1 P340(NY,I) = 0.
DO 3 I = 1,15
P236(NY,I) = 0.
P237(NY,I) = 0.
DO 2 J = 1,3
2 P257(NY,I,J) = 0.
3 CONTINUE

```

C

NP = 1

C

C CHECK IF THERE IS A NEW A/C TYPE IN PHASE NP

C

```

10 IF(NA250(NY,NP).EQ.1) GO TO 11
IF(NY.NE.1) GO TO 12

```

C

C CUMULATIVE A/C PROCURED THRU LAST YEAR

C

```

11 P168(NY,NP) = T(NP+19)0)
GO TO 15
12 P168(NY,NP) = P168(NY-1,NP) + P92(NY-1,NP) + A111(NY-1,NP)

```

C

```

15 A = (ALOG(T(NP+1907)))/ALOG(2.)) + 1.
B = (P168(NY,NP) + P92(NY,NP) + A111(NY,NP))**A

```

C

C AIRCRAFT INVESTMENT COST

C

$$P108(NY,NP) = T(NP+1904)*ICCO.*(B - P168(NY,NP)**A)$$

C

C RECURRING MODIFICATIONS COST

C

A = A-1.

B = P168(NY,NP) + P92(NY,NP) + A111(NY,NP)

IF(B.EQ.0.) GO TO 17

IF(A.EQ.0.) GO TO 16

P340(NY,NP) = T(NP+1927)\*T(NP+1904)\*1000.\*(P91(NY,NP)+P92(NY,NP))\*

I B\*\*A

GO TO 17

16 P340(NY,NP) = T(NP+1927)\*T(NP+1904)\*1000.\*(P91(NY,NP)+P92(NY,NP))

C

C AIRCRAFT SPARES INVESTMENT COST

C

17 P109(NY,NP) = T(NP+1913)\*P108(NY,NP)

C

C AIRCRAFT AGE INVESTMENT COST

C

P110(NY,NP) = T(NP+1916)\*P108(NY,NP)

C

IF(IC.EQ.0) GO TO 20

WRITE(6,100) NY,NP,P168(NY,NP),P108(NY,NP),P340(NY,NP),

I P109(NY,NP),P110(NY,NP)

100 FORMAT(3H NY,2X,12,2X,2HP,2X,12,2X,4HP168,2X,F10.0,2X,4HP108,2X,

1 F9.0,2X,4HP340,2X,F9.0,2X,4HP109,2X,F9.0,2X,4HP110,2X,F9.0)

C

20 IF(NP.GE.NA7(NY)) GO TO 25

NP = NP + 1

GO TO 10

C

C RESCUE AND RECOVERY AIRCRAFT INVESTMENT COST

C

25 P115(NY) = 0.

C

C SUPPORT AIRCRAFT INVESTMENT COST

C

P116(NY) = 0.

C

NB = 1

C

30 P115(NY) = T(1920)\*1000.\*A146(NY,NB) + P115(NY)

P116(NY) = T(1921)\*1000.\*A147(NY,NB) + P116(NY)

IF(NB.GE.NP30(NY)) GO TO 35

NB = NB + 1

GO TO 30

C

C

35 IF(IC.EQ.0) GO TO 40

WRITE(6,101) NY,P115(NY),P116(NY)

101 FORMAT(3H NY,2X,12,10X,4HP115,2X,F9.0,2X,4HP116,2X,F9.0)

C

40 NP = 1

45 NB = 1

C

C SIMULATOR INVESTMENT COST

C

50 P170 = (P95(NY,NB,NP) + A116(NY,NB,NP))\*T(NP+1921)\*1000.

C

C SIMULATOR SPARES INVESTMENT COST

C

P112 = P170\*T(NP+1924)

```

C
C     P236(NY,NB) = P236(NY,NB) + P170
C
C     SIMULATOR SPARES COST BY BASE
C
C     P237(NY,NB) = P237(NY,NB) + P112
C
C     TOTAL COSTS BY PHASE
C
C     P257(NY,NB,NP) = P257(NY,NB,NP) + P170 + P112
C
C     SIMULATOR COST BY PHASE
C
C     P279(NY,NP) = P279(NY,NP) + P170
C
C     SIMULATOR SPARES COST BY PHASE
C
C     P280(NY,NP) = P280(NY,NP) + P112
C
C
C     IF(IC.EQ.0) GO TO 60
C     WRITE(6,102) NY,NB,NP,P170,P112,P236(NY,NB),P237(NY,NB),
1     P257(NY,NB,NP),P279(NY,NP),P280(NY,NP)
102  FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,2HNBP,2X,12,2X,4HP170,2X,F9.0,
1     2X,4HP112,2X,F9.0,2X,4HP236,2X,E13.6,2X,4HP237,2X,E13.6/
2     25X,4HP257,2X,E13.6,2X,4HP279,2X,E13.6,2X,4HP280,2X,E13.6)
C
C     60 IF(NB.GE.NP30(NY)) GO TO 65
C     NB = NB + 1
C     GO TO 50
C
C     65 IF(NP.GE.NA7(NY)) RETURN
C     NP = NP + 1
C     GO TO 45
C
C     END

```

```

C
C     SUBROUTINE INVCN(NY, NP30, NPP35, P33, P50, P51, P53, P54, P238, P239,
1     P241, P242, P243, P257, P259, P281, P282, P284, P285,
2     P286, PP300, P307, P308, P309, P344, P345, P346, IC)
C     COMMON/ARRAY/T(2625)
C     COMMON/ONE/A1(20,3), A2(20,3), NA7(20), A43(20,3), A44(20,3),
1     A113(20,3), A1C(20)
C     DIMENSION NP30(20), NPP35(20,15), P33(20,15,3), P50(20,15,3),
1     P51(20,15,3), P53(20,15), P54(20,15), P238(20,15),
2     P239(20,15), P241(20,15), P242(20,15), P243(20,15),
3     P257(20,15,3), P259(20,15), P281(20,3), P282(20,3),
4     P284(20,3), P285(20,3), P286(20,3), PP300(20), P307(20),
5     P308(20), P309(20), P344(15,3), P345(15,3), P346(15)
C
C     COMPUTE INVESTMENT COST FOR MANPOWER FOR YEAR NY.
C

```

```

C     IF(IC.EQ.0) GO TO 600
C     WRITE(6,1000)
C     FORMAT(1H1)

```

```

C
600 CC 1001 I = 1,15
    P238(NY,I) = 0.
    P239(NY,I) = 0.
    P241(NY,I) = 0.
    P242(NY,I) = 0.
    P243(NY,I) = 0.
1001 P259(NY,I) = 0.
    CC 1002 I = 1,3
    P281(NY,I) = 0.
    P282(NY,I) = 0.
    P284(NY,I) = 0.
    P285(NY,I) = 0.
1002 P286(NY,I) = 0.
    PP300(NY) = 0.
    P307(NY) = 0.
    P308(NY) = 0.
    P309(NY) = 0.
    IF(NY.NE.1) GO TO 1003
    DD 1004 I = 1,15
    DD 1005 J = 1,3
    P344(I,J) = 0.
1005 P345(I,J) = 0.
1004 P346(I) = 0.
C
1003 NB = 1
    1 NP = 1
    2 IJ = 3*(NB-1)+NP
    P118 = 0.
    P119 = 0.
    P122 = 0.
C CHECK IF BASE NB IS NEW IN YEAR NY.
C
    IF(NPP35(NY,NB).NE.0) GO TO 5
    IF(NY.GT.1) GO TO 10
C
    5 P344(NB,NP) = T(IJ+1938) + T(IJ+1983) + T(IJ+2058)
    10 A = P33(NY,NB,NP)+P50(NY,NB,NP)+P51(NY,NB,NP)
    4 IF(A.LT.P344(NB,NP)) GO TO 15
C
C INCREASE IN MILITARY BY PHASE
C
    P118 = A - P344(NB,NP)
    P344(NB,NP) = P344(NB,NP) + P118
C
C BASE SUPPORT EQUIP. INVEST. COST
C
    6 P113 = P118*T(1937)
C
C STOCKS INVEST. COST BY PHASE
C
    P117 = P118*T(2104)
    GO TO 20
C
    15 P113 = 0.
    P117 = 0.
C
BASE SUPPORT EQUIP. COST BY BASE

```

20  $P239(NY,NB) = P239(NY,NB) + P113$   
 C  
 C STOCKS COST BY BASE  
 C  
 $P241(NY,NB) = P241(NY,NB) + P117$   
 C  
 C BASE SUPPORT EQUIP. COST BY PHASE  
 C  
 $P282(NY,NP) = P282(NY,NP) + P113$   
 C  
 C STOCKS COST BY PHASE  
 C  
 $P284(NY,NP) = P284(NY,NP) + P117$   
 C  
 $IF(NPP35(NY,NB).NE.0) GO TO 25$   
 $IF(NY.GT.1) GO TO 30$   
 C  
 25  $P345(NB,NP) = T(IJ+2058)$   
 30  $IF(P33(NY,NB,NP).LT.P345(NB,NP)) GO TO 34$   
 C  
 C TRAINING EQUIP. INVEST. COST  
 C  
 $P114 = T(1938)*(P33(NY,NB,NP) - P345(NB,NP))$   
 $P345(NB,NP) = P33(NY,NB,NP)$   
 GO TO 35  
 C  
 34  $P114 = 0.$   
 C  
 C TRAINING EQUIP. COST BY BASE  
 C  
 35  $P238(NY,NB) = P238(NY,NB) + P114$   
 C  
 C TRAINING EQUIP. COST BY PHASE  
 C  
 $P281(NY,NP) = P281(NY,NP) + P114$   
 C  
 $IF(NPP35(NY,NB).NE.0) GO TO 40$   
 $IF(NY.GT.1) GO TO 45$   
 C  
 40  $C = P50(NY,NB,NP) - T(IJ+1938)$   
 41  $IF(C.LT.0.) GO TO 50$   
 C  
 C INCREASE IN OFFICERS  
 C  
 $P119 = C$   
 C  
 C TRAINING INVEST. COST FOR OFFICERS  
 C  
 $P120 = P119*T(2105)$   
 C  
 C TRAVEL INVEST. COST FOR OFFICERS  
 C  
 $P121 = P119*T(2106)$   
 GO TO 55  
 C  
 45  $C = P50(NY,NB,NP) - P50(NY-1,NB,NP)$   
 GO TO 41  
 C  
 50  $P120 = 0.$

```

P121 = 0.
C
55 IF(NPP35(NY,NB),NE,0) GO TO 60
   IF(NY.GT.1) GO TO 65
C
60 D = P51(NY,NB,NP) - T(IJ+1983)
61 IF(D.LT.0.) GO TO 70
C
C INCREASE IN AIRMEN
C
   P122 = 0
C
C TRAINING INVESTMENT COST FOR AIRMEN
C
   P123 = P122*T(2107)
C
C TRAVEL INVEST. COST FOR AIRMEN
C
   P124 = P122*T(2108)
   GO TO 75
C
65 C = P51(NY,NB,NP) - P51(NY-1,NB,NP)
   GO TO 61
C
70 P123 = 0.
   P124 = 0.
C
C TRAINING COST BY BASE
C
75 P242(NY,NB) = P242(NY,NB) + P120 + P123
C
C TRAINING COST BY PHASE
C
   P285(NY,NP) = P285(NY,NP) + P120 + P123
C
C TRAVEL COST BY BASE
C
   P243(NY,NB) = P243(NY,NB) + P121 + P124
C
C TRAVEL COST BY PHASE
C
   P286(NY,NP) = P286(NY,NP) + P121 + P124
C
C TOTAL COSTS BY PHASE
C
   P257(NY,NB,NP) = P257(NY,NB,NP)+ P113+P117+P114+P123+P124
1     + P120 + P121
C
C
   IF(IC.EQ.0) GO TO 601
   WRITE(6,500) NY,NB,NP,P344(NB,NP),P118,P113,P117,P345(NB,NP),
1     P114,P119,P120,P121,P122,P123,P124
500 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,2HNP,2X,12,2X,4HP344,2X,F8.0,
2     2X,4HP118,2X,F8.0,2X,4HP113,2X,F8.0,2X,4HP117,2X,F8.0,2X,
3     4HP345,2X,F8.0,2X,4HP114,2X,F8.0/25X,
4     4HP119,2X,F8.0, 2X,4HP120,2X,F8.0,2X,4HP121,2X,F8.0,2X,
5     4HP122,2X,F8.0,2X,4HP123,2X,F8.0,2X,4HP124,2X,F8.0)
   WRITE(6,501) P239(NY,NB),P241(NY,NB),P282(NY,NP),P284(NY,NP),
1     P238(NY,NB),P281(NY,NP),P242(NY,NB),P285(NY,NP),

```

2 P243(NY,NB),P286(NY,NP),P257(NY,NB,NP)  
 501 FORMAT(1H ,24X,4HP239,2X,E13.6,2X,4HP241,2X,E13.6,2X,4HP282,2X,  
 1 E13.6,2X,4HP284,2X,E13.6/25X,4HP238,2X,E13.6,2X,4HP281,2X,  
 2 E13.6,2X,4HP242,2X,E13.6,2X,4HP285,2X,E13.6/25X,4HP243,2X,  
 3 E13.6,2X,4HP286,2X,E13.6,2X,4HP257,2X,E13.6)

C  
 601 IF(NP.GE.NA7(NY)) GO TO 80  
 NP = NP + 1  
 GO TO 2

C  
 80 P125 = 0.  
 P128 = 0.  
 P129 = 0.  
 IF(NPP35(NY,NB).NE.0) GO TO 85  
 IF(NY.GT.1) GO TO 90

C  
 85 P346(NB) = T(NB+2028) + T(NB+2043)  
 90 E = P53(NY,NB) + P54(NY,NB)  
 IF(E.LT.P346(NB)) GO TO 95

C  
 C INCREASE IN MILITARY - NC PHASE

C  
 P125 = E - P346(NB)  
 P346(NB) = P346(NB) + P125

C  
 C BASE SUPT. EQUIP. INVESTMENT COST - NO PHASE

C  
 P126 = P125\*T(1937)

C  
 C STOCKS INVEST. COST - NO PHASE

C  
 P127 = P125\*T(2104)  
 GO TO 100

C  
 95 P126 = 0.  
 P127 = 0.

C  
 C BASE SUPPORT EQUIP. COST BY BASE

C  
 100 P239(NY,NB) = P239(NY,NB) + P126

C  
 C BASE SUPPORT EQUIP. COST NOT ASSIGNED TO PHASE

C  
 PP300(NY) = PP300(NY) + P126

C  
 C STOCKS COST BY BASE

C  
 P241(NY,NB) = P241(NY,NB) + P127

C  
 C STOCKS COST NOT ASSIGNED TO PHASE

C  
 P307(NY) = P307(NY) + P127

C  
 IF(NPP35(NY,NB).NE.0) GO TO 105  
 IF(NY.GT.1) GO TO 110

C  
 C INCREASE IN OFFICERS - NC PHASE

C  
 105 F = P53(NY,NB) - T(NB+2028)

106 IF(F.LT.0.) GO TO 115

P128 = F

TRAINING INVEST. COST FOR OFFICERS - NO PHASE

P130 = P128\*T(2105)

TRAVEL INVEST. COST FOR OFFICERS - NO PHASE

P131 = P128\*T(2106)

GO TO 120

110 F = P53(NY,NB) - P53(NY-1,NB)

GO TO 106

115 P130 = 0.

P131 = 0.

120 IF(NPP35(NY,NB).NE.0) GO TO 125

IF(NY.GT.1) GO TO 130

125 G = P54(NY,NB) - T(NB+2043)

126 IF(G.LT.0.) GO TO 135

INCREASE IN AIRMEN - NO PHASE

P129 = G

TRAIN. INVEST. COST FOR AIRMEN - NO PHASE

P132 = P129\*T(2107)

TRAVEL INVEST. COST FOR AIRMEN - NO PHASE

P133 = P129\*T(2108)

GO TO 140

130 G = P54(NY,NB) - P54(NY-1,NB)

GO TO 126

135 P132 = 0.

P133 = 0.

TRAINING COST BY BASE

140 P242(NY,NB) = P242(NY,NB) + P130 + P132

TRAINING COST NOT ASSIGNED TO PHASE

P308(NY) = P308(NY) + P130 + P132

TRAVEL COST BY BASE

P243(NY,NB) = P243(NY,NB) + P131 + P133

TRAVEL COST NOT ASSIGNED TO PHASE

P309(NY) = P309(NY) + P131 + P133



```

C
C TOTAL COSTS NOT ASSIGNED TO PHASE
C
C P259(NY,NB) = P259(NY,NB)+P126+P127+ P13C+P131+P132+P133
C
C IF(1C.EQ.0) GO TO 602
WRITE(6,502) NY,NB,P346(NB),P125,P126,P127,P128,P130,P131,
2 P129,P132,P133
502 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,4HP346,2X,F8.0,2X,4HP125,2X,
1 F8.0,2X,4HP126,2X,F8.0,2X,4HP127,2X,F8.0,2X,4HP128,2X,
2 F8.0,2X,4HP130,2X,F8.0/
3 17X,4HP131,2X,F8.0,2X,4HP129,2X,F8.0,2X,4HP132,2X,F8.0,2X,
4 4HP133,2X,F8.0)
WRITE(6,503) P239(NY,NB),PP300(NY),P241(NY,NB),P307(NY),
1 P242(NY,NB),P308(NY),P243(NY,NB),P309(NY),P259(NY,NB)
503 FORMAT(1H ,16X,4HP239,2X,E13.6,2X,5HPP300,2X,E13.6,2X,4HP241,2X,
1 E13.6,2X,4HP307,2X,E13.6,2X,4HP242,2X,E13.6/ 17X,
2 4HP308,2X,E13.6,2X,4HP243,2X,E13.6,2X,4HP309,2X,E13.6,2X,
3 4HP259,2X,E13.6)
C
602 IF(NB.GE.NP30(NY)) RETURN
NB = NB + 1
GO TO 1
C
END

SUBROUTINE DPERC(NY, NP30, P10, P33, P50, P51, P52, P53, P54, P55, P6C, P94,
1 P95, P193, P167, P234, P260, P261, P244, P245, P246, P247,
2 P248, P249, P250, P251, P252, P253, P254, P255, P256, P257,
3 P259, P287, P288, P289, P290, P291, P292, P293, P294,
4 P295, P296, P297, P298, P299, P304, P305, P306, P310,
5 P311, P312, P313, P314, P315, P316, P317, P318,
6 P103, P25, 1C)
DIMENSION NP30(NY), P10(20), P33(20,15,3), P50(20,15,3), P51(20,15,3),
1 P52(20,15,3), P53(20,15), P54(20,15), P55(20,15),
2 P60(20,15,3), P94(20,15,3), P95(20,15,3), P193(20,3),
3 P167(20,15), P234(20,15), P260(20,15), P261(20,15),
4 P244(20,15), P245(20,15), P246(20,15), P247(20,15),
5 P248(20,15), P249(20,15), P250(20,15), P251(20,15),
6 P252(20,15), P253(20,15), P254(20,15), P255(20,15),
7 P256(20,15), P257(20,15,3), P259(20,15), P287(20,3),
8 P288(20,3), P289(20,3), P290(20,3), P291(20,3), P292(20,3),
9 P293(20,3), P294(20,3), P295(20,3), P296(20,3), P297(20,3),
A P298(20,3), P299(20,3), P304(20), P305(20), P306(20),
B P310(20), P311(20), P312(20), P313(20), P314(20), P315(20),
C P316(20), P317(20), P318(20), P103(20,15), P25(22)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3), A2(20,3), NA7(20), A43(20,3), A44(20,3),
1 A113(20,3), A1C(20)
COMMON/THREE/A17(15,3), A18(20,15,3), NA15(20,3)
COMMON/SEVEN/A139(20,3), A178(20,15), A179(20,15)

```

COMPUTE OPERATING COST FOR YEAR NY.

IF(IC.EQ.0) GO TO 500  
 WRITE(6,1000)  
 1000 FORMAT(1H1)  
 500 NB = 1  
 1 NP = 1

C  
 C OFFICERS PAY AND ALLOWANCES BY PHASE  
 C  
 C 2 P138 = T(2361)\*(P50(NY,NB,NP) + P33(NY,NB,NP))  
 C  
 C OFFICERS PAY AND ALLOWANCE COST BY BASE  
 C  
 C P251(NY,NB) = P251(NY,NB) + P138  
 C  
 C OFFICERS PAY AND ALLOWANCE BY PHASE  
 C  
 C P294(NY,NP) = P294(NY,NP) + P138  
 C  
 C AIRMEN PAY AND ALLOWANCE BY PHASE  
 C  
 C P139 = T(2362)\*P51(NY,NB,NP)  
 C  
 C AIRMEN PAY AND ALLOWANCE COST BY BASE  
 C  
 C P252(NY,NB) = P252(NY,NB) + P139  
 C  
 C AIRMEN PAY AND ALLOWANCE COST BY PHASE  
 C  
 C P295(NY,NP) = P295(NY,NP) + P139  
 C  
 C CIVILIAN PAY BY PHASE  
 C  
 C P140 = T(2363)\*P52(NY,NB,NP)  
 C  
 C CIVILIAN PAY COST BY BASE  
 C  
 C P253(NY,NB) = P253(NY,NB) + P140  
 C  
 C CIVILIAN PAY COST BY PHASE  
 C  
 C P296(NY,NP) = P296(NY,NP) + P140  
 C  
 C ANNUAL TRAINING COST FOR OFFICERS BY PHASE  
 C  
 C P141 = T(2105)\*T(2364)\*P50(NY,NB,NP)  
 C  
 C ANNUAL TRAVEL COST FOR OFFICERS BY PHASE  
 C  
 C P142 = T(2106)\*T(2364)\*P50(NY,NB,NP)  
 C  
 C ANNUAL TRAINING COST FOR AIRMEN BY PHASE  
 C  
 C P143 = T(2107)\*T(2365)\*P51(NY,NB,NP)  
 C  
 C ANNUAL TRAVEL COST FOR AIRMEN BY PHASE  
 C  
 C P144 = T(2108)\*T(2365)\*P51(NY,NB,NP)

P254(NY,NB) = P254(NY,NB) + P141 + P143

TRAVEL COST BY BASE

P255(NY,NB) = P255(NY,NB) + P142 + P144

TRAINING COST BY PHASE

P297(NY,NP) = P297(NY,NP) + P141 + P143

TRAVEL COST BY PHASE

P298(NY,NP) = P298(NY,NP) + P142 + P144

FACIL. O AND M COST BY PHASE

P146 = T(2381)\*(P50(NY,NB,NP) + P51(NY,NB,NP) + P33(NY,NB,NP))

FACIL. MAINT. COST BY BASE

P249(NY,NB) = P249(NY,NB) + P146

FACIL. MAINT. COST BY PHASE

P292(NY,NP) = P292(NY,NP) + P146

SUPPLIES AND SERVICES COST BY PHASE

P147 = T(NB+2516)\*(P50(NY,NB,NP) + P51(NY,NB,NP) + P33(NY,NB,NP))

SUPPLIES AND SERVICES COST BY BASE

P256(NY,NB) = P256(NY,NB) + P147

SUPPLIES AND SERVICES COST BY PHASE

P299(NY,NP) = P299(NY,NP) + P147

TOTAL COSTS BY PHASE

P257(NY,NB,NP) = P257(NY,NB,NP) + P138 + P139 + P140 + P141 +  
 1 P142 + P143 + P144 + P146 + P147

IF(IC.EQ.0) GO TO 501

WRITE(6,100) NY,NB,NP,P138,P139,P140,P141,P142,P143,P144,P146,P147  
 100 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,2HNPN,2X,12,2X,4HP138,2X,F8.0,  
 1 2X,4HP139,2X,F8.0,2X,4HP140,2X,F8.0,2X,4HP141,2X,F8.0,2X,  
 2 4HP142,2X,F8.0/25X,4HP143,2X,F8.0,2X,4HP144,2X,F8.0,2X,  
 3 4HP146,2X,F8.0,2X,4HP147,2X,F8.0)  
 WRITE(6,110) P251(NY,NB),P294(NY,NP),P252(NY,NB),P295(NY,NP),  
 1 P253(NY,NB),P296(NY,NP),P254(NY,NB),P297(NY,NP),  
 2 P255(NY,NB),P298(NY,NP),P249(NY,NB),P292(NY,NP),  
 3 P256(NY,NB),P299(NY,NP),P257(NY,NB,NP)  
 110 FORMAT(1H ,24X,4HP251,2X,E13.6,2X,4HP294,2X,E13.6,2X,4HP252,2X,  
 1 E13.6,2X,4HP295,2X,E13.6,2X,4HP253,2X,E13.6/25X,4HP296,2X,  
 E13.6,2X,4HP254,2X,E13.6,2X,4HP297,2X,E13.6,2X,4HP255,2X,  
 E13.6,2X,4HP298,2X,E13.6/25X,4HP249,2X,E13.6,2X,4HP292,2X,

4 E13.6, 2X, 4HP256, 2X, E13.6, 2X, 4HP259, 2X, E13.6, 2X, 4HF257, 2X,  
5 E13.6)

C

501 IF(NP.GE.NA7(NY)) GO TO 5  
NP = NP + 1  
GO TO 2

C

C OFFICER PAY AND ALLOWANCES -- NO PHASE

C

5 P148 = T(2361)\*P53(NY,NB)  
P251(NY,NB) = P251(NY,NB) + P148

C

C OFFICERS PAY AND ALLOWANCES COST NOT ASSIGNABLE TO PHASE

C

P313(NY) = P313(NY) + P148

C

C AIRMEN PAY AND ALLOWANCES - NO PHASE

C

P149 = T(2362)\*P54(NY,NB)  
P252(NY,NB) = P252(NY,NB) + P149

C

C AIRMEN PAY AND ALLOWANCES COST NOT ASSIGNABLE TO PHASE

C

P314(NY) = P314(NY) + P149

C

C CIVILIAN PAY - NO PHASE

C

P150 = T(2363)\*P55(NY,NB)  
P253(NY,NB) = P253(NY,NB) + P150

C

C CIVILIAN PAY COST NOT ASSIGNABLE BY PHASE

C

P315(NY) = P315(NY) + P150

C

C ANNUAL TRAINING COST FOR OFFICERS - NO PHASE

C

P151 = T(2105)\*T(2364)\*P53(NY,NB)

C

C ANNUAL TRAVEL COST FOR OFFICERS - NO PHASE

C

P152 = T(2106)\*T(2364)\*P54(NY,NB)

C

C ANNUAL TRAVEL COST FOR STUDENTS - NO PHASE

C

P153 = T(2106)\*(P193(NY,1) + P1C(NY))\*(P103(NY,NB)/P25(NY)),

C

C ANNUAL TRAINING COST FOR AIRMEN - NO PHASE

C

P154 = T(2107)\*T(2365)\*P54(NY,NB)

C

C ANNUAL TRAVEL COST FOR AIRMEN - NO PHASE

C

P155 = T(2108)\*T(2365)\*P54(NY,NB)  
P254(NY,NB) = P254(NY,NB) + P151 + P154  
P255(NY,NB) = P255(NY,NB) + P152 + P153 + P155

C

C ANNUAL TRAINING COST NOT ASSIGNABLE TO PHASE

C

P316(NY) = P316(NY) + P151 + P154

ANNUAL TRAVEL COST NOT ASSIGNABLE TO PHASE

$$P317(NY) = P317(NY) + P152 + P153 + P155$$

FACIL. O AND M COST - NO PHASE

$$P156 = T(NB+2365)*1000. + T(2381)*(P53(NY,NB) + P54(NY,NB))$$

$$P249(NY,NB) = P249(NY,NB) + P156$$

FACIL. O AND M COST NOT ASSIGNABLE TO PHASE

$$P312(NY) = P312(NY) + P156$$

SUPPLIES AND SERVICES COST - NO PHASE

$$P157 = T(NB+2516)*(P53(NY,NB) + P54(NY,NB))$$

$$P256(NY,NB) = P256(NY,NB) + P157$$

SUPPLIES AND SERVICES COST NOT ASSIGNABLE TO PHASE

$$P318(NY) = P318(NY) + P157$$

$$P259(NY,NB) = P259(NY,NB) + P148 + P149 + P150 + P151 + P152 +$$

$$P153 + P154 + P155 + P156 + P157$$

IF (TC.EQ.0) GC TO 502

WRITE(6,101) NY,NB,P148,P149,P150,P151,P152,P153,P154,P155,P156,

P157

101 FORMAT(3H NY,2X,12,2X,2HNR,2X,12,2X,4HP148,2X,F8.0,2X,4HP149,2X,  
1 F8.0,2X,4HP150,2X,F8.0,2X,4HP151,2X,F8.0,2X,4HP152,2X,F8.0/  
2 17X,4HP153,2X,F8.0,2X,4HP154,2X,F8.0,2X,4HP155,2X,F8.0,2X,  
3 4HP156,2X,F8.0,2X,4HP157,2X,F8.0)

WRITE(6,111) P251(NY,NB),P313(NY),P252(NY,NB),P314(NY),

P253(NY,NB),P315(NY),P254(NY,NB),P255(NY,NB),

P316(NY),P317(NY),P249(NY,NB),P312(NY),P256(NY,NB),

P318(NY),P259(NY,NB)

111 FORMAT(1H ,16X,4HP251,2X,E13.6,2X,4HP313,2X,E13.6,2X,4HP252,2X,  
1 E13.6,2X,4HP314,2X,E13.6,2X,4HP253,2X,E13.6/17X,4HP315,2X,  
2 E13.6,2X,4HP254,2X,E13.6,2X,4HP255,2X,E13.6,2X,4HP316,2X,  
3 E13.6,2X,4HP317,2X,E13.6/17X,4HP249,2X,E13.6,2X,4HP312,2X,  
4 E13.6,2X,4HP256,2X,E13.6,2X,4HP318,2X,E13.6,2X,4HP259,2X,  
5 E13.6)

502 NP = 1

10 P158 = 0.

IF (NALS(NY,NP).NE.1) GC TO 15

CONTRACT TRAINING COST

$$IJ = 3*(NR-1) + NP$$

$$P158 = T(IJ+247)*P60(NY,NB,NP)$$

CONTRACTED FLY. TRAINING COST BY BASE

$$P250(NY,NB) = P250(NY,NB) + P158$$

CONTRACT FLY. TRAINING COST BY PHASE

$$P293(NY, NP) = P293(NY, NP) + P158$$

DEPOT MAINTENANCE COST

$$15 P159 = T(NP+2472)*P60(NY, NB, NP)$$

DEPOT MAINTENANCE COST BY BASE

$$P244(NY, NB) = P244(NY, NB) + P159$$

DEPOT MAINTENANCE COST BY PHASE

$$P287(NY, NP) = P287(NY, NP) + P159$$

BASE MATERIAL COST

$$P160 = T(NP+2475)*P60(NY, NB, NP)$$

BASE MATERIAL COST BY BASE

$$P245(NY, NB) = P245(NY, NB) + P160$$

BASE MATERIAL COST BY PHASE

$$P288(NY, NP) = P288(NY, NP) + P160$$

CONTRACT MAINTENANCE COST

$$IJ = 3*(NB-1) + NP$$

$$P198 = T(IJ+23F1)*P60(NY, NB, NP)$$

CONTRACT MAINTENANCE COST BY BASE

$$P246(NY, NB) = P246(NY, NB) + P198$$

CONTRACT MAINTENANCE COST BY PHASE

$$P289(NY, NP) = P289(NY, NP) + P198$$

PDL COST

$$P161 = T(NP+2473)*P60(NY, NB, NP)$$

PDL COST BY BASE

$$P247(NY, NB) = P247(NY, NB) + P161$$

PDL COST BY PHASE

$$P290(NY, NP) = P290(NY, NP) + P161$$

SIMULATOR O AND M COST

$$P162 = T(NP+2481)*P94(NY, NB, NP) + P55(NY, NB, NP)$$

SIMULATOR O AND M COST BY BASE

$$P248(NY, NB) = P248(NY, NB) + P162$$

C SIMULATOR O AND M COST BY PHASE

C

F291(NY,NP) = F291(NY,NP) + P162

P257(NY,NB,NP)=P257(NY,NB,NP)+P158+P159+P160+P198+P161+P162

C

IF(IC.EQ.0) GO TO 503

WRITE(6,102) NY,NB,NP,P158,P159,P160,P198,P161,P162

102 FORMAT(3F,2X,12,2X,2HN,2X,12,2X,2HNP,2X,12,2X,4HP158,2X,F8.0,

1 2X,4HP159,2X,F8.0,2X,4HP160,2X,F8.0,2X,4HP198,2X,F8.0,2X,

2 4HP161,2X,F8.0,2X,4HP162,2X,F8.0)

WRITE(6,112) P250(NY,NB),P293(NY,NP),P244(NY,NB),P287(NY,NP),

1 P245(NY,NB),P288(NY,NP),P246(NY,NB),P289(NY,NP),

2 P247(NY,NB),P290(NY,NP),P248(NY,NB),P291(NY,NP),

3 P257(NY,NB,NP)

112 FORMAT(1H,24X,4HP250,2X,E13.6,2X,4HP293,2X,E13.6,2X,4HP244,2X,

1 E13.6,2X,4HP287,2X,E13.6,2X,4HP245,2X,E13.6/25X,4HP288,2X,

2 E13.6,2X,4HP246,2X,E13.6,2X,4HP289,2X,E13.6,2X,4HP247,2X,

3 E13.6,2X,4HP290,2X,E13.6/25X,4HP248,2X,E13.6,2X,4HP291,2X,

4 E13.6,2X,4HP257,2X,E13.6)

C

503 IF(NP.GE.NA7(NY)) GO TO 20

NP = NP + 1

GO TO 10

C

C FLY. HRS./YEAR FOR SUPPORT A/C

C

20 P166 = T(NB+2484)\*P167(NY,NB)

C

C FLY. HRS./YEAR FOR RESCUE AND RECOVERY A/C

C

P262 = T(NB+2459)\*P234(NY,NB)

C

C O AND M COST - SUPPORT A/C

C

P260(NY,NB) = T(2515)\*P166

C

C O AND M COST - R AND R A/C

C

P261(NY,NB) = T(2516)\*P262

C

C O AND M COST - SUPPORT A/C - NOT ASSIGNABLE TO PHASE

C

P310(NY) = P310(NY) + P260(NY,NB)

C

C O AND M COST - R AND R A/C - NOT ASSIGNABLE TO PHASE

C

P311(NY) = P311(NY) + P261(NY,NB)

C

P259(NY,NB) = P259(NY,NB) + P260(NY,NB) + P261(NY,NB) +

1 1000.\*(T(NB+2315)+T(NB+2330)+T(NB+2345)) + A178(NY,NB) +

2 A179(NY,NB)

C

C FLY. TRAINING BASIC BLDG. COST NOT ASSIGNABLE TO PHASE

C

P304(NY) = P304(NY) + A179(NY,NB)

C

C HOUSING COST NOT ASSIGNABLE TO PHASE

C

P305(NY) = P305(NY) + 1000.\*(T(NB+2315)+T(NB+2330)+T(NB+2345))

```

C
C OTHER COSTS NOT ASSIGNABLE TO PHASE
C
C     P306(NY) = P306(NY) + A178(NY,NB)
C
C     IF(IC.EQ.0) GO TO 504
C     WRITE(6,103) NY,NB,P166,P262,P260(NY,NB),P261(NY,NB)
103  FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP166,2X,F8.0,2X,4HP262,2X,
1     F8.0,2X,4HP260,2X,F8.0,2X,4HP261,2X,F8.0)
C     WRITE(6,113) P310(NY),P311(NY),P259(NY,NB),P304(NY),P305(NY),
1     P306(NY)
113  FORMAT(1H ,16X,4HP310,2X,E13.6,2X,4HP311,2X,E13.6,2X,4HP259,2X,
1     E13.6/17X,4HP304,2X,E13.6,2X,4HP305,2X,E13.6,2X,4HP306,2X,
2     E13.6)
C
C 504 IF(NB.GE.NP30(NY)) RETURN
C     NB = NB + 1
C     GO TO 1
C
C     END

```

```

SUBROUTINE INVCF(NY,NP30,NPP35,P36,P99,P102,P135,P136,P137,P240,
1     P257,P259,P283,P301,P302,P303,IC)
COMMON/ARRAY/T(2625)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1     A113(20,3),A10(20)
COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
DIMENSION NP30(20),NPP35(20,15),P36(20,15,3),P99(20,15),
1     P102(20,15),P135(20,15),P136(20,15),P137(20,15),
2     P240(20,15),P283(20,3),P301(20),P302(20),P303(20),
3     P257(20,15,3),P259(20,15)

```

```

C
C COMPUTE INVESTMENT COST FOR FACILITIES FOR YEAR NY.
C

```

```

C     IF(IC.EQ.0) GO TO 500
C     WRITE(6,1000)
1000  FORMAT(1H1)
500  DO 100 I = 1,15
C     P 35(NY,I) = 0.
C     P136(NY,I) = 0.
C     P240(NY,I) = 0.
100  P137(NY,I) = 0.
C     DO 101 I = 1,3
101  P283(NY,I) = 0.
C     P301(NY) = 0.
C     P302(NY) = 0.
C     P303(NY) = 0.

```

```

C
C     NR = 1
1     NP = 1

```

```

C
C RUNWAY INVESTMENT COST
C

```

```

2  IJ = 3*(NR-1) + NP
P134 = P36(NY,NB,NP)*T(IJ+2173)*1000. + T(IJ+2128)*1000.

```



```

C
C RUNWAYS COST BY BASE
C
C     P240(NY,NB) = P240(NY,NB) + P134
C
C TOTAL COST BY BASE AND PHASE
C
C     P257(NY,NB,NP) = P257(NY,NB,NP) + P134
C
C RUNWAYS COST BY PHASE
C
C     P283(NY,NP) = P283(NY,NP) + P134
C
C     IF(TC.EQ.0) GO TO 501
C     WRITE(3,3) NY,NB,NP,P134,P240(NY,NB),P257(NY,NB,NP),P283(NY,NP)
3  FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP134,2X,E13.6,
1     2X,4HP240,2X,E13.6,2X,4HP257,2X,E13.6,2X,4HP283,2X,E13.6)
501 IF(NP.GE.NA7(NY)) GO TO 5
    NP = NP + 1
    GO TO 2
C
C ADDITIONAL UPT BASE INVESTMENT COST
C
C     5 IF(NPP35(NY,NB).EQ.0) P135(NY,NB) = C.
C     IF(NPP35(NY,NB).EQ.1) P135(NY,NB) = T(NB+2233)*1000.
C     IF(NPP35(NY,NB).EQ.2) P135(NY,NB) = T(NB+2218)*1000.
C
C NEW BASE CONVERSION COST NOT ASSIGNABLE TO PHASE
C
C     P301(NY) = P301(NY) + P135(NY,NB)
C
C SIMULATOR AREA INVESTMENT COST
C
C     A = T(2280)
C     IF(P99(NY,NB).EQ.0.) GO TO 6
C     IF(A.GT.0.) B = (P99(NY,NB)/T(2284))*A
C     IF(A.EQ.0.) B = 1.
C     IF(A.LT.0.) B = (T(2284)/P99(NY,NB))*(-A)
C     P136(NY,NB) = T(NB+2263)*1000. + T(2282)*P99(NY,NB)*(T(2279)*
1  B + T(2281))
C     GO TO 7
C     6 P136(NY,NB) = T(NB+2263)*1000.
C
C CLASSROOM AREA INVESTMENT COST
C
C     7 IF(P102(NY,NB).EQ.0.) GO TO 8
C     IF(A.GT.0.) C = (P102(NY,NB)/T(2285))*A
C     IF(A.EQ.0.) C = 1.
C     IF(A.LT.0.) C = (T(2285)/P102(NY,NB))*(-A)
C     P137(NY,NB) = T(NB+2248)*1000. + T(2283)*P102(NY,NB)*(T(2279)*
1  C + T(2281))
C     GO TO 9
C     8 P137(NY,NB) = T(NB+2248)*1000.
C
C SIMULATOR BLDG. COST NOT ASSIGNABLE TO PHASE
C
C     9 P302(NY) = P302(NY) + P136(NY,NB)
C CLASSROOM BLDG. COST NOT ASSIGNABLE TO PHASE

```

```

C      P303(NY) = P303(NY) + P137(NY,NB)
C
C      TOTAL COSTS NOT ASSIGNABLE TO PHASE
C
C      P259(NY,NB) = P259(NY,NB) + P135(NY,NB) + P136(NY,NB) + P137(NY,NB)
C
C      IF(IC.EQ.0) GO TO 502
C      WRITE(6,10) NY,NB,P135(NY,NB),P136(NY,NB),P137(NY,NB),P301(NY),
C      1      P302(NY),P303(NY),P259(NY,NB)
C      10 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,4HP135,2X,E13.6,2X,4HP136,2X,
C      1      E13.6,2X,4HP137,2X,E13.6,2X,4HP301,2X,E13.6/17X,4HP302,2X,
C      2      E13.6,2X,4HP303,2X,E13.6,2X,4HP259,2X,E13.6)
C
C      502 IF(NB.GE.NP30(NY)) RETURN
C      NB = NB + 1
C      GO TO 1
C
C      END

```

```

SUBROUTINE ZERO1(NY,P244,P245,P246,P247,P248,P249,P250,P251,
1      P252,P253,P254,P255,P256,P287,P288,P289,
2      P290,P291,P292,P293,P294,P295,P296-P297,
3      P298,P299,P304,P305,P306,P310,P311,P312,P313,
4      P314,P315,P316,P317,P318)
DIMENSION P244(20,15),P245(20,15),P246(20,15),P247(20,15),
1      P248(20,15),P249(20,15),P250(20,15),P251(20,15),
2      P252(20,15),P253(20,15),P254(20,15),P255(20,15),
3      P256(20,15),P287(20,3),P288(20,3),
4      P289(20,3),P290(20,3),P291(20,3),P292(20,3),P293(20,3),
5      P294(20,3),P295(20,3),P296(20,3),P297(20,3),P298(20,3),
6      P299(20,3),P304(20),P305(20),P306(20),
7      P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
8      P316(20),P317(20),P318(20)

```

```

C
C      SET TO ZERO ACCUMULATING VARIABLES USED IN SUBROUTINE OPERC.
C

```

```

I = NY
DO 10 J = 1,15
P244(I,J) = 0.
P245(I,J) = 0.
P246(I,J) = 0.
P247(I,J) = 0.
P248(I,J) = 0.
P249(I,J) = 0.
P250(I,J) = 0.
P251(I,J) = 0.
P252(I,J) = 0.
P253(I,J) = 0.
P254(I,J) = 0.
P255(I,J) = 0.
P256(I,J) = 0.
10 CONTINUE
DO 15 K = 1,3
P287(I,K) = 0.

```

```

P288(I,K) = 0.
P289(I,K) = 0.
P290(I,K) = 0.
P291(I,K) = 0.
P292(I,K) = 0.
P293(I,K) = 0.
P294(I,K) = 0.
P295(I,K) = 0.
P296(I,K) = 0.
P297(I,K) = 0.
P298(I,K) = 0.
15 P299(I,K) = 0.
P304(I) = 0.
P305(I) = 0.
P306(I) = 0.
P310(I) = 0.
P311(I) = 0.
P312(I) = 0.
P313(I) = 0.
P314(I) = 0.
P315(I) = 0.
P316(I) = 0.
P317(I) = 0.
P318(I) = 0.

```

C

```

RETURN
END

```

```

SUBROUTINE COSTB(NY, NP30, P108, P109, P110, P115, P116, P340, P135, P136,
1          P137, P236, P237, P238, P239, P240, P241, P242, P243,
2          P244, P245, P246, P247, P248, P249, P250, P251, P252,
3          P253, P254, P255, P256, P260, P261, P259, P258, P263,
4          P264, P265, P266, P267, P268, P269, P270, P271, P272,
5          P273, P274, P341, P257, IC)
COMMON/ARRAY/T(2625)
COMMON/CNE/A1(20,3), A2(20,3), NA7(20), A43(20,3), A44(20,3),
1          A113(20,3), A10(20)
COMMON/SEVEN/A139(20,3), A178(20,15), A179(20,15)
DIMENSION NP30(20), P108(20,3), P109(20,3), P110(20,3), P115(20),
1          P116(20), P340(20,3), P135(20,15), P136(20,15), P137(20,15),
2          P236(20,15), P237(20,15), P238(20,15), P239(20,15),
3          P240(20,15), P241(20,15), P242(20,15), P243(20,15),
4          P244(20,15), P245(20,15), P246(20,15), P247(20,15),
5          P248(20,15), P249(20,15), P250(20,15), P251(20,15),
6          P252(20,15), P253(20,15), P254(20,15), P255(20,15),
7          P256(20,15), P260(20,15), P261(20,15), P259(20,15),
8          P258(20,15), P263(20,15), P264(20,15), P265(20,15),
9          P266(20), P267(20), P268(20), P269(20), P270(20,3),
A          P271(20), P272(20), P273(20), P274(20), P341(20),
B          P257(20,15,3)

```

C

C ACCUMULATE COSTS BY BASE

```

IF(IC.EQ.0) GO TO 500
WRITE(6,1000)

```

```

1000 FORMAT(1H1)
C
  500 DO 1001 I = 1,15
      P250(NY,I) = 0.
      P263(NY,I) = 0.
      P264(NY,I) = 0.
1001 P265(NY,I) = 0.
      DO 1002 I = 1,3
1002 P270(NY,I) = 0.
      P266(NY) = 0.
      P267(NY) = 0.
      P268(NY) = 0.
      P269(NY) = 0.
      P271(NY) = 0.
      P272(NY) = 0.
      P273(NY) = 0.
      P274(NY) = 0.
      P341(NY) = 0.
C
  1 NP = 1
C
C TRAINING A/C COST NOT ASSIGNABLE TO BASE
C
  2 P266(NY) = P266(NY) + P108(NY,NP)
C
C TRAINING A/C SPARES COST NOT ASSIGNABLE TO BASE
C
  P267(NY) = P267(NY) + P109(NY,NP)
C
C AEROSPACE GROUND EQUIP. COST NOT ASSIGNABLE TO BASE
C
  P268(NY) = P268(NY) + P110(NY,NP)
C
C RDT AND E COST NOT ASSIGNABLE TO BASE
C
  P269(NY) = P269(NY) + A139(NY,NP)
C
C RECURRING MODIFICATIONS COST NOT ASSIGNABLE TO BASE
C
  P341(NY) = P341(NY) + P340(NY,NP)
C
C TOTAL COST BY PHASE NOT ASSIGNABLE TO BASE
C
  P270(NY,NP) = P108(NY,NP) + P109(NY,NP) + P110(NY,NP) +
1    A139(NY,NP) + P340(NY,NP)
C
C TOTAL COST (NOT ASSIGNABLE TO BASE)
C
  P272(NY) = P272(NY) + P270(NY,NP)
C
  IF(IC.EQ.0) GO TO 501
  WRITE(6,100) NY,NP, P266(NY),P267(NY),P268(NY),P269(NY),
1    P341(NY),P270(NY,NP), P272(NY)
100 FORMAT(3H NY,2X,I2,2X,2HNP,2X,I2,2X, 4HP266,2X,E13.6,
1    2X,4HP267,2X,E13.6,2X,4HP268,2X,E13.6,2X,4HP269,2X,E13.6/
2    25X,4HP341,2X,E13.6,2X,4HP270,2X,E13.6,2X,4HP272,2X,E13.6)
C
  IF(NP.GE.NA7(NY)) GO TO 5
  NP = NP + 1

```

GO TO 2

C  
C TOTAL COST NOT ASSIGNABLE TO BASE OR PHASE

C  
5 P271(NY) = P115(NY) + P116(NY)  
P273(NY) = P272(NY) + P271(NY)

C  
C INVESTMENT COST - NO BASE

C  
P274(NY) = P266(NY) + P267(NY) + P268(NY) + P115(NY) + P116(NY)

C  
IF(IC.EQ.0) GO TO 502  
WRITE(6,102) NY,P271(NY),P273(NY),P274(NY)  
102 FORMAT(3H NY,2X,12,10X,4HP271,2X,E13.6,2X,4HP273,2X,E13.6,2X,  
1 4HP274,2X,E13.6)

C  
502 NB = 1  
3 DC 4 NP = 1,3

C  
C TOTAL COST BY BASE

C  
4 P258(NY,NB) = P258(NY,NB) + P257(NY,NB,NP)

C  
P258(NY,NB) = P258(NY,NB) + P259(NY,NB)

C  
C INVESTMENT COST BY BASE

C  
P263(NY,NB) = P236(NY,NB) + P237(NY,NB) + P238(NY,NB) +  
1 P239(NY,NB) + P240(NY,NB) + P241(NY,NB) + P242(NY,NB) +  
2 P243(NY,NB) + P135(NY,NB) + P136(NY,NB) + P137(NY,NB) +  
3 A178(NY,NB) + A179(NY,NB) + 1CCC.\*(T(NB+2315) + T(NB+2330) +  
4 T(NB+2345))

C  
C OPERATING COST BY BASE

C  
P264(NY,NB) = P244(NY,NB) + P245(NY,NB) + P246(NY,NB) +  
1 P247(NY,NB) + P248(NY,NB) + P249(NY,NB) + P250(NY,NB) +  
2 P251(NY,NB) + P252(NY,NB) + P253(NY,NB) + P254(NY,NB) +  
3 P255(NY,NB) + P256(NY,NB) + P260(NY,NB) + P261(NY,NB)

C  
C HOUSING COST

C  
P265(NY,NB) = 1000.\*(T(NB+2315) + T(NB+2330) + T(NB+2345))

C  
IF(IC.EQ.0) GO TO 503  
WRITE(6,101) NY,NB,P258(NY,NB),P263(NY,NB),P264(NY,NB),P265(NY,NB)  
101 FORMAT(3H NY,2X,12,2X,2HNB,2X,12,2X,4HP258,2X,E13.6,2X,4HP263,2X,  
1 E13.6,2X,4HP264,2X,E13.6,2X,4HP265,2X,E13.6)

C  
503 IF(NB.GE.NP30(NY)) RETURN  
NB = NB + 1  
GO TO 3

C  
END

```

SUBROUTINE COSTP(NY,      P108,P109,P110,P115,P116,P279,P280,P261,
1      P282,P283,P284,P285,P286,P287,P288,P289,P290,
2      P291,P292,P293,P294,P295,P296,P297,P298,P299,
3      P300,P301,P302,P303,P304,P305,P306,P307,P308,
4      P309,P310,P311,P312,P313,P314,P315,P316,P317,
5      P318,P340,P276,P277,P278,P332,P333,P334,P335,
6      P319,P320,P321, IC)

```

```

COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),

```

```

1      A113(20,3),A1C(20)

```

```

COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)

```

```

DIMENSION      P108(20,3),P109(20,3),P110(20,3),P115(20),

```

```

1      P116(20),P279(20,3),P280(20,3),P281(20,3),P282(20,3),
2      P283(20,3),P284(20,3),P285(20,3),P286(20,3),P287(20,3),
3      P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
4      P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
5      P298(20,3),P299(20,3),P300(20),P301(20),P302(20),
6      P303(20),P304(20),P305(20),P306(20),P307(20),P308(20),
7      P309(20),P310(20),P311(20),P312(20),P313(20),P314(20),
8      P315(20),P316(20),P317(20),P318(20),P340(20,3),
9      P276(20,3), P277(20,3),P278(20,3),P332(20),P333(20),
A      P334(20),P335(20),P319(20),P320(20),P321(20)

```

C

C ACCUMULATE COSTS BY PHASE

C

```

IF(IC.EQ.0) GO TO 600

```

```

WRITE(6,1000)

```

```

1000 FORMAT(1H1)

```

C

```

600 DO 1001 I = 1,3

```

```

P276(NY,I) = 0.

```

```

P277(NY,I) = 0.

```

```

1001 P278(NY,I) = 0.

```

```

P319(NY) = 0.

```

```

P320(NY) = 0.

```

```

P321(NY) = 0.

```

```

P332(NY) = 0.

```

```

P333(NY) = 0.

```

```

P334(NY) = 0.

```

```

P335(NY) = 0.

```

C

```

NP = 1

```

C

C INVESTMENT COST BY PHASE

C

```

1 P276(NY,NP) = P108(NY,NP) + P109(NY,NP) + P110(NY,NP) +

```

```

1      P279(NY,NP) + P280(NY,NP) + P281(NY,NP) +

```

```

2      P282(NY,NP) + P283(NY,NP) + P284(NY,NP) +

```

```

3      P285(NY,NP) + P286(NY,NP)

```

C

C OPERATING COST BY PHASE

C

```

P277(NY,NP) = P287(NY,NP) + P288(NY,NP) + P289(NY,NP) +

```

```

1      P290(NY,NP) + P291(NY,NP) + P292(NY,NP) +

```

```

2      P293(NY,NP) + P294(NY,NP) + P295(NY,NP) +

```

```

3      P296(NY,NP) + P297(NY,NP) + P298(NY,NP) +

```

```

4      P299(NY,NP) + P340(NY,NP)

```

```

C
  P278(NY,NP) = P276(NY,NP) + P277(NY,NP) + A139(NY,NP)
C
C TOTAL UPT COST FOR YEAR
C
  P332(NY) = P332(NY) + P278(NY,NP)
C
C TOTAL UPT. RDT AND E COST
C
  P333(NY) = P333(NY) + A139(NY,NP)
C
C TOTAL UPT INVEST. COST
C
  P334(NY) = P334(NY) + P276(NY,NP)
C
C TOTAL UPT OPER. CCST
C
  P335(NY) = P335(NY) + P277(NY,NP)
C
  IF(IC.EQ.0) GO TO 601
  WRITE(6,500) NY,NP,P276(NY,NP),P277(NY,NP),P278(NY,NP),P332(NY),
  1      P333(NY),P334(NY),P335(NY)
500 FORMAT(3H NY,2X,I2,2X,2HNP,2X,I2,2X,4HP276,2X,E13.6,2X,4HP277,2X,
  1      E13.6,2X,4HP278,2X,E13.6,2X,4HP332,2X,E13.6/17X,4HP333,2X,
  2      E13.6,2X,4HP334,2X,E13.6,2X,4HP335,2X,E13.6)
C
601 IF(NP.GE.NA7(NY)) GO TO 5
  NP = NP + 1
  GO TO 1
C
C INVESTMENT COST NOT ASSIGNABLE TO PHASE
C
  5 P319(NY) = P115(NY) + P116(NY) + PP300(NY) + P301(NY) + P302(NY)
  1      + P303(NY) + P304(NY) + P305(NY) + P306(NY) + P307(NY) +
  2      P308(NY) + P309(NY)
C
C OPER. COST NOT ASSIGNABLE TO PHASE
C
  P320(NY) = P310(NY) + P311(NY) + P312(NY) + P313(NY) + P314(NY) +
  1      P315(NY) + P316(NY) + P317(NY) + P318(NY)
C
C TOTAL CCST NOT ASSIGNABLE TO PHASE
C
  P321(NY) = P319(NY) + P320(NY)
C
  P332(NY) = P332(NY) + P321(NY)
  P334(NY) = P334(NY) + P319(NY)
  P335(NY) = P335(NY) + P320(NY)
C
  IF(IC.EQ.0) RETURN
  WRITE(6,501) P319(NY),P320(NY),P321(NY),P332(NY),P334(NY),P335(NY)
501 FORMAT(1H ,16X,4HP319,2X,E13.6,2X,4HP320,2X,E13.6,2X,4HP321,2X,
  1      E13.6/17X,4HP332,2X,E13.6,2X,4HP334,2X,E13.6,2X,4HP335,2X,
  2      E13.6)
C
  P.URN
  END

```

```

SUBROUTINE PRINT1(NYRS,NYEAR,P29,P25,P208)
DIMENSION P29(1),P25(1),          P208(1),NYEAR(1)
COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
C
  IF(NYRS.GT.10) GO TO 13
  WRITE(6,11)
11  FORMAT(1H1,//////////,43X,47HUNDERGRADUATE PILOT TRAINING
  1CAPABILITY SUMMARY//)
  GO TO 14
C
13  WRITE(6,10)
10  FORMAT(1H1,42X,47HUNDERGRADUATE PILOT TRAINING CAPABILITY SUMMARY/
  1//)
C
14  II = 1
  IF(NYRS.GT.10) GO TO 22
  JJ = NYRS
  GO TO 24
22  JJ = 10
24  WRITE(6,25) (NYEAR(I),I=II,JJ)
25  FORMAT(1H0,27X,10(6X,14) )
C
  WRITE(6,30)
30  FORMAT(13HOMAXIMUM LOAD)
  WRITE(6,31)(P29(I),I = II,JJ)
31  FORMAT(1H0,4X,20HMAXIMUM STUDENT LOAD,3X,10(3X,F7.0)//)
C
  WRITE(6,32)
32  FORMAT(14HOREQUIRED LOAD)
  WRITE(6,33) (P25(I),I = II,JJ)
33  FORMAT(1H0,4X,19HACTUAL STUDENT LOAD,4X 10(4X,F6.0))
C
  WRITE(6,34) (A224(I),I = II,JJ)
34  FORMAT(1H0,4X,18HSURGE STUDENT LOAD,5X,10(4X,F6.0))
  WRITE(6,35) (P208(I),I = II,JJ)
35  FORMAT(1H0,4X,22HACTUAL PLUS SURGE LOAD,1X,10(4X,F6.0)//)
C
  IF(JJ.EQ.NYRS) GO TO 50
  II = 11
  JJ = NYRS
  WRITE(6,12)
12  FORMAT(1H0,//////////)
  GO TO 24
C
50  RETURN
  ENC

```

```

SUBROUTINE PRINT2(NYRS,NYEAR,NB,P18A,P20,P19,P31,P24,P27,P28,P103)
DIMENSION NYEAR(1),P18A(20,15,3),P20(20,15,3),P19(20,15,3),
1      P31(20,15,3),P24(20,15,3),P27(20,15,3),P28(20,1),
2      P103(20,1)

```



```

DO 500 IK = 1,NB
II = 1
IF(NYRS.GT.10) GO TO 10
JJ = NYRS
GO TO 15
10 JJ = 10
15 WRITE(6,5)
5 FORMAT(1H1,43X,44HUNDERGRADUATE PILOT TRAINING BASE CAPABILITY/)
WRITE(6,6) IK
6 FORMAT(1H0,57X,15HAIR FORCE BASE ,12/)
WRITE(6,7)(NYEAR(I),I = 11,JJ)
7 FORMAT(1HC,37X,10(5X,I4)/)
C
DO 300 J = 1,3
WRITE(6,8) J
8 FORMAT(7HOPHASE ,I1)
WRITE(6,9)
9 FORMAT(1H0,2X,7HRUNWAYS)
WRITE(6,11) (P18A(I,IK,J),I = 11,JJ)
11 FORMAT(1H ,5X,17HRUNWAYS AVAILABLE,16X,1C(7X,F2.0))
WRITE(6,12) (P20(I,IK,J),I = 11,JJ)
12 FORMAT(1H ,5X,33HMINIMUM EFFECTIVE LAUNCH INTERVAL,3X,
1 10(4X,F5.3))
C
WRITE(6,13)
13 FORMAT(1H0,2X,3HAIRSPACE)
WRITE(6,14) (P19(I,IK,J),I = 11,JJ)
14 FORMAT(1H ,5X,19HAIRSPACES AVAILABLE,13X,1X,1C(6X,F3.0))
WRITE(6,12) (P31(I,IK,J),I = 11,JJ)
C
WRITE(6,16)
16 FORMAT(1H0,2X,12HSTUDENT LOAD)
WRITE(6,17) (P24(I,IK,J),I = 11,JJ)
17 FORMAT(1H ,5X,18HMAXIMUM PHASE LOAD,15X,1C(4X,F5.0))
WRITE(6,18) (P27(I,IK,J),I = 11,JJ)
18 FORMAT(1H ,5X,31HMAXIMUM COURSE LOAD SUPPORTABLE,2X,10(4X,F5.0))
C
300 CONTINUE
C
WRITE(6,19)
19 FORMAT(7HOCOURSE)
WRITE(6,20) (P28(I,IK),I = 11,JJ)
20 FORMAT(1H0,2X,20HMAXIMUM STUDENT LOAD,16X,10(2X,F7.0))
WRITE(6,21) (P103(I,IK),I = 11,JJ)
21 FORMAT(1H ,2X,19HACTUAL STUDENT LOAD,17X,10(4X,F5.0))
C
IF(JJ.EQ.NYRS) GO TO 500
II = 11
JJ = NYRS
GO TO 15
C
500 CONTINUE
C
RETURN
END

```

```

SUBROUTINE PRINT3(NYRS,NYEAR,P4,P5,P235,P236,P237,P238,
1 P239,P17,P25)
COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
1 A113(20,3),A10(20)
DIMENSION NYEAR(1), P4(20,1),P5(1),P235(1),P236(1),P237(1),
1 P238(1),P239(1),P17(22,1),P25(1)
DIMENSION DUMMY(20,3)

C
II = 1
IF(NYRS.GT.10) GO TO 22
JJ = NYRS
GO TO 23
22 JJ = 10
23 WRITE(6,10)
10 FORMAT(1H1,47X,36HUNDERGRADUATE PILOT TRAINING PROGRAM,/)

C
24 WRITE(6,25) (NYEAR(1), I = 11,JJ)
25 FORMAT(1H0,27X,10(6X,14)/)

C
WRITE(6,30)
30 FORMAT(10H0COURSE SYLLABUS/)

C
WRITE(6,31)
31 FORMAT(1H ,3X,12HFLYING HOURS)
DO 32 J = 1,3
DO 100 I = 11,JJ
IF(J.GT.NA7(I)) GO TO 101
DUMMY(I,J) = A1(I,J)
GO TO 100
101 DUMMY(I,J) = 0.
100 CONTINUE
32 WRITE(6,33) J, (DUMMY(I,J), I = 11,JJ)
33 FORMAT(1H ,6),6HPHASE ,12,14X,10(5X,F5.1))
WRITE(6,34) (P236(1), I = 11,JJ)
34 FORMAT(1H ,6X,5HTOTAL,17X,10(5X,F5.1))

C
WRITE(6,35)
35 FORMAT(1H0,3X,15HSIMULATOR HOURS)
DO 36 J = 1,3
DO 200 I = 11,JJ
IF(J.GT.NA7(I)) GO TO 201
DUMMY(I,J) = A113(I,J)
GO TO 200
201 DUMMY(I,J) = 0.
200 CONTINUE
36 WRITE(6,33) J, (DUMMY(I,J), I = 11,JJ)
WRITE(6,34) (P237(1), I = 11,JJ)

C
WRITE(6,37)
37 FORMAT(1H0,3X,23HACADEMIC TRAINING HOURS)
DO 38 J = 1,3
DO 300 I = 11,JJ
IF(J.GT.NA7(I)) GO TO 301
DUMMY(I,J) = A43(I,J)
GO TO 300
301 DUMMY(I,J) = 0.
300 CONTINUE
38 WRITE(6,33) J, (DUMMY(I,J), I = 11,JJ)

```

```
WRITE(6,34) (P238(I), I = II,JJ)
```

```
WRITE(6,39)
```

```
39 FORMAT(1H0,3X,22HOFFICER TRAINING HOURS)
```

```
DO 40 J = 1,3
```

```
DO 400 I = II,JJ
```

```
IF(J.GT.NA7(I)) GO TO 401
```

```
DUMMY(I,J) = A44(I,J)
```

```
GO TO 400
```

```
401 DUMMY(I,J) = 0.
```

```
400 CONTINUE
```

```
40 WRITE(6,33) J, (DUMMY(I,J), I = II,JJ)
```

```
WRITE(6,34) (P239(I), I = II,JJ)
```

```
WRITE(6,41)
```

```
41 FORMAT(16HOCOURSE DURATION/)
```

```
WRITE(6,42)
```

```
42 FORMAT(1H ,3X,13HCALENDAR DAYS)
```

```
DO 43 J = 1,3
```

```
43 WRITE(6,44) J, (P4(I,J), I = II,JJ)
```

```
44 FORMAT(1H ,6X,6HPHASE ,12,13X,10(6X,F4.0))
```

```
WRITE(6,45) (P5(I), I = II,JJ)
```

```
45 FORMAT(1H ,6X,5HTOTAL,16X,10(6X,F4.0)/)
```

```
WRITE(6,46)
```

```
46 FORMAT(9HOSTUDENTS/)
```

```
WRITE(6,47) (P235(I), I = II,JJ)
```

```
47 FORMAT(1H ,3X,15HSTUDENT ENTRIES,9X,10(5X,F5.0)/)
```

```
WRITE(6,48)
```

```
48 FORMAT(1H ,3X,12HSTUDENT LOAD)
```

```
DO 49 J = 1,3
```

```
49 WRITE(6,50) J, (P17(I,J), I = II,JJ)
```

```
50 FORMAT(1H ,6X,6HPHASE ,12,13X,10(5X,F5.0))
```

```
WRITE(6,51) (P25(I), I = II,JJ)
```

```
51 FORMAT(1H ,6X,5HTOTAL,16X,10(5X,F5.0))
```

```
WRITE(6,52) (A10(I), I = II,JJ)
```

```
52 FORMAT(1H0,3X,13HUPT GRADUATES,11X,10(5X,F5.0))
```

```
IF(JJ.EQ.NYRS) GO TO 55
```

```
II = II
```

```
JJ = NYRS
```

```
GO TO 23
```

```
55 RETURN
```

```
END
```

```
SUBROUTINE PRINT4(NYRS,NYEAR,NB,P103,P210,P211,P212,P213,P214,
```

```
1 P215,P216,P217,P218,P219,P220,P221,P223,P224,
```

```
2 P225,P226,P227,P228,P229)
```

```
DIMENSION NYEAR(1),P103(20,15),P210(20,15),P211(20,15),
```

```
1 P212(20,15),P213(20,15),P214(20,15),P215(20,15),
```

```
2 P216(20,15),P217(20,15),P218(20,15),P219(20,15),
```

```
2 P220(20,15),P221(20,15),P223(20,15),P224(20,15),
```

```
P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
```

```
P229(20,15)
```

C

```

DO 500 IK = 1, NB
  II = 1
  IF (NYRS.GT.10) GO TO 10
  JJ = NYRS
  GO TO 15
10 JJ = 10
15 WRITE(6,5)
  5 FORMAT(1H1,47X,37HUNDERGRADUATE PILOT TRAINING MANPOWER)
  WRITE(6,6) IK
  6 FORMAT(1H0,57X,15HAIR FORCE BASE ,12/)
  WRITE(6,7) (NYEAR(I), I = II, JJ)
  7 FORMAT(1H0,39X,10(5X,14))

```

C

```

  WRITE(6,8)
  8 FORMAT(11HOOPERATIONS)
  WRITE(6,9) (P103(I,IK), I = II, JJ)
  9 FORMAT(1H0,2X,8HSTUDENTS,29X,10(4X,F5.0))
  WRITE(6,11) (P210(I,IK), I = II, JJ)
  11 FORMAT(1H ,2X,26HPILOT TRAINING SQUADRON(S),11X,10(4X,F5.0))
  WRITE(6,12) (P211(I,IK), I = II, JJ)
  12 FORMAT(1H ,2X,16HSTUDENT SQUADRON,21X,10(4X,F5.0))
  WRITE(6,13) (P212(I,IK), I = II, JJ)
  13 FORMAT(1H ,2X,16HSIMULATOR BRANCH,21X,10(4X,F5.0))

```

C

```

  WRITE(6,14)
  14 FORMAT(12HOMAINTEENANCE)
  WRITE(6,16) (P213(I,IK), I = II, JJ)
  16 FORMAT(1H0,2X,26HFIELD MAINTENANCE SQUADRON,11X,10(4X,F5.0))
  WRITE(6,17) (P214(I,IK), I = II, JJ)
  17 FORMAT(1H ,2X,35HORGANIZATIONAL MAINTENANCE SQUADRON,
  1 2X,10(4X,F5.0))

```

C

```

  WRITE(6,18)
  18 FORMAT(15HADMINISTRATIVE)
  WRITE(6,19) (P215(I,IK), I = II, JJ)
  19 FORMAT(1H0,2X,19HPILOT TRAINING WING,18X,10(4X,F5.0))
  WRITE(6,11)
  41 FORMAT(1H ,6X,23H(LESS SIMULATOR BRANCH))

```

C

```

  WRITE(6,20)
  20 FORMAT(8HOSUPPCRT)
  WRITE(6,21) (P220(I,IK), I = II, JJ)
  21 FORMAT(1H0,2X,14HAIR BASE GROUP,23X,10(4X,F5.0))
  WRITE(6,22) (P221(I,IK), I = II, JJ)
  22 FORMAT(1H ,2X,25HUSAF HOSPITAL(DISPENSARY),12X,10(4X,F5.0))
  WRITE(6,23) (P216(I,IK), I = II, JJ)
  23 FORMAT(1H ,2X,15HSUPPLY SQUADRON,22X,10(4X,F5.0))
  WRITE(6,24) (P218(I,IK), I = II, JJ)
  24 FORMAT(1H ,2X,16HSUPPORT SQUADRON,21X,10(4X,F5.0))
  WRITE(6,25) (P217(I,IK), I = II, JJ)
  25 FORMAT(1H ,2X,23HFIELD TRAINING SQUADRON,14X,10(4X,F5.0))
  WRITE(6,26) (P219(I,IK), I = II, JJ)
  26 FORMAT(1H ,2X,15HSUPPORT TENANTS,22X,10(4X,F5.0))

```

C

```

  WRITE(6,27)
  27 FORMAT(7HOTOTALS)
  WRITE(6,28)
  28 FORMAT(1H0,2X,23HPERMANENT PARTY BY TYPE)

```

```

WRITE(6,29) (P223(I,IK), I = II, JJ)
29 FORMAT(1H ,5X,8POFFICERS,26X,10(4X,F5.0))
WRITE(6,30) (P224(I,IK), I = II, JJ)
30 FORMAT(1H ,5X,6HAIRMEN,28X,10(4X,F5.0))
WRITE(6,31) (P225(I,IK), I = II, JJ)
31 FORMAT(1H ,5X,9CIVILIANS,25X,10(4X,F5.0))
WRITE(6,32) (P226(I,IK), I = II, JJ)
32 FORMAT(1H ,5X,5HTOTAL,29X,10(4X,F5.0))
WRITE(6,33)
33 FORMAT(1H0,2X,24HPERMANENT PARTY BY PHASE)
DO 35 J = 1,3
35 WRITE(6,34) J, (P227(I,IK,J), I = II, JJ)
34 FORMAT(1H ,5X,5HPHASE,I2,27X,10(4X,F5.0))
WRITE(6,36) (P228(I,IK), I = II, JJ)
36 FORMAT(1H ,5X,23HNOT ASSIGNABLE BY PHASE,11X,10(4X,F5.0))
WRITE(6,37) (P229(I,IK), I = II, JJ)
WRITE(6,38)
38 FORMAT(1H0,2X,14HTOTAL MANPOWER)
WRITE(6,39) (P103(I,IK), I = II, JJ)
39 FORMAT(1H ,5X,8HSTUDENTS,26X,10(4X,F5.0))
WRITE(6,40) (P226(I,IK), I = II, JJ)
40 FORMAT(1H ,5X,15HPERMANENT PARTY,19X,10(4X,F5.0))
WRITE(6,41) (P229(I,IK), I = II, JJ)

```

```

C
IF(JJ.EQ.NYRS) GO TO 500
I = II
JJ = NYRS
GO TO 15

```

```

C
500 CONTINUE
RETURN
END

```

```

SUBROUTINE PRINT5(NYRS,NYEAR,P230,P92,P300,P96)
COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
DIMENSION P230(20,3),P92(20,3),P300(20,3),NYEAR(20),F76(20,3)

```

```

C
WRITE(6,10)
10 FORMAT(1H1,47X,37HUNDERGRADUATE PILOT TRAINING AIRCRAFT//)

```

```

C
II = 1
IF(NYRS.GT.10) GO TO 22
JJ = NYRS
GO TO 24
22 JJ = 10
24 WRITE(6,25) (NYEAR(II), I = II, JJ)
25 FORMAT(1H0,27X,10(6X,I4)/)

```

```

C
WRITE(6,29)
29 FORMAT(12HOREQUIREMENT)

```

```

C
DO 70 J = 1,3
WRITE(6,36) J, (P96(I,J), I = II, JJ)

```

```

WRITE(6,30)

```

```

30 FORMAT(30HOINVENTORY (BEGINNING OF YEAR))
C
DO 35 J = 1,3
35 WRITE(6,36) J,(P230(I,J),I = II,JJ)
36 FORMAT(1H ,4X,5HPHASE,1X,I1,16X,10(4X,F6.1))
C
WRITE(6,40)
40 FORMAT(32HOADDITIONS BY USER (DURING YEAR))
C
DO 45 J = 1,3
45 WRITE(6,36) J,(P11(I,J),I = II,JJ)
C
WRITE(6,50)
50 FORMAT(33HOADDITIONS BY MODEL (DURING YEAR))
C
DO 55 J = 1,3
55 WRITE(6,36) J,(P92(I,J),I = II,JJ)
C
WRITE(6,60)
60 FORMAT(22HOLOSSES FROM ATTRITION/8X,13H(DURING YEAR))
C
DO 65 J = 1,3
65 WRITE(6,36) J,(P300(I,J),I = II,JJ)
C
IF(JJ.EQ.NYRS) GO TO 100
II = 11
JJ = NYRS
GO TO 24
C
100 RETURN
END

SUBROUTINE PRINT6(NYRS,NYEAR,P93,P231,P95,NB)
DIMENSION NYEAR(20),P93(20,15,3),P231(20,15,3),P95(20,15,3)
COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
C
DO 100 J = 1,NB
C
WRITE(6,10)
10 FORMAT(1H1,46X,39HUNDERGRADUATE PILOT TRAINING SIMULATORS)
WRITE(6,11) J
11 FORMAT(1H0,57X,15HAIR FORCE BASE ,12//)
C
II = 1
IF(NYRS.GT.10) GO TO 22
JJ = NYRS
GO TO 24
22 JJ = 10
24 WRITE(6,25) (NYEAR(I),I = II,J)
25 FORMAT(1H0,27X,10(6X,I4//)
C
WRITE(6,29)
FORMAT(12HOREQUIREMENT)
DO 70 K = 1,3

```

```

70 WRITE(6,36) K, (P93(I,J,K), I = 1, JJ)
C
  WRITE(6,30)
30 FORMAT(30HOINVENTORY (BEGINNING OF YEAR))
C
  DO 35 K = 1,3
35 WRITE(6,36) K, (P231(I,J,K), I = 1, JJ)
36 FORMAT(1H ,4X,5HPHASE,1X,11,16X,10(4X,F6.1))
C
  WRITE(6,40)
40 FORMAT(32HOADDITIONS BY USER (DURING YEAR))
C
  DO 45 K = 1,3
45 WRITE(6,36) K, (A116(I,J,K), I = 1, JJ)
C
  WRITE(6,50)
50 FORMAT(33HOADDITIONS BY MODEL (DURING YEAR))
C
  DO 55 K = 1,3
55 WRITE(6,36) K, (P95(I,J,K), I = 1, JJ)
C
  IF(JJ.EQ.NYRS) GO TO 100
  II = 11
  JJ = NYRS
  GO TO 24
C
100 CONTINUE
  RETURN
  END

SUBROUTINE PRINT7(NYRS,NYEAR,P135,P136,P137,P236,P237,P238,P239,
1      P240,P241,P242,P243,P244,P245,P246,P247,P248,
2      P249,P250,P251,P252,P253,P254,P255,P256,P257,
3      P258,P259,P260,P261,P263,P264,P265,NB)
COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
DIMENSION NYEAR(20),P135(20,15),P136(20,15),P137(20,15),
1      P236(20,15),P237(20,15),P238(20,15),P239(20,15),
2      P240(20,15),P241(20,15),P242(20,15),P243(20,15),
3      P244(20,15),P245(20,15),P246(20,15),P247(20,15),
4      P248(20,15),P249(20,15),P250(20,15),P251(20,15),
5      P252(20,15),P253(20,15),P254(20,15),P255(20,15),
6      P256(20,15),P257(20,15,3),P258(20,15),P259(20,15),
7      P260(20,15),P261(20,15),P263(20,15),P264(20,15),
8      P265(20,15)
C
  DO 500 IK = 1,NB
  II = 1
  IF(NYRS.GT.10) GO TO 10
  JJ = NYRS
  GO TO 15
10 JJ = 10
C
SCALE OUTPUT VARIABLES

```

```

15 DO 20 I = II, JJ
   A178(I, IK) = A178(I, IK)/1000.
   A179(I, IK) = A179(I, IK)/1000.
   P135(I, IK) = P135(I, IK)/1000.
   P136(I, IK) = P136(I, IK)/1000.
   P137(I, IK) = P137(I, IK)/1000.
   P236(I, IK) = P236(I, IK)/1000.
   P237(I, IK) = P237(I, IK)/1000.
   P238(I, IK) = P238(I, IK)/1000.
   P239(I, IK) = P239(I, IK)/1000.
   P240(I, IK) = P240(I, IK)/1000.
   P241(I, IK) = P241(I, IK)/1000.
   P242(I, IK) = P242(I, IK)/1000.
   P243(I, IK) = P243(I, IK)/1000.
   P244(I, IK) = P244(I, IK)/1000.
   P245(I, IK) = P245(I, IK)/1000.
   P246(I, IK) = P246(I, IK)/1000.
   P247(I, IK) = P247(I, IK)/1000.
   P248(I, IK) = P248(I, IK)/1000.
   P249(I, IK) = P249(I, IK)/1000.
   P250(I, IK) = P250(I, IK)/1000.
   P251(I, IK) = P251(I, IK)/1000.
   P252(I, IK) = P252(I, IK)/1000.
   P253(I, IK) = P253(I, IK)/1000.
   P254(I, IK) = P254(I, IK)/1000.
   P255(I, IK) = P255(I, IK)/1000.
   P256(I, IK) = P256(I, IK)/1000.
   P258(I, IK) = P258(I, IK)/1000.
   P259(I, IK) = P259(I, IK)/1000.
   P260(I, IK) = P260(I, IK)/1000.
   P261(I, IK) = P261(I, IK)/1000.
   P263(I, IK) = P263(I, IK)/1000.
   P264(I, IK) = P264(I, IK)/1000.
   P265(I, IK) = P265(I, IK)/1000.
   CO 19 J = 1, 3
19 P257(I, IK, J) = P257(I, IK, J)/1000.
20 CONTINUE

```

C

```

   WRITE(6, 5)
   5 FORMAT(1H1, 35X, 60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
   1 OF DOLLARS)/)
   WRITE(6, 6) IK
   6 FORMAT(1H0, 57X, 15HAIR FORCE BASE , 12/)
   WRITE(6, 7)(NYEAR(I), I = II, JJ)
   7 FORMAT(1H0, 29X, 10(6X, 14)/)

```

C

```

   WRITE(6, 30)
30 FORMAT(1H0INVESTMENT)
   WRITE(6, 31) (P236(I, IK), I = II, JJ)
31 FORMAT(1H0, 2X, 10HSIMULATORS, 17X, 10(4X, F6.0))
   WRITE(6, 32) (P237(I, IK), I = II, JJ)
32 FORMAT(1H , 2X, 16HSIMULATOR SPARES, 11X, 10(4X, F6.0))
   WRITE(6, 33) (P238(I, IK), I = II, JJ)
33 FORMAT(1H , 2X, 18HTRAINING EQUIPMENT, 9X, 10(4X, F6.0))
   WRITE(6, 34) (P239(I, IK), I = II, JJ)
34 FORMAT(1H , 2X, 21HBASE SUPPORT EQUIPMENT, 5X, 10(4X, F6.0))
   WRITE(6, 35)
   35 FORMAT(1H , 2X, 10HFACILITIES)
   WRITE(6, 36) (P135(I, IK), I = II, JJ)

```



```

36 FORMAT(1H ,5X,19HNEW BASE CONVERSION,5X,10(4X,F6.0))
WRITE(6,37) (P240(I,IK), I = II,JJ)
37 FORMAT(1H ,5X,7HRUNWAYS,17X,10(4X,F6.0))
WRITE(6,38) (P136(I,IK), I = II,JJ)
38 FORMAT(1H ,5X,19HSIMULATOR BUILDINGS,5X,10(4X,F6.0))
WRITE(6,39) (P137(I,IK), I = II,JJ)
39 FORMAT(1H ,5X,19HCLASSROOM BUILDINGS,5X,10(4X,F6.0))
WRITE(6,40) (A179(I,IK), I = II,JJ)
40 FORMAT(1H ,5X,24HFLY. TRAIN. BASIC BLDGS., 10(4X,F6.0))
WRITE(6,41) (P265(I,IK), I = II,JJ)
41 FORMAT(1H ,5X,7HHOUSING,17X,10(4X,F6.0))
WRITE(6,42) (A178(I,IK), I = II,JJ)
42 FORMAT(1H ,5X,5HOTHER,19X,10(4X,F6.0))
WRITE(6,43) (P241(I,IK), I = II,JJ)
43 FORMAT(1H ,2X,6HSTOCKS,21X,10(4X,F6.0))
WRITE(6,44) (P242(I,IK), I = II,JJ)
44 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(4X,F6.0))
WRITE(6,45) (P243(I,IK), I = II,JJ)
45 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(4X,F6.0))

```

C

```

WRITE(6,46)
46 FORMAT(10HOOPERATING)
WRITE(6,47)
47 FORMAT(1H0,2X,24HTRAINING A/C MAINTENANCE)
WRITE(6,48) (P244(I,IK), I = II,JJ)
48 FORMAT(1H ,5X,17HDEPOT MAINTENANCE,7X,10(4X,F6.0))
WRITE(6,49) (P245(I,IK), I = II,JJ)
49 FORMAT(1H ,5X,13HBASE MATERIAL,11X,10(4X,F6.0))
WRITE(6,50) (P246(I,IK), I = II,JJ)
50 FORMAT(1H ,5X,22HCONTRACTED MAINTENANCE,2X,10(4X,F6.0))
WRITE(6,51) (P247(I,IK), I = II,JJ)
51 FORMAT(1H0,2X,16HTRAINING A/C POL,11X,10(4X,F6.0))
WRITE(6,52) (P260(I,IK), I = II,JJ)
52 FORMAT(1H ,2X,19HSUPPCRT A/C O ANC M, 8X,10(4X,F6.0))
WRITE(6,53) (P261(I,IK), I = II,JJ)
53 FORMAT(1H ,2X,19HR AND R A/C O AND M, 8X,10(4X,F6.0))

```

C

```

WRITE(6,54)
54 FORMAT(1H1////////)
WRITE(6,7) (NYEAR(I), I = II,JJ)
WRITE(6,55)
55 FORMAT(1H0,21HOPERATING (CONTINUED))
WRITE(6,56) (P248(I,IK), I = II,JJ)
56 FORMAT(1H0,2X,25HSIMULATOR MAT. AND SERVS.,2X,10(4X,F6.0))
WRITE(6,57) (P249(I,IK), I = II,JJ)
57 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(4X,F6.0))
WRITE(6,58) (P250(I,IK), I = II,JJ)
58 FORMAT(1H ,2X,26HCONTRACTED FLYING TRAINING,1X,10(4X,F6.0))
WRITE(6,59)
59 FORMAT(1H0,2X,18HPAY AND ALLOWANCES, 9X,10(4X,F6.0))
WRITE(6,60) (P251(I,IK), I = II,JJ)
60 FORMAT(1H0,5X,8HOFFICERS,16X,10(4X,F6.0))
WRITE(6,61) (P252(I,IK), I = II,JJ)
61 FORMAT(1H ,5X,6HAIIRMEN,18X,10(4X,F6.0))
WRITE(6,62) (P253(I,IK), I = II,JJ)
62 FORMAT(1H ,5X,9HCIVILIANS,15X,10(4X,F6.0))
WRITE(6,63) (P254(I,IK), I = II,JJ)
63 FORMAT(1H0,2X,8HTRAINING,19X,10(4X,F6.0))
WRITE(6,64) (P255(I,IK), I = II,JJ)

```

```

64 FORMAT(1H ,2X,6HTRAVEL,21X,10(4X,F6.0))
   WRITE(6,65) (P256(I,IK), I = II, JJ)
65 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(4X,F6.0))

```

C

```

   WRITE(6,66)
66 FORMAT(13HOCOST BY TYPE)
   WRITE(6,67) (P263(I,IK), I = II, JJ)
67 FORMAT(1H0,2X,10HINVESTMENT,17X,10(4X,F6.0))
   WRITE(6,68) (P264(I,IK), I = II, JJ)
68 FORMAT(1H ,2X,9HOPERATING,18X,10(4X,F6.0))
   WRITE(6,69) (P258(I,IK), I = II, JJ)
69 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

```

C

```

   WRITE(6,70)
70 FORMAT(14HOCOST BY PHASE/)
   DO 72 K = 1,3
   WRITE(6,71) K, (P257(I,IK,K), I = II, JJ)
71 FORMAT(1H ,2X,5HPHASE,I2,20X,10(3X,F7.0))
72 CONTINUE
   WRITE(6,73) (P259(I,IK), I = II, JJ)
73 FORMAT(1H ,2X,23HNOT ASSIGNABLE TO PHASE,4X,10(3X,F7.0))
   WRITE(6,74) (P258(I,IK), I = II, JJ)
74 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

```

C

```

   IF(JJ.EQ.NYRS) GO TO 500
   II = II
   JJ = NYRS
   GO TO 15
500 CONTINUE

```

C

```

   RETURN
   END

```

```

SUBROUTINE PRINTB(NYRS, NYEAR, P115, P116, P266, P267, P268, P269, P270,
1          P271, P273, P274, P341)
DIMENSION P115(20), P116(20), P266(20), P267(20), P268(20), P269(20),
1          P270(20,3), P271(20), P273(20), P274(20), P341(20), NYEAR(20)

```

C

```

   WRITE(6,10)
10 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
1 OF DOLLARS)/55X,22HNOT ASSIGNABLE TO BASE/)

```

C

```

   II = II
   IF(NYRS.GT.10) GO TO 11
   JJ = NYRS
   GO TO 12
11 JJ = 10

```

C

```

12 WRITE(6,13) (NYEAR(I), I = II, JJ)
13 FORMAT(1H0,29X,10(6X,14)/)

```

C

C

C

```

SCALE INPUT VARIABLES

```

```

DO 20 I = II, JJ

```

P115(I) = P115(I)/1000.  
 P116(I) = P116(I)/1000.  
 P266(I) = P266(I)/1000.  
 P267(I) = P267(I)/1000.  
 P268(I) = P268(I)/1000.  
 P269(I) = P269(I)/1000.  
 P271(I) = P271(I)/1000.  
 P273(I) = P273(I)/1000.  
 P274(I) = P274(I)/1000.  
 P341(I) = P341(I)/1000.

DO 19 J = 1,3

19 P270(I,J) = P270(I,J)/1000.

20 CONTINUE

C

WRITE(6,30) (P269(I), I = II, JJ)

30 FORMAT(10HORDT AND E,20X,10(3X,F7.0))

WRITE(6,31)

31 FORMAT(11HINVESTMENT)

WRITE(6,32) (P266(I), I = II, JJ)

32 FORMAT(1H0,2X,17HTRAINING AIRCRAFT,10X,10(3X,F7.0))

WRITE(6,33) (P116(I), I = II, JJ)

33 FORMAT(1H ,2X,16HSUPPORT AIRCRAFT,11X,10(3X,F7.0))

WRITE(6,34) (P115(I), I = II, JJ)

34 FORMAT(1H ,2X,23HRESCUE AND RECOVERY A/C,4X,10(3X,F7.0))

WRITE(6,35) (P267(I), I = II, JJ)

35 FORMAT(1H ,2X,19HTRAINING A/C SPARES,8X,10(3X,F7.0))

WRITE(6,36) (P268(I), I = II, JJ)

36 FORMAT(1H ,2X,23HAEROSPACE GROUND EQUIP.,4X,10(3X,F7.0))

C

WRITE(6,37)

37 FORMAT(10HOPERATING)

WRITE(6,38) (P341(I), I = II, JJ)

38 FORMAT(1H0,2X,23HRECURRING MODIFICATIONS,4X,10(3X,F7.0))

C

WRITE(6,39)

39 FORMAT(13HOCOST BY TYPE)

WRITE(6,40) (P269(I), I = II, JJ)

40 FORMAT(1H0,2X,9HRDT AND E,18X,10(3X,F7.0))

WRITE(6,41) (P274(I), I = II, JJ)

41 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))

WRITE(6,42) (P341(I), I = II, JJ)

42 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))

WRITE(6,43) (P273(I), I = II, JJ)

43 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

C

WRITE(6,44)

44 FORMAT(14HOCOST BY PHASE/)

DO 46 J = 1,3

WRITE(6,45) J, (P270(I,J), I = II, JJ)

45 FORMAT(1H ,2X,5HPHASE,12,20X,10(3X,F7.0))

46 CONTINUE

WRITE(6,47) (P271(I), I = II, JJ)

47 FORMAT(1H ,2X,23HNOT ASSIGNABLE TO PHASE,4X,10(3X,F7.0))

43 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

WRITE(6,48) (P273(I), I = II, JJ)

C

IF (JJ.EQ.NYRS) RETURN

II = II

JJ = NYRS

WR TE(6,10)  
GO TO 12

C

END

```

SUBROUTINE PRINT9(NYRS,NYEAR,P108,P109,P110,P276,P277,P278,P279,
1          P280,P281,P282,P283,P284,P285,P286,P287,P288,
2          P289,P290,P291,P292,P293,P294,P295,P296,P297,
3          P298,P299,P340)
COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
DIMENSION P108(20,3),P109(20,3),P110(20,3),P276(20,3),P277(20,3),
1          P278(20,3),P279(20,3),P280(20,3),P281(20,3),P282(20,3),
2          P283(20,3),P284(20,3),P285(20,3),P286(20,3),P287(20,3),
3          P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
4          P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
5          P298(20,3),P299(20,3),P340(20,3),NYEAR(20)
DO 100 J = 1,3
  II = 1
  IF(NYRS.GT.10) GO TO 5
  JJ = NYRS
  GO TO 10
5 JJ = 10

```

C

```

10 WRITE(6,11)
11 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
1 OF DOLLARS))
WRITE(6,12) J
12 FORMAT(1H0,62X,5HPHASE,12/)
WRITE(6,13) (NYEAR(I), I = II, JJ)
13 FORMAT(1H0,29X,10(6X,14))

```

C

C

C

C

SCALE INPUT VARIABLES

```

DO 20 I = II, JJ
A139(I, J) = A139(I, J)/1000.
P108(I, J) = P108(I, J)/1000.
P109(I, J) = P109(I, J)/1000.
P110(I, J) = P110(I, J)/1000.
P276(I, J) = P276(I, J)/1000.
P277(I, J) = P277(I, J)/1000.
P278(I, J) = P278(I, J)/1000.
P279(I, J) = P279(I, J)/1000.
P280(I, J) = P280(I, J)/1000.
P281(I, J) = P281(I, J)/1000.
P282(I, J) = P282(I, J)/1000.
P283(I, J) = P283(I, J)/1000.
P284(I, J) = P284(I, J)/1000.
P285(I, J) = P285(I, J)/1000.
P286(I, J) = P286(I, J)/1000.
P287(I, J) = P287(I, J)/1000.
P288(I, J) = P288(I, J)/1000.
P289(I, J) = P289(I, J)/1000.
P290(I, J) = P290(I, J)/1000.
P291(I, J) = P291(I, J)/1000.

```

P292(I,J) = P292(I,J)/1000.  
 P293(I,J) = P293(I,J)/1000.  
 P294(I,J) = P294(I,J)/1000.  
 P295(I,J) = P295(I,J)/1000.  
 P296(I,J) = P296(I,J)/1000.  
 P297(I,J) = P297(I,J)/1000.  
 P298(I,J) = P298(I,J)/1000.  
 P299(I,J) = P299(I,J)/1000.  
 20 P340(I,J) = P340(I,J)/1000.

C  
 WRITE(6,30) (A139(I,J), I = II, JJ)  
 30 FORMAT(10HORDI AND E,20X,10(3X,F7.0))  
 WRITE(6,31)  
 31 FORMAT(11HINVESTMENT)  
 WRITE(6,32) (P108(I,J), I = II, JJ)  
 32 FORMAT(1H0,2X,17HTRAINING AIRCRAFT,10X,10(3X,F7.0))  
 WRITE(6,33) (P279(I,J), I = II, JJ)  
 33 FORMAT(1H ,2X,10HSIMULATORS,17X,10(3X,F7.0))  
 WRITE(6,34)  
 34 FORMAT(1H0,2X,6HSPARES)  
 WRITE(6,35) (P109(I,J), I = II, JJ)  
 35 FORMAT(1H ,5X,8HAIRCRAFT,16X,10(3X,F7.0))  
 WRITE(6,36) (P280(I,J), I = II, JJ)  
 36 FORMAT(1H ,5X,9HSIMULATOR,15X,10(3X,F7.0))  
 WRITE(6,37) (P110(I,J), I = II, JJ)  
 37 FORMAT(1HC,2X,23HAEROSPACE GROUND EQUIP.,4X,10(3X,F7.0))  
 WRITE(6,38) (P281(I,J), I = II, JJ)  
 38 FORMAT(1H ,2X,18HTRAINING EQUIPMENT,9X,10(3X,F7.0))  
 WRITE(6,39) (P282(I,J), I = II, JJ)  
 39 FORMAT(1H ,2X,22HBASE SUPPORT EQUIPMENT,5X,10(3X,F7.0))  
 WRITE(6,40) (P283(I,J), I = II, JJ)  
 40 FORMAT(1H ,2X,7HRUNWAYS,20X,10(3X,F7.0))  
 WRITE(6,41) (P284(I,J), I = II, JJ)  
 41 FORMAT(1H ,2X,6HSTOCKS,21X,10(3X,F7.0))  
 WRITE(6,42) (P285(I,J), I = II, JJ)  
 42 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(3X,F7.0))  
 WRITE(6,43) (P286(I,J), I = II, JJ)  
 43 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(3X,F7.0))

C  
 WRITE(6,44)  
 44 FORMAT(10HOPERATING)  
 WRITE(6,45) (P340(I,J), I = II, JJ)  
 45 FORMAT(1H0,2X,23HRECURRING MODIFICATIONS,4X,10(3X,F7.0))  
 WRITE(6,46)  
 46 FORMAT(1H0,2X,24HTRAINING A/C MAINTENANCE,3X,10(3X,F7.0))  
 WRITE(6,47) (P287(I,J), I = II, JJ)  
 47 FORMAT(1H ,5X,17HDEPOT MAINTENANCE,7X,10(3X,F7.0))  
 WRITE(6,48) (P288(I,J), I = II, JJ)  
 48 FORMAT(1H ,5X,13HBASE MATERIAL,11X,10(3X,F7.0))  
 WRITE(6,49) (P289(I,J), I = II, JJ)  
 49 FORMAT(1H ,5X,22HCONTRACTED MAINTENANCE,2X,10(3X,F7.0))  
 WRITE(6,50) (P290(I,J), I = II, JJ)  
 50 FORMAT(1H0,2X,16HTRAINING A/C PCL,11X,10(3X,F7.0))  
 WRITE(6,51) (P291(I,J), I = II, JJ)  
 51 FORMAT(1H ,2X,25HSIMULATOR MAT. AND SERVS.,2X,10(3X,F7.0))  
 WRITE(6,52) (P292(I,J), I = II, JJ)  
 52 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(3X,F7.0))  
 WRITE(6,53) (P293(I,J), I = II, JJ)  
 53 FORMAT(1H ,2X,26HCONTRACTED FLYING TRAINING,1X,10(3X,F7.0))

```

WRITE(6,54)
54 FORMAT(1H0,2X,18HPAY AND ALLOWANCES)
WRITE(6,55) (P294(I,J), I = II, JJ)
55 FORMAT(1H ,5X,8HOFFICERS,16X,10(3X,F7.0))
WRITE(6,56) (P295(I,J), I = II, JJ)
56 FORMAT(1H ,5X,6HAIRMEN,18X,10(3X,F7.0))
WRITE(6,57) (P296(I,J), I = II, JJ)
57 FORMAT(1H ,5X,9HCIVILIANS,15X,10(3X,F7.0))
WRITE(6,58) (P297(I,J), I = II, JJ)
58 FORMAT(1H0,2X,8HTRAINING,19X,10(3X,F7.0))
WRITE(6,59) (P298(I,J), I = II, JJ)
59 FORMAT(1H ,2X,6HTRAVEL,21X,10(3X,F7.0))
WRITE(6,60) (P299(I,J), I = II, JJ)
60 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(3X,F7.0))

```

C

```

WRITE(6,61)
61 FORMAT(13HCOST BY TYPE)
WRITE(6,62) (A139(I,J), I = II, JJ)
62 FORMAT(1H0,2X, 9HRDT AND E,18X,10(3X,F7.0))
WRITE(6,63) (P276(I,J), I = II, JJ)
63 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))
WRITE(6,64) (P277(I,J), I = II, JJ)
64 FORMAT(1H ,2X,9HCPPEATING,18X,10(3X,F7.0))
WRITE(6,65) (P278(I,J), I = II, JJ)
65 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

```

C

```

IF(JJ.EQ.NYRS) GO TO 100
JJ = NYRS
II = II
GO TO 10

```

C

```

100 CONTINUE
RETURN
END

```

```

SUBROUTINE PRNT10(NYRS, NYEAR, P115, P116, PP300, P301, P302, P303, P304,
1 P305, P306, P307, P308, P309, P310, P311, P312, P313,
2 P314, P315, P316, P317, P318, P319, P320, P321)
DIMENSION P115(20), P116(20), PP300(20), P301(20), P302(20), P303(20),
1 P304(20), P305(20), P306(20), P307(20), P308(20), P309(20),
2 P310(20), P311(20), P312(20), P313(20), P314(20), P315(20),
3 P316(20), P317(20), P318(20), P319(20), P320(20), P321(20),
4 NYEAR(20)

```

```

II = 1
IF(NYRS.GT.10) GO TO 10
JJ = NYRS
GO TO 15

```

```

10 JJ = 10

```

C

C

```

SCALE OUTPUT VARIABLES

```

C

```

15 DO 20 I = II, JJ
PP300(I) = P300(I)/1000.
P301(I) = P301(I)/1000.
P302(I) = P302(I)/1000.

```

P303(I) = P303(I)/1000.  
 P304(I) = P304(I)/1000.  
 P305(I) = P305(I)/1000.  
 P306(I) = P306(I)/1000.  
 P307(I) = P307(I)/1000.  
 P308(I) = P308(I)/1000.  
 P309(I) = P309(I)/1000.  
 P310(I) = P310(I)/1000.  
 P311(I) = P311(I)/1000.  
 P312(I) = P312(I)/1000.  
 P313(I) = P313(I)/1000.  
 P314(I) = P314(I)/1000.  
 P315(I) = P315(I)/1000.  
 P316(I) = P316(I)/1000.  
 P317(I) = P317(I)/1000.  
 P318(I) = P318(I)/1000.  
 P319(I) = P319(I)/1000.  
 P320(I) = P320(I)/1000.  
 20 P321(I) = P321(I)/1000.

C

WRITE(6,30)  
 30 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING CCSTS (IN THOUSANDS  
 1 OF DOLLARS)/55X,23HNOT ASSIGNABLE TO PHASE/)  
 WRITE(6,31) (NYEAR(I), I = II,JJ)  
 31 FORMAT(1H0,29X,10(6X,14))

C

WRITE(6,32)  
 32 FORMAT(11H0INVESTMENT)  
 WRITE(6,33) (P116(I), I = II,JJ)  
 33 FORMAT(1H0,2X,16HSUPPORT AIRCRAFT,11X,10(3X,F7.0))  
 WRITE(6,34) (P115(I), I = II,JJ)  
 34 FORMAT(1H ,2X,23HRESCUE AND RECOVERY A/C,4X,10(3X,F7.0))  
 WRITE(6,35) (P300(I), I = II,JJ)  
 35 FORMAT(1H ,2X,22HBASE SUPPORT EQUIPMENT,5X,10(3X,F7.0))  
 WRITE(6,36)  
 36 FORMAT(1H0,2X,10HFACILITIES)  
 WRITE(6,37) (P301(I), I = II,JJ)  
 37 FORMAT(1H ,5X,19HNEW BASE CONVERSION,5X,10(3X,F7.0))  
 WRITE(6,38) (P302(I), I = II,JJ)  
 38 FORMAT(1H ,5X,17HSIMULATOR BUILDINGS,5X,10(3X,F7.0))  
 WRITE(6,39) (P303(I), I = II,JJ)  
 39 FORMAT(1H ,5X,19HCLASSROOM BUILDINGS,5X,10(3X,F7.0))  
 WRITE(6,40) (P304(I), I = II,JJ)  
 40 FORMAT(1H ,5X,24HFLY. TRAIN. BASIC BLDGS.,10(3X,F7.0))  
 WRITE(6,41) (P305(I), I = II,JJ)  
 41 FORMAT(1H ,5X, 7HHOUSING,17X,10(3X,F7.0))  
 WRITE(6,42) (P306(I), I = II,JJ)  
 42 FORMAT(1H ,5X,5HOTHER,19X,10(3X,F7.0))  
 WRITE(6,43) (P307(I), I = II,JJ)  
 43 FORMAT(1H0,2X,6HSTOCKS,21X,10(3X,F7.0))  
 WRITE(6,44) (P308(I), I = II,JJ)  
 44 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(3X,F7.0))  
 WRITE(6,45) (P309(I), I = II,JJ)  
 45 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(3X,F7.0))

C

WRITE(6,46)  
 46 FORMAT(10H0OPERATING)  
 WRITE(6,47) (P310(I), I = II,JJ)  
 FORMAT(1H0,2X,19HSUPPORT A/C O AND M,8X,10(3X,F7.0))

```

WRITE(6,48) (P311(I), I = II,JJ)
48 FORMAT(1H ,2X,19H^ AND R A/C O AND M,8X,10(3X,F7.0))
WRITE(6,49) (P312(I), I = II,JJ)
49 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(3X,F7.0))
WRITE(6,50)
50 FORMAT(1H0,2X,18HPAY AND ALLOWANCES,9X,10(2X,F7.0))
WRITE(6,51) (P313(I), I = II,JJ)
51 FORMAT(1H ,5X,8HOFFICERS,16X,10(3X,F7.0))
WRITE(6,60) (P314(I), I = II,JJ)
60 FORMAT(1H ,5X,6HAIRMEN,18X,10(3X,F7.0))
WRITE(6,52) (P315(I), I = II,JJ)
52 FORMAT(1H ,5X,9HCIVILIANS,15X,10(3X,F7.0))
WRITE(6,53) (P316(I), I = II,JJ)
53 FORMAT(1H0,2X,8HTRAINING,19X,10(3X,F7.0))
WRITE(6,54) (P317(I), I = II,JJ)
54 FORMAT(1H ,2X,6HTRAVEL,21X,10(3X,F7.0))
WRITE(6,55) (P318(I), I = II,JJ)
55 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(3X,F7.0))
WRITE(6,56)
56 FORMAT(13HOCUST BY TYPE)
WRITE(6,57) (P319(I), I = II,JJ)
57 FORMAT(1HC,2X,10HINVESTMENT,17X,10(3X,F7.0))
WRITE(6,58) (P320(I), I = II,JJ)
58 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))
WRITE(6,59) (P321(I), I = II,JJ)
59 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))

```

```

C
IF(JJ.EQ.NYRS) RETURN
II = II
JJ = NYRS
GO TO 15

```

```

C
END

```

```

SUBROUTINE PRNT11(NYRS,NYEAR,P258,P273,P278,P321,P332,P333,P334,
1 P335,N8)
DIMENSION NYEAR(20),P258(20,15),P273(20),P278(20,3),P321(20),
1 P332(20),P333(20),P334(20),P335(20)

```

```

C
II = 1
IF(NYRS.GT.10) GO TO 10
JJ = NYRS
GO TO 15
10 JJ = 10

```

```

C
C SCALE OUTPUT VARIABLES
C

```

```

15 DO 20 I = II,JJ
P332(I) = P332(I)/1000.
P333(I) = P333(I)/1000.
P334(I) = P334(I)/1000.
20 P335(I) = P335(I)/1000.

```

```

WRITE(6,30)
FORMAT(1H1,45X,41HUNDERGRADUATE PILOT TRAINING COST SUMMARY/ 53X,

```



```

1 25H(IN THOUSANDS OF DOLLARS)/)
WRITE(6,31) (NYEAR(I), I = II, JJ)
31 FORMAT(1H0,29X,10(6X,14))
C
WRITE(6,32)
32 FORMAT(13HOCOS1 BY TYPE)
WRITE(6,33) (P233(I), I = II, JJ)
33 FORMAT(1H0,2X, 9HRDT AND E,18X,10(3X,F7.0))
WRITE(6,34) (P334(I), I = II, JJ)
34 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))
WRITE(6,35) (P335(I), I = II, JJ)
35 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))
WRITE(6,36) (P332(I), I = II, JJ)
36 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
WRITE(6,37)
37 FORMAT(14HOCOST BY PHASE/)
DO 39 J = 1,3
WRITE(6,38) J, (P278(I,J), I = II, JJ)
38 FORMAT(1H ,2X,5HPHASE,12,20X,10(3X,F7.0))
39 CONTINUE
WRITE(6,40) (P321(I), I = II, JJ)
40 FORMAT(1H ,2X,23HNOT ASSIGNABLE TC PHASE,4X,10(3X,F7.0))
WRITE(6,41) (P332(I), I = II, JJ)
41 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
WRITE(6,42)
42 FORMAT(13HOCOST BY BASE/)
DO 44 K = 1,NB
WRITE(6,43) K, (P258(I,K), I = II, JJ)
43 FORMAT(1H ,2X,4HBASE,13,20X,10(3X,F7.0))
44 CONTINUE
WRITE(6,45) (P273(I), I = II, JJ)
45 FORMAT(1H ,2X,22HNOT ASSIGNABLE TC BASE,5X,10(3X,F7.0))
WRITE(6,46) (P332(I), I = II, JJ)
46 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
IF(JJ.EQ.NYRS) RETURN
II = 11
JJ = NYRS
GO TO 15
C
END

```

## Appendix C

ILLUSTRATIVE FLOWCHARTS AND DEFINITIONS OF  
THE VARIABLE NAMES USED IN THE FLOWCHARTS

A list of the variable names used in the flowcharts and their definitions follows. The subscripts used with the variable names are "p," "b," "s," and "y," where

p = phase,  
b = base,  
s = source,  
y = year.

Variable names whose first letter is "A" represent input quantities. They are defined in Appendix A.

<u>Variable Names</u>	<u>Definitions</u>
P1 <sub>p,y</sub>	Working days/phase
P2 <sub>y</sub>	Working days/year
P3 <sub>p,y</sub>	Calendar days/phase for flying
P4 <sub>p,y</sub>	Calendar days/phase
P5 <sub>y</sub>	Calendar days/course
P6 <sub>y</sub>	Course length in years
P7 <sub>y</sub>	Entries excluding attrition for all sources
P8 <sub>y</sub>	OTS entries excluding attrition
P9 <sub>s,y</sub>	Student course attrition rate
P10 <sub>y</sub>	OTS entries
P11 <sub>y</sub>	OTS student course attrition rate
P16 <sub>p,y</sub>	Phase length in years
P18 <sub>p,y</sub>	Cumulative phase length in years
P189 <sub>s,y</sub>	Percentage of students not attrited
P190 <sub>y</sub>	Fixed entries excluding attrition
P191 <sub>y</sub>	One minus course attrition rate for OTS
P206 <sub>p,y</sub>	Flying training days/phase constrained by flying
P207 <sub>p,y</sub>	Flying training days/phase constrained by all training

<u>Variable Names</u>	<u>Definitions</u>
P235 <sub>y</sub>	Total entries for year
P236 <sub>y</sub>	Total flying hours for year
P237 <sub>y</sub>	Total simulator hours for year
P238 <sub>y</sub>	Total academic training hours for year
P239 <sub>y</sub>	Total officer training hours for year
P12 <sub>p,y</sub>	Average attrition for all sources
P13 <sub>p,y</sub>	Attrition rate averaged over year entering
P14 <sub>p,y</sub>	Phase graduates by year of UPT graduation
P15 <sub>p,y</sub>	Entry--graduate average
P192 <sub>p,y</sub>	Attrited students for all fixed sources
P193 <sub>p,y</sub>	Entries for all fixed sources
P194 <sub>p,s,y</sub>	Phase entries percent of phase I entries
P195 <sub>p,y</sub>	Phase entries percent of phase I entries--OTS
P17 <sub>p,y</sub>	Student load/phase
P25 <sub>y</sub>	Student load/year
P26 <sub>p,y</sub>	Phase load percent of total
P208 <sub>y</sub>	Student load + surge by year
P209 <sub>p,y</sub>	Student load + surge by year and phase
P18A <sub>p,b,y</sub>	Runways
P19 <sub>p,b,y</sub>	Flying areas
P20 <sub>p,b,y</sub>	Effective launch interval in minutes (runway constrained)
P21 <sub>p,b,y</sub>	Sortie per flying day capability
P22 <sub>p,b,y</sub>	Student sorties per training day
P23 <sub>p,b,y</sub>	Student daylight sortie per training day/student required
P24 <sub>p,b,y</sub>	Maximum student load considering this phase
P27 <sub>p,b,y</sub>	Course student load supportable by phase
P28 <sub>b,y</sub>	Maximum student load considering all phases.
P29 <sub>y</sub>	Maximum student load per year
P30 <sub>y</sub>	UPT bases
P31 <sub>p,b,y</sub>	Effective launch interval in minutes (airpace constrained)
P32 <sub>p,b,y</sub>	Effective launch interval in minutes
P33 <sub>p,b,y</sub>	Student load by phase, base, year
P34	Preference rank (0 through 10)

<u>Variable Names</u>	<u>Definitions</u>
P35	Ease recomputation indicator
P36 p,b,y	Additional runway calculated
P37 p,b,y	Additional flying areas calculated
P103 b,y	Student load for all phases
P205 p,y	Maximum student load/year by phase
PP35 b,y	1 if new base b is thruput; 2 if new base b is added by model; 0 if base b is not new.
P38 p,b,y	Instructor pilots required
P39 p,b,y	Pilot training squadron officers assigned by phase
P40 b,y	Pilot training squadron officers assigned--no phase
P41 b,y	Pilot training squadron airmen assigned--no phase
P42 b,y	Pilot training squadron civilians--no phase
P43 p,b,y	Student squadron officers assigned by phase
P44 p,b,y	Student squadron airmen assigned by phase
P45 p,b,y	Student squadron civilians
P46 p,b,y	Student squadron personnel by phase
P47 b,y	Student squadron officers assigned--no phase
P48 b,y	Student squadron airmen assigned--no phase
P49 b,y	Student squadron civilians--no phase
P50 p,b,y	Officers less students by phase
P51 p,b,y	Airmen by phase
P52 p,b,y	Civilians by phase
P53 b,y	Officers less students--no phase
P54 b,y	Airmen--no phase
P55 b,y	Civilians--no phase
P56 p,b,y	Simulator instructors by phase
P57 b,y	Simulator officers assigned--no phase
P58 b,y	Simulator airmen assigned--no phase
P59 b,y	Simulator civilians--no phase
P210 b,y	Pilot training squadron personnel
P211 b,y	Student squadron personnel
P212 b,y	Simulator branch personnel

<u>Variable Names</u>	<u>Definitions</u>
P342 <sub>p,b,y</sub>	Simulator officers assigned by phase
P343 <sub>p,b,y</sub>	Simulator airmen assigned by phase
P60 <sub>p,b,y</sub>	Flying hours per year
P61 <sub>p,b,y</sub>	Field maintenance personnel by phase
P62 <sub>p,b,y</sub>	Field maintenance officers assigned by phase
P63 <sub>p,b,y</sub>	Field maintenance airmen assigned by phase
F64 <sub>p,b,y</sub>	Field maintenance civilians by phase
P65 <sub>p,b,y</sub>	Organizational maintenance personnel by phase
P66 <sub>p,b,y</sub>	Organizational maintenance officers assigned by phase
P67 <sub>p,b,y</sub>	Organizational maintenance airmen assigned by phase
P68 <sub>p,b,y</sub>	Organizational maintenance civilians by phase
P69 <sub>p,b,y</sub>	Pilot training wing personnel by phase
P70 <sub>p,b,y</sub>	Pilot training wing officers assigned by phase
P71 <sub>p,b,y</sub>	Pilot training wing airmen assigned by phase
P72 <sub>p,b,y</sub>	Pilot training wing civilians by phase
P73 <sub>b,y</sub>	Other pilot training wing personnel
P74 <sub>b,y</sub>	Pilot training wing officers--no phase
P75 <sub>b,y</sub>	Pilot training wing airmen--no phase
P76 <sub>b,y</sub>	Pilot training wing civilians--no phase
P90 <sub>p,y</sub>	Flying hours for all bases
P176 <sub>p,b,y</sub>	Operations, maintenance, and admn personnel--by phase
P177 <sub>b,y</sub>	Operations, maintenance, and admn personnel--no phase
P199 <sub>b,y</sub>	Field maintenance officers assigned--no phase
P200 <sub>b,y</sub>	Field maintenance airmen assigned--no phase
P201 <sub>b,y</sub>	Field maintenance civilians assigned--no phase
P202 <sub>b,y</sub>	Organizational maintenance officers assigned--no phase
P203 <sub>b,y</sub>	Organizational maintenance airmen assigned--no phase
P204 <sub>b,y</sub>	Organizational maintenance civilians assigned--no phase
P213 <sub>b,y</sub>	Field maintenance personnel
P214 <sub>b,y</sub>	Organizational maintenance personnel
P215 <sub>b,y</sub>	Pilot training wing personnel
P77 <sub>b,y</sub>	Supply squadron officers assigned--no phase
P78 <sub>b,y</sub>	Supply squadron airmen assigned--no phase
P79 <sub>b,y</sub>	Supply squadron civilians assigned--no phase

<u>Variable Names</u>	<u>Definitions</u>
P80 <sub>b,y</sub>	Field training squadron officers assigned--no phase
P81 <sub>b,y</sub>	Field training squadron airmen assigned--no phase
P82 <sub>b,y</sub>	Field training squadron civilians assigned--no phase
P83 <sub>b,y</sub>	Support squadron officers assigned--no phase
P84 <sub>b,y</sub>	Support squadron airmen assigned--no phase
P85 <sub>b,y</sub>	Support squadron civilians assigned--no phase
P86 <sub>b,y</sub>	Support tenant officers assigned--no phase
P87 <sub>b,y</sub>	Support tenant airmen assigned--no phase
P88 <sub>b,y</sub>	Support tenant civilians assigned--no phase
P216 <sub>b,y</sub>	Supply personnel
P217 <sub>b,y</sub>	Field training personnel
P218 <sub>b,y</sub>	Support personnel
P219 <sub>b,y</sub>	Support tenants
P171 <sub>p,b,y</sub>	Air base group personnel by phase
P172 <sub>p,b,y</sub>	Air base group officers by phase
P173 <sub>p,b,y</sub>	Air base group airmen by phase
P174 <sub>p,b,y</sub>	Air base group civilians by phase
P175 <sub>p,b,y</sub>	Hospital (dispensary) personnel by phase
P176 <sub>p,b,y</sub>	Operations, maintenance, and admn personnel by phase
P177 <sub>b,y</sub>	Operations, maintenance, and admn personnel--no phase
P178 <sub>p,b,y</sub>	Hospital (dispensary) officers by phase
P179 <sub>p,b,y</sub>	Hospital (dispensary) airmen by phase
P180 <sub>p,b,y</sub>	Hospital (dispensary) civilians by phase
P181 <sub>b,y</sub>	Air base group personnel--no phase
P182 <sub>b,y</sub>	Air base group officers--no phase
P183 <sub>b,y</sub>	Air base group airmen--no phase
P184 <sub>b,y</sub>	Air base group civilians--no phase
P185 <sub>b,y</sub>	Hospital (dispensary) personnel--no phase
P186 <sub>b,y</sub>	Hospital (dispensary) officers--no phase
P187 <sub>b,y</sub>	Hospital (dispensary) airmen--no phase
P188 <sub>b,y</sub>	Hoospital (dispensary) civilians--no phase
P220 <sub>b,y</sub>	Air base group personnel
P221 <sub>b,y</sub>	Hospital (dispensary) personnel

<u>Variable Names</u>	<u>Definitions</u>
P223 <sub>b,y</sub>	Officers by base
P224 <sub>b,y</sub>	Airmen by base
P225 <sub>b,y</sub>	Civilians by base
P226 <sub>b,y</sub>	Personnel by base
P227 <sub>p,b,y</sub>	Personnel by phase and base
P228 <sub>b,y</sub>	Personnel by base--no phase
P229 <sub>b,y</sub>	Students plus permanent party
P89 <sub>p,b,y</sub>	Aircraft required
P91 <sub>p,y</sub>	Aircraft available before model procurement
P92 <sub>p,y</sub>	Aircraft procured by model
P93 <sub>p,b,y</sub>	Simulators required
P94 <sub>p,b,y</sub>	Simulators available before model procurement
P95 <sub>p,b,y</sub>	Simulators procured by model
P96 <sub>p,y</sub>	Aircraft required for all bases
P300 <sub>p,y</sub>	Aircraft attrition losses
P230 <sub>p,y</sub>	Aircraft available beginning of year
P231 <sub>p,b,y</sub>	Simulators available beginning of year
P234 <sub>b,y</sub>	Rescue and recovery aircraft
P167 <sub>b,y</sub>	Support aircraft
P97 <sub>b,y</sub>	Simulator area required
P98 <sub>b,y</sub>	Simulator area available before model addition
P99 <sub>b,y</sub>	Simulator area added by model
P100 <sub>b,y</sub>	Classroom area required
P101 <sub>b,y</sub>	Classroom area available before model additions
P102 <sub>b,y</sub>	Classroom area added by model
P104 <sub>b,y</sub>	Square feet of flying training basic building
P105 <sub>b,y</sub>	Airmen dormitories
P106 <sub>b,y</sub>	Bachelor officer quarters
P107 <sub>b,y</sub>	Family housing units
P232 <sub>b,y</sub>	Simulator area available beginning of year
P233 <sub>b,y</sub>	Classroom area available beginning of year
P108 <sub>p,y</sub>	Aircraft investment cost
P109 <sub>p,y</sub>	Aircraft spares investment cost
F110 <sub>p,y</sub>	Aircraft AGE investment cost

<u>Variable Names</u>	<u>Definitions</u>
P112	Simulator spares investment cost
P115 <sub>p,b,y</sub>	Rescue and recovery aircraft investment cost
P116 <sub>y</sub>	Support aircraft investment cost
P168 <sub>y</sub>	Cumulative aircraft procured through last year
P170 <sub>p,y</sub>	Simulator investment cost
P340 <sub>p,b,y</sub>	Recurring modifications cost
P118 <sub>p,y</sub>	Increase in military by phase
P119 <sub>p,b,y</sub>	Increase in officers by phase
P120 <sub>p,b,y</sub>	Training investment cost for officers less students
P121 <sub>p,b,y</sub>	Travel investment cost for officers less students
P122 <sub>p,b,y</sub>	Increase in airmen
P123 <sub>p,b,y</sub>	Training investment cost for airmen
P124 <sub>p,b,y</sub>	Travel investment cost for airmen
P113 <sub>p,b,y</sub>	Base support equipment investment cost
P114 <sub>p,b,y</sub>	Training equipment investment cost
P117 <sub>p,b,y</sub>	Stocks investment cost
P344 <sub>p,b</sub>	Maximum military over all years
P345 <sub>p,b</sub>	Maximum students over all years
P346 <sub>b</sub>	Maximum officers plus airmen over all years
P125 <sub>b,y</sub>	Increase in military--no phase
P126 <sub>b,y</sub>	Base support equipment investment cost--no phase
P127 <sub>b,y</sub>	Stocks investment cost--no phase
P128 <sub>b,y</sub>	Increase in officers--no phase
P129 <sub>b,y</sub>	Increase in airmen--no phase
P130 <sub>b,y</sub>	Training investment cost for officers--no phase
P131 <sub>b,y</sub>	Travel investment cost for officers--no phase
P132 <sub>b,y</sub>	Training investment cost for airmen--no phase
P133 <sub>b,y</sub>	Travel investment cost for airmen--no phase
P134 <sub>p,b,y</sub>	Runway investment cost
P135 <sub>b,y</sub>	Additional UPT base investment cost
P136 <sub>b,y</sub>	Simulator area investment cost
P137 <sub>b,y</sub>	Classroom area investment cost
P138 <sub>p,b,y</sub>	Officer pay and allowance by phase



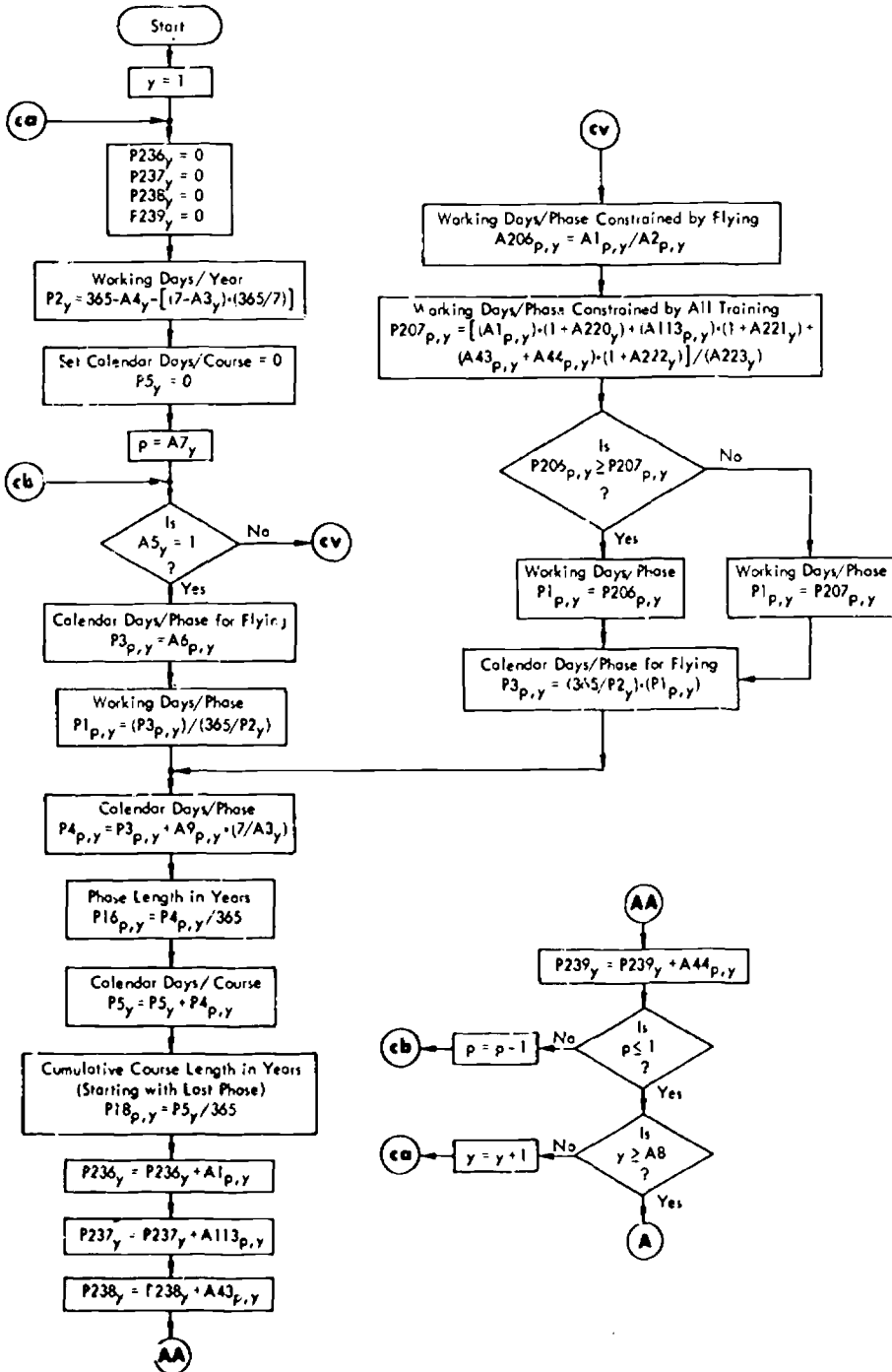
<u>Variable Names</u>	<u>Definitions</u>
P139 p,b,y	Airmen pay and allowance by phase
P140 p,b,y	Civilian pay and allowance by phase
P141 p,b,y	Annual training cost for officers by phase
P142 p,b,y	Annual travel cost for officers by phase
P143 p,b,y	Annual training cost for airmen by phase
P144 p,b,y	Annual travel cost for airmen by phase
P145 p,b,y	Annual travel cost for students by phase
P146 p,b,y	Facility O&M operating cost by phase
P147 p,b,y	Supplies and services cost by phase
P148 b,y	Officer pay and allowance--no phase
P149 b,y	Airmen pay and allowance--no phase
P150 b,y	Civilian pay and allowance--no phase
P151 b,y	Annual training cost for officers--no phase
P152 b,y	Annual travel cost for officers--no phase
P153 b,y	Annual travel cost for students--no phase
P154 b,y	Annual training cost for airmen--no phase
P155 b,y	Annual travel cost for airmen--no phase
P156 b,y	Facilities O&M cost--no phase
P157 b,y	Supplies and services cost--no phase
P158 p,b,y	Contract training cost
P159 p,b,y	Depot maintenance cost
P160 p,b,y	Base material cost
P161 p,b,y	POI cost
P162 p,b,y	Simulator O&M cost
P166 b,y	Flying hours/year for support aircraft
P198 p,b,y	Contract maintenance cost
P200 b,y	Support aircraft O&M cost
P261 b,y	Rescue and recovery, aircraft O&M cost
P262 b,y	Flying hours/year for rescue and recovery aircraft
P236 b,y	Simulator investment cost by base
P237 b,y	Simulator spares cost by base
P238 b,y	Training equipment cost by base
P239 b,y	Base support equipment cost by base
P240 b,y	Runways cost by base

<u>Variable Names</u>	<u>Definitions</u>
P241 <sub>b,y</sub>	Stocks cost by base
P242 <sub>b,y</sub>	Initial training cost by base
P243 <sub>b,y</sub>	Initial travel cost by base
P244 <sub>b,y</sub>	Depot maintenance cost by base
P245 <sub>b,y</sub>	Base material cost by base
P246 <sub>b,y</sub>	Contracted maintenance cost by base
P247 <sub>b,y</sub>	POL cost by base
P248 <sub>b,y</sub>	Simulator maintenance cost by base
P249 <sub>b,y</sub>	Facility maintenance cost by base
P250 <sub>b,y</sub>	Contracted flying training cost by base
P251 <sub>b,y</sub>	Officer pay and allowance cost by base
P252 <sub>b,y</sub>	Airmen pay and allowance cost by base
P253 <sub>b,y</sub>	Civilian pay cost by base
P254 <sub>b,y</sub>	Training cost by base
P255 <sub>b,y</sub>	Travel cost by base
P256 <sub>b,y</sub>	Supplies and services cost by base
P257 <sub>p,b,y</sub>	Total costs by phase
P258 <sub>b,y</sub>	Total cost assignable to phase plus total cost not assignable to phase
P259 <sub>b,y</sub>	Total cost not assignable to phase
P266 <sub>y</sub>	Training aircraft cost not assignable to base
P267 <sub>y</sub>	Training aircraft spares not assignable to base
P268 <sub>y</sub>	Aerospace ground equipment not assignable to base
P269 <sub>y</sub>	RDTGE cost not assignable to base
P341 <sub>y</sub>	Recurring modifications cost not assignable to base
P263 <sub>b,y</sub>	Total investment cost by base
P264 <sub>b,y</sub>	Total operating cost by base
P265 <sub>b,y</sub>	Total housing cost by base
P270 <sub>p,y</sub>	Total cost by phase not assignable to base
P271 <sub>y</sub>	Total cost not assignable to base or phase
P272 <sub>y</sub>	Total cost not assignable to base
P273 <sub>y</sub>	Total cost not assignable to base or phase plus total cost not assignable to base

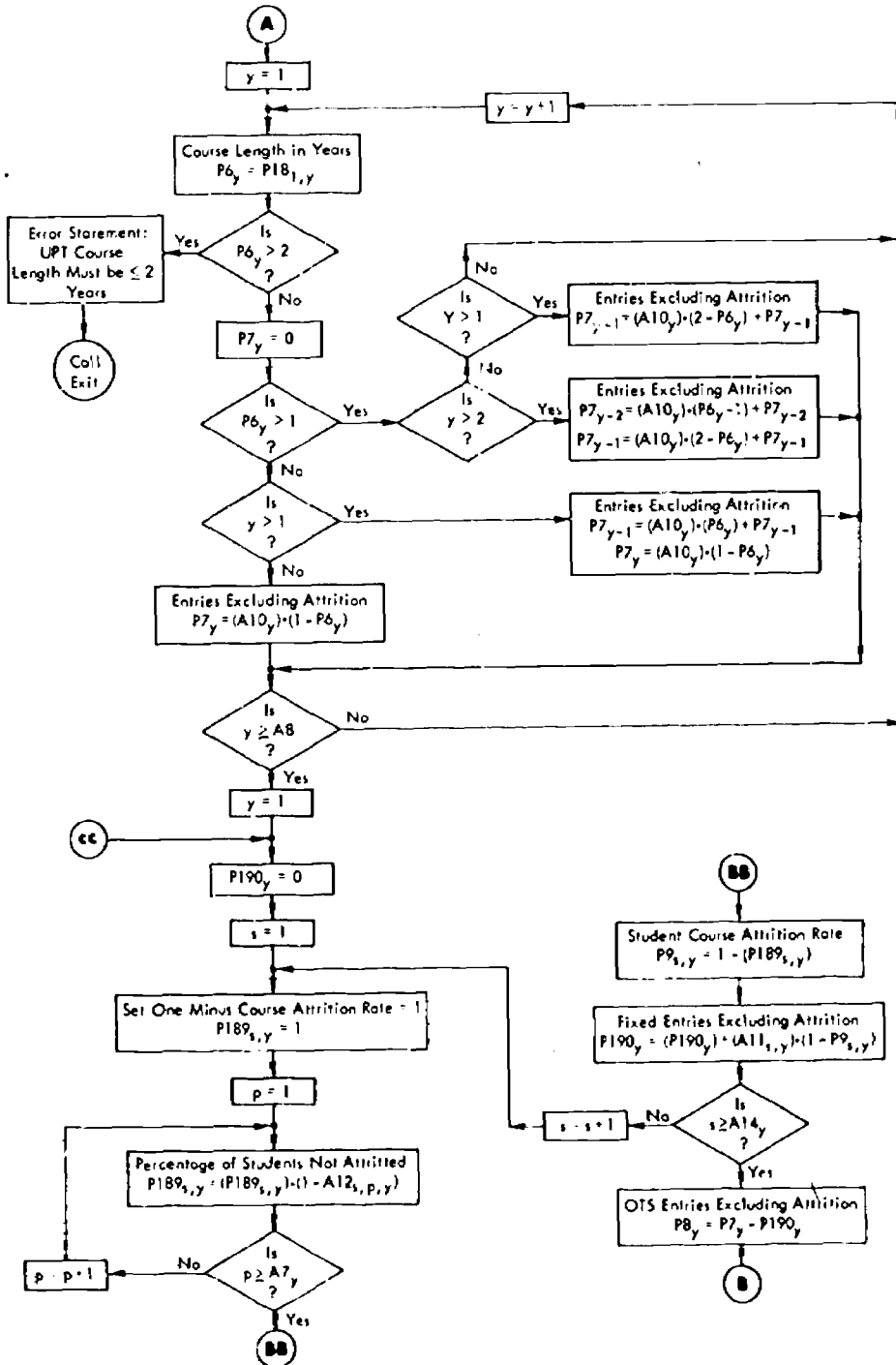
<u>Variable Names</u>	<u>Definitions</u>
P274 y	Investment cost not assignable to base or phase
P276 p,y	Investment cost by phase
P277 p,y	Operating cost by phase
P278 p,y	Total cost by phase
P279 p,y	Simulator cost by phase
P280 p,y	Simulator spares cost by phase
P281 p,y	Training equipment cost by phase
P282 p,y	Base support equipment cost by phase
P283 p,y	Runways cost by phase
P284 p,y	Stocks cost by phase
P285 p,y	Initial training cost by phase
P286 p,y	Initial travel cost by phase
P287 p,y	Depot maintenance cost by phase
P288 p,y	Base material cost by phase
P289 p,y	Contracted maintenance cost by phase
P290 p,y	POL cost by phase
P291 p,y	Simulator maintenance cost by phase
P292 p,y	Facility maintenance cost by phase
P293 p,y	Contracted flying training cost by phase
P294 p,y	Officer pay and allowance cost by phase
P295 p,y	Airmen pay and allowance cost by phase
P296 p,y	Civilian pay cost by phase
P297 p,y	Training cost by phase
P298 p,y	Travel cost by phase
P299 p,y	Supplies and service cost by phase
PP300 y	Base support equipment cost not assignable to phase
P301 y	New base conversion cost not assignable to phase
P302 y	Simulator building cost not assignable to phase
P303 y	Classroom building cost not assignable to phase
P304 y	Flying training basic building cost not assignable to phase
P305 y	Housing cost not assignable to phase
P306 y	Other cost not assignable to phase

<u>Variable Names</u>	<u>Definitions</u>
307 <sub>y</sub>	Stocks cost not assignable to phase
P308 <sub>y</sub>	Initial training cost not assignable to phase
P309 <sub>y</sub>	Initial travel cost not assignable to phase
P310 <sub>y</sub>	Support A/C O&M cost not assignable to phase
P311 <sub>y</sub>	Rescue and recovery A/C O&M cost not assignable to phase
P312 <sub>y</sub>	Facility maintenance cost not assignable to phase
P313 <sub>y</sub>	Officer pay and allowance cost not assignable to phase
P314 <sub>y</sub>	Airmen pay and allowance cost not assignable to phase
P315 <sub>y</sub>	Civilian pay and allowance cost not assignable to phase
P316 <sub>y</sub>	Training cost not assignable to phase
P317 <sub>y</sub>	Travel cost not assignable to phase
P318 <sub>y</sub>	Supplies and Services cost not assignable to phase
P319 <sub>y</sub>	Investment cost not assignable to phase
P320 <sub>y</sub>	Operating cost not assignable to phase
P321 <sub>y</sub>	Total cost not assignable to phase
P332 <sub>y</sub>	Total UPT cost by year
P333 <sub>y</sub>	Total UPT RDT&E cost by year
P334 <sub>y</sub>	Total UPT investment cost by year
P335 <sub>y</sub>	Total UPT operating cost by year

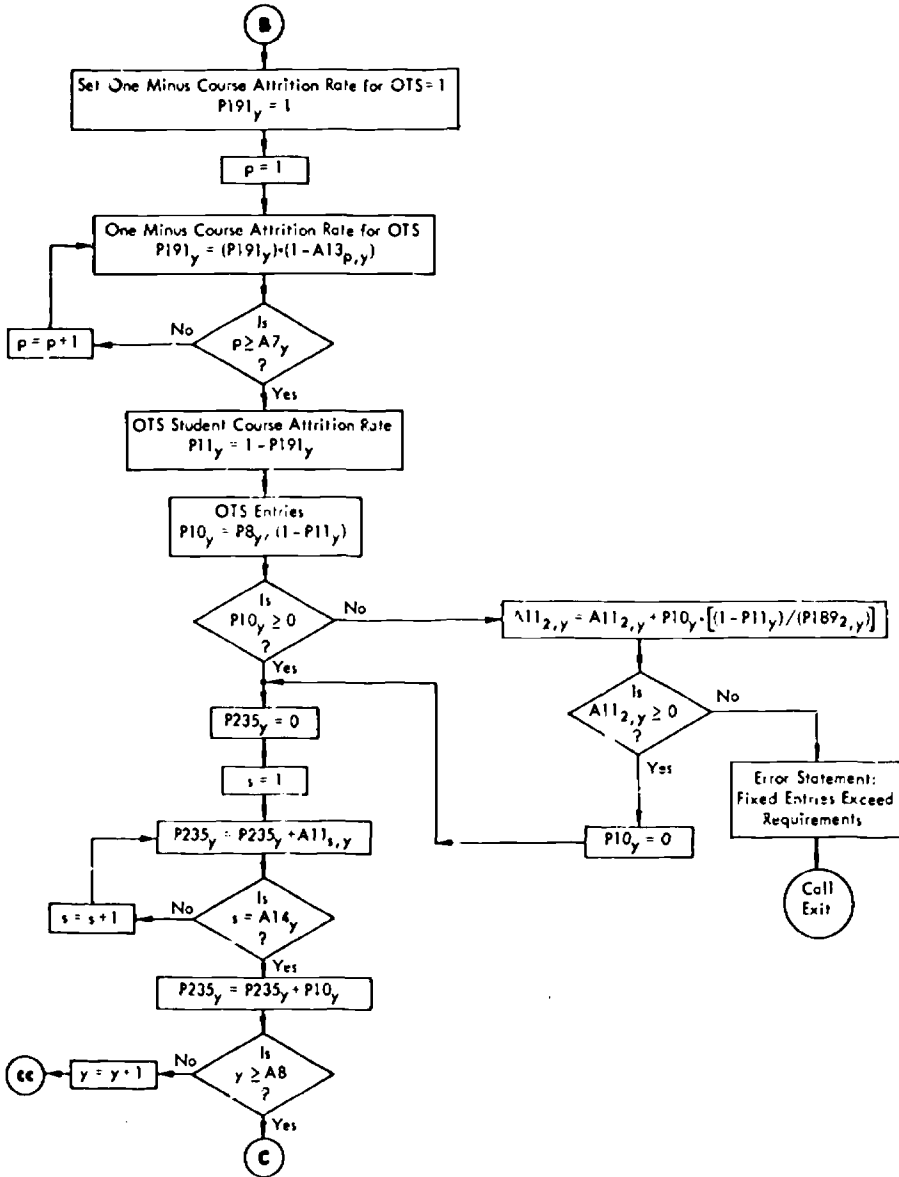
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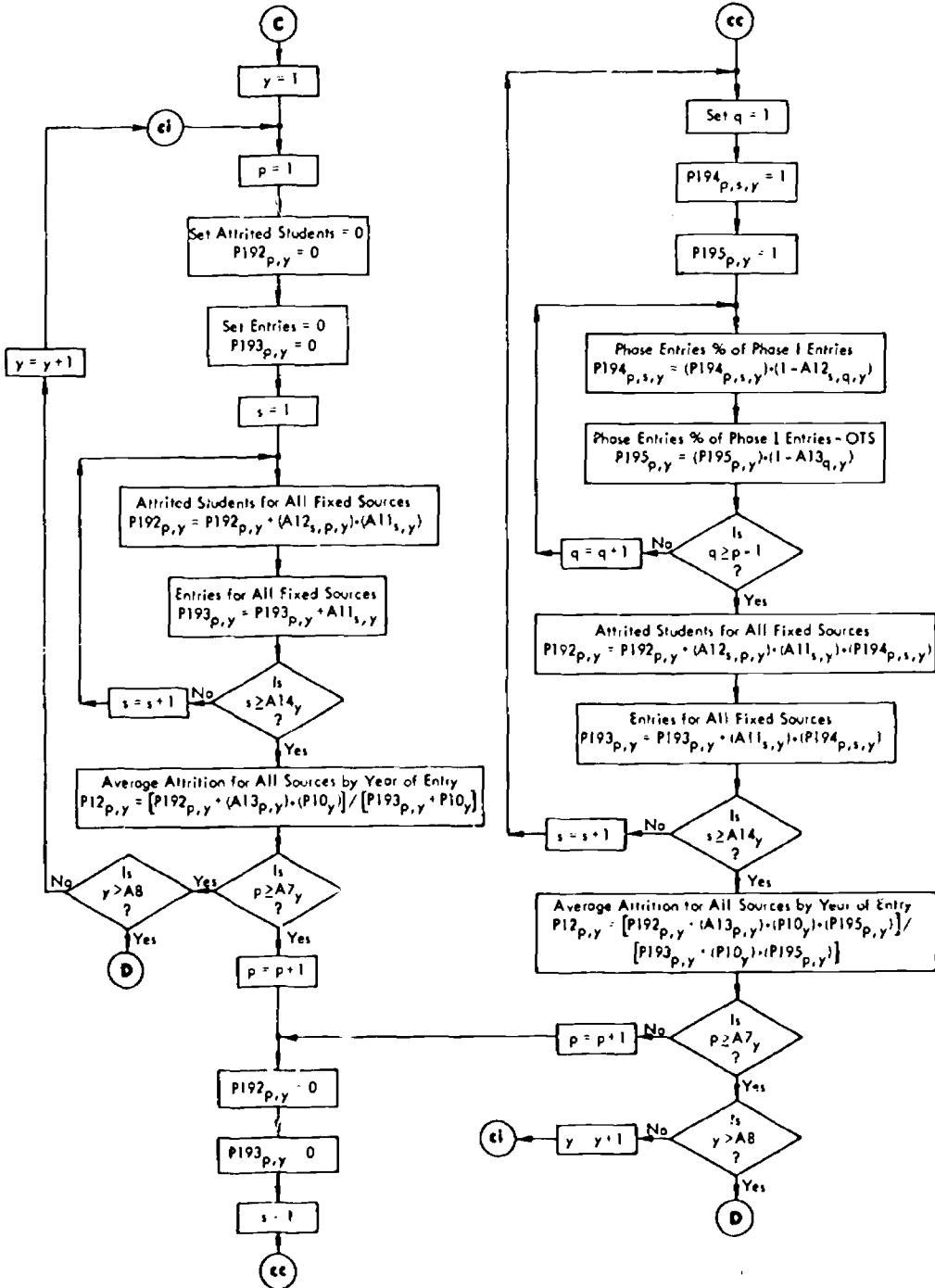
SEGMENT TWO: STUDENT LOAD



SEGMENT TWO: STUDENT LOAD

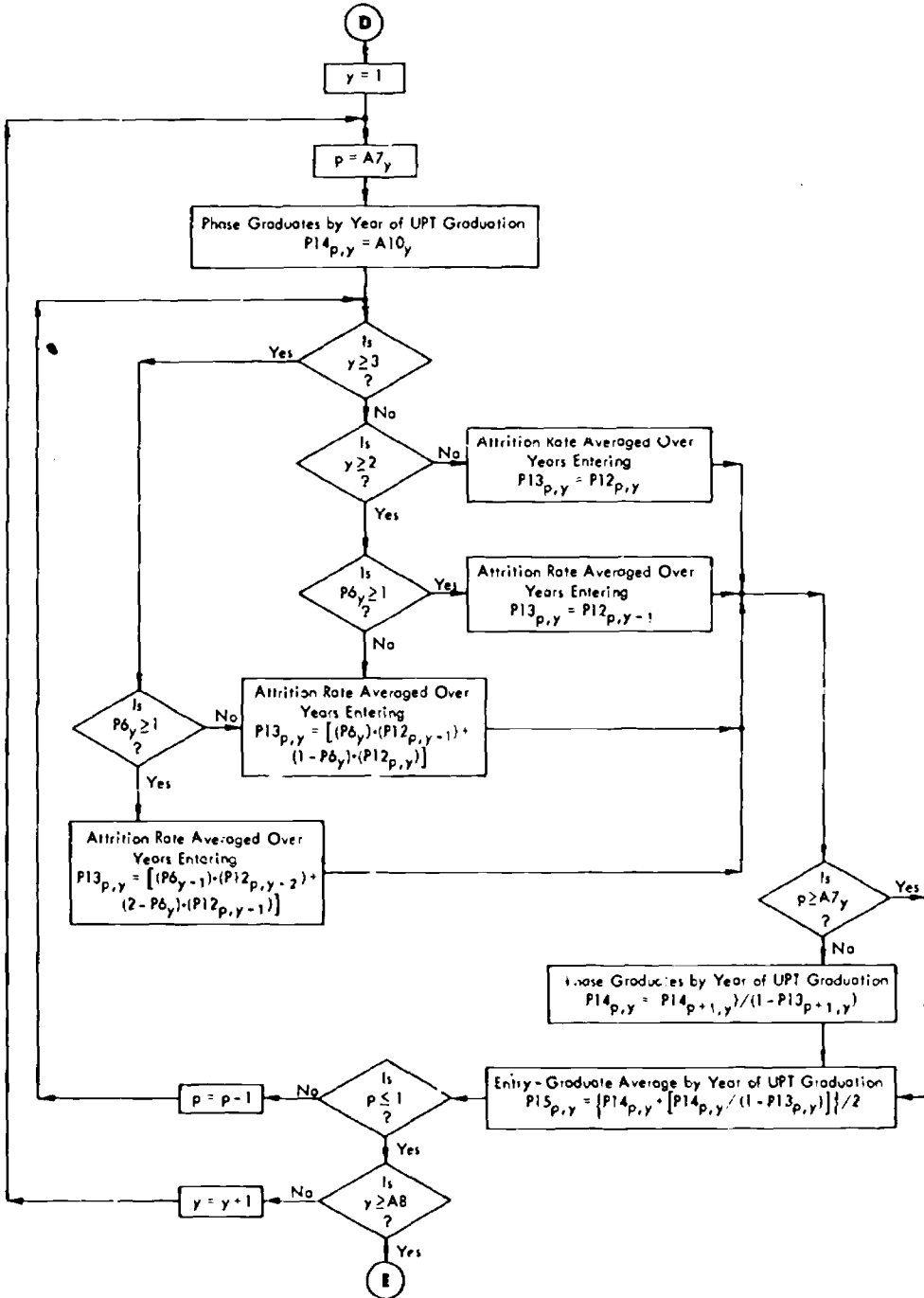


SEGMENT TWO: STUDENT LOAD

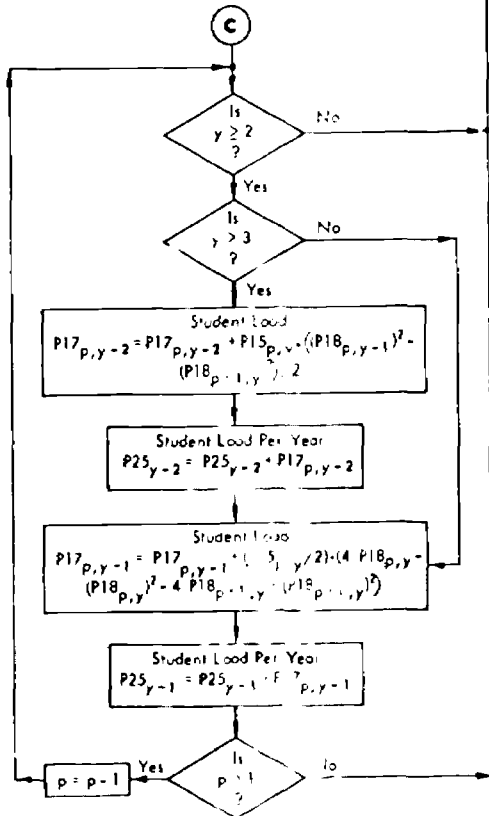
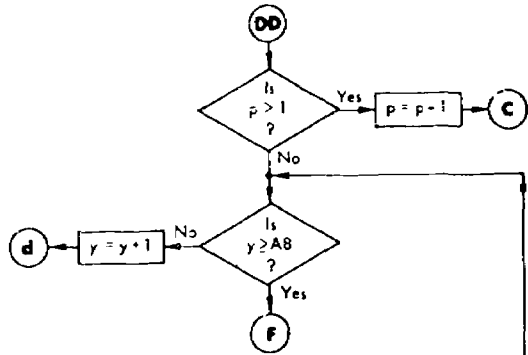
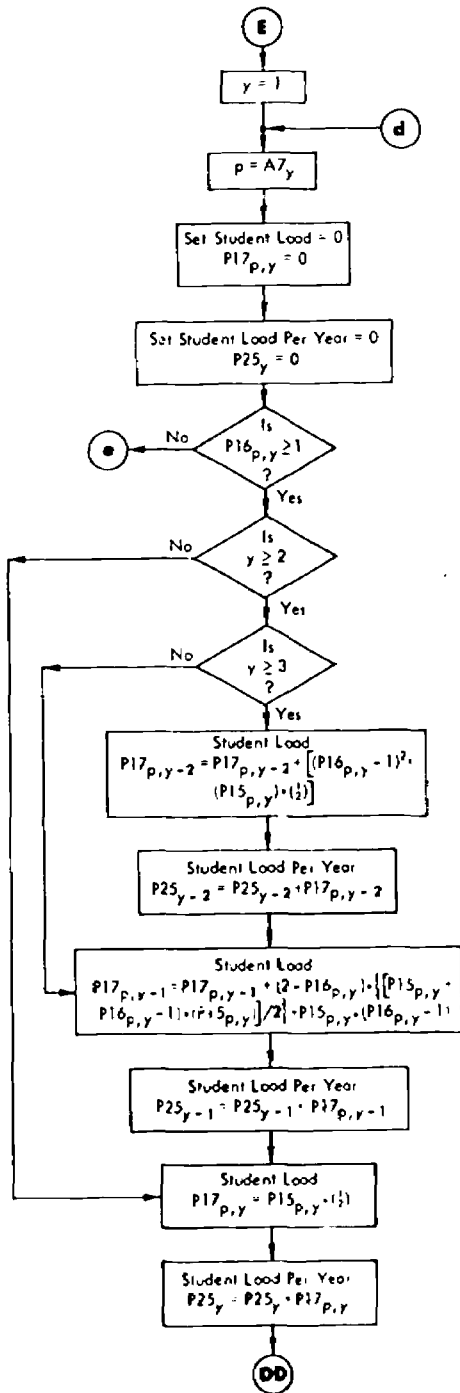




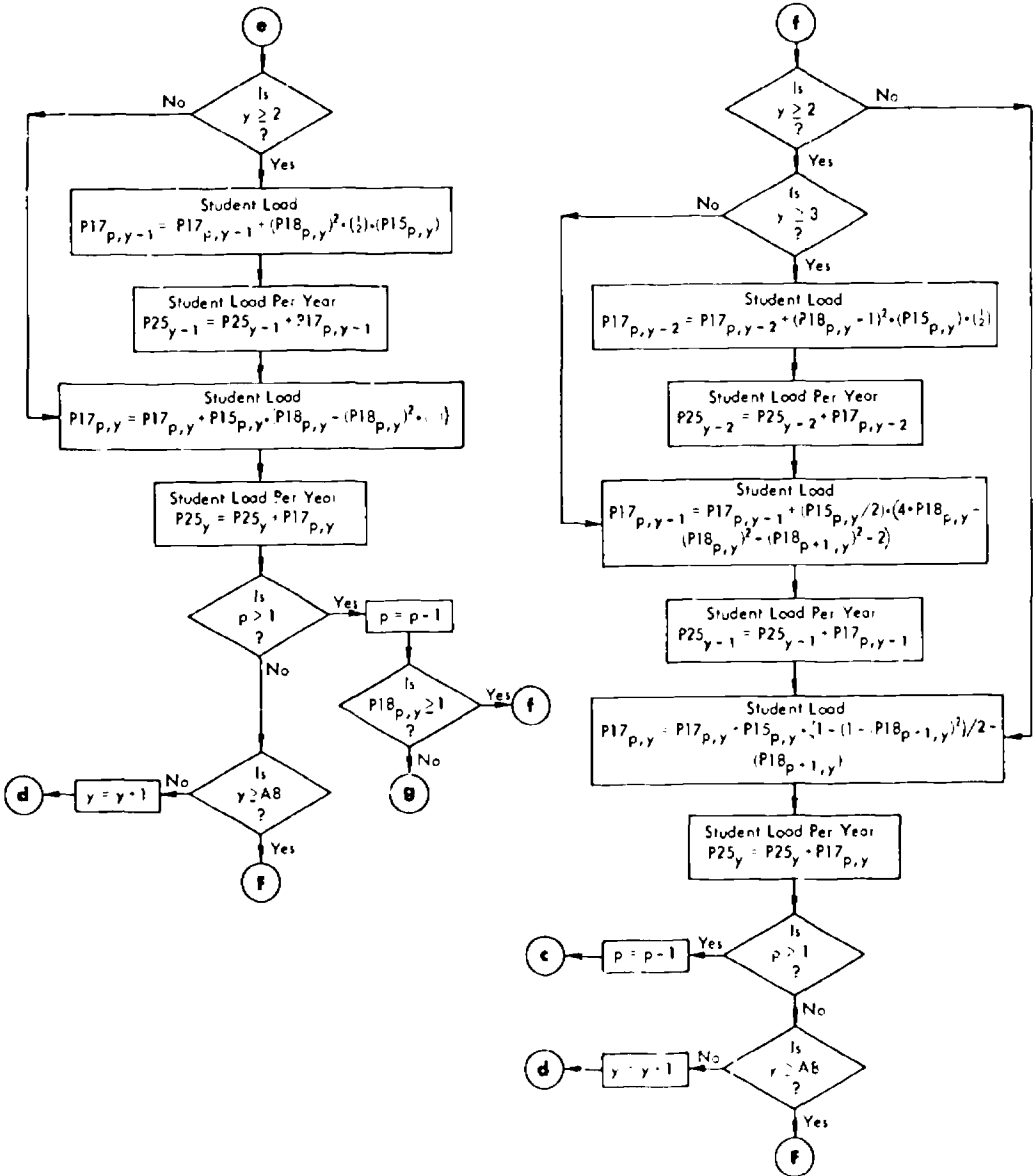
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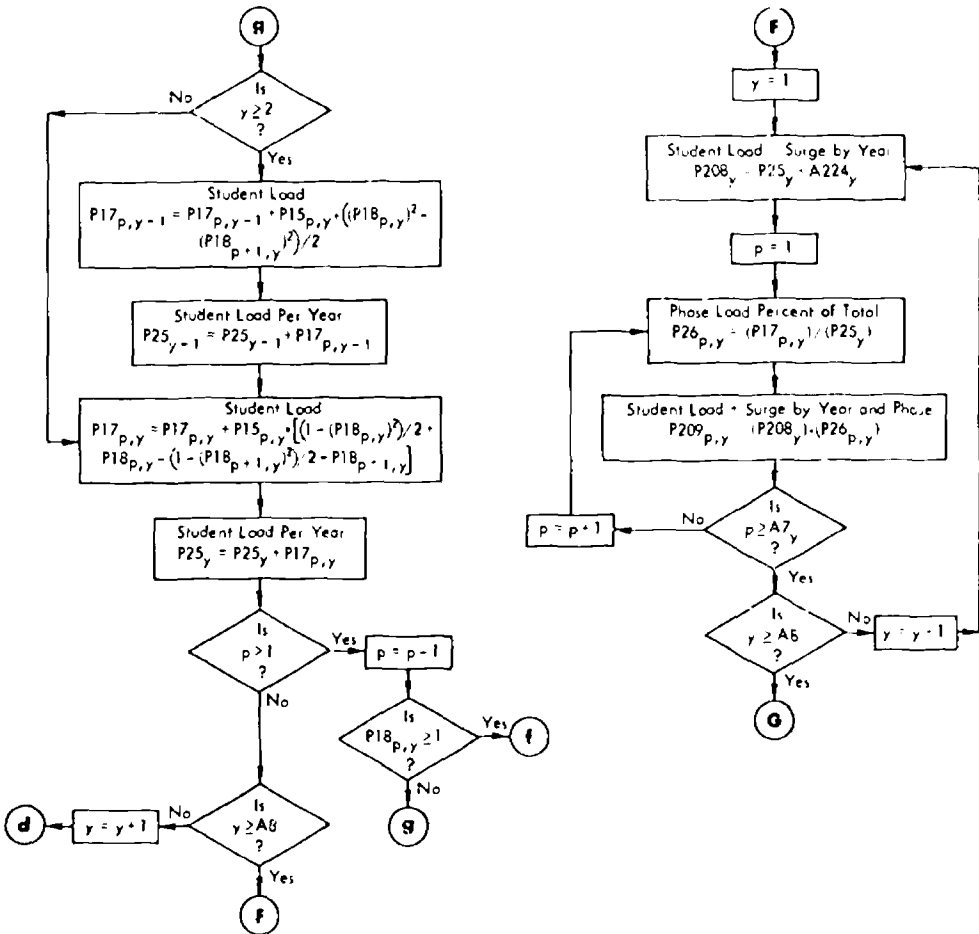
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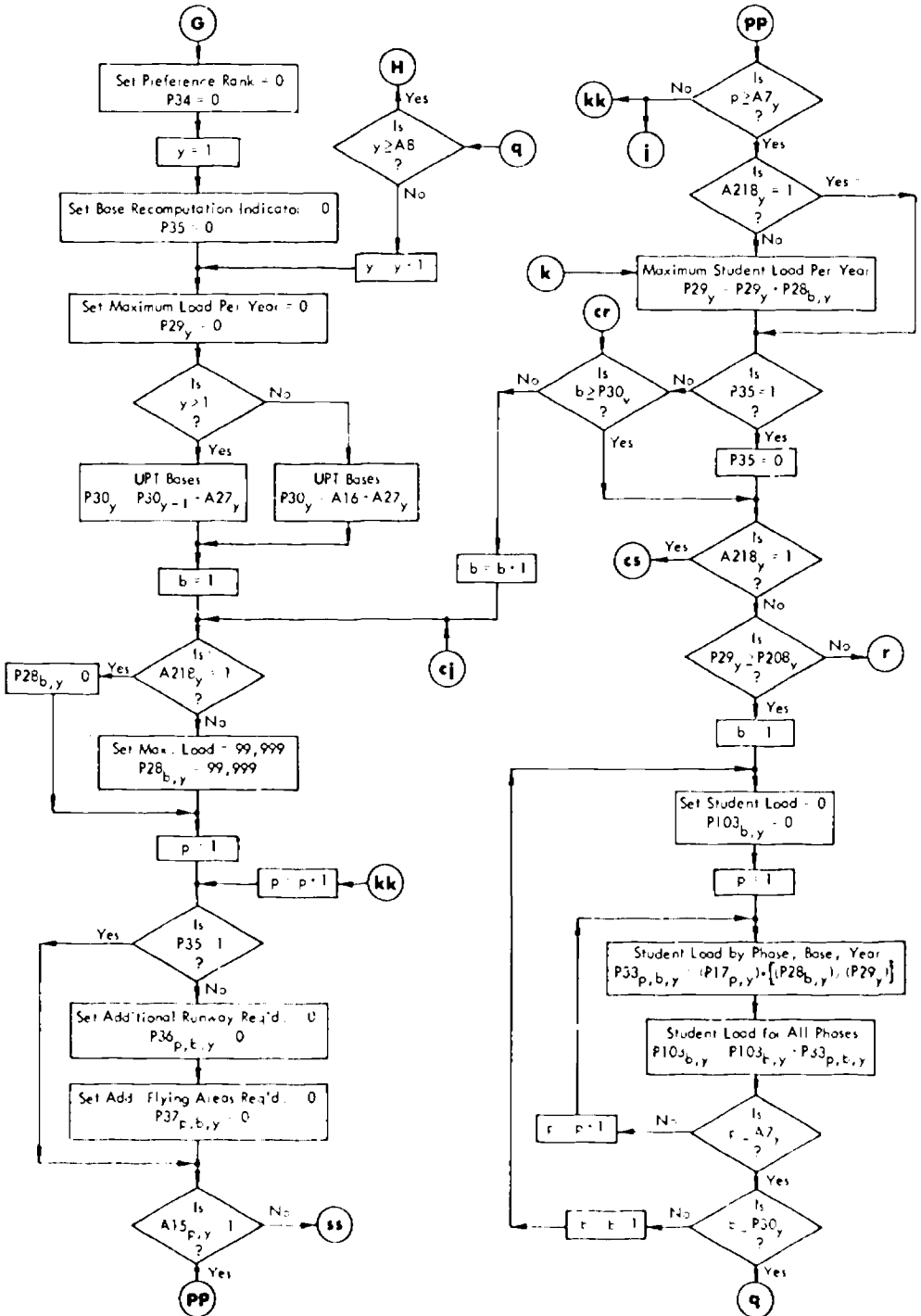
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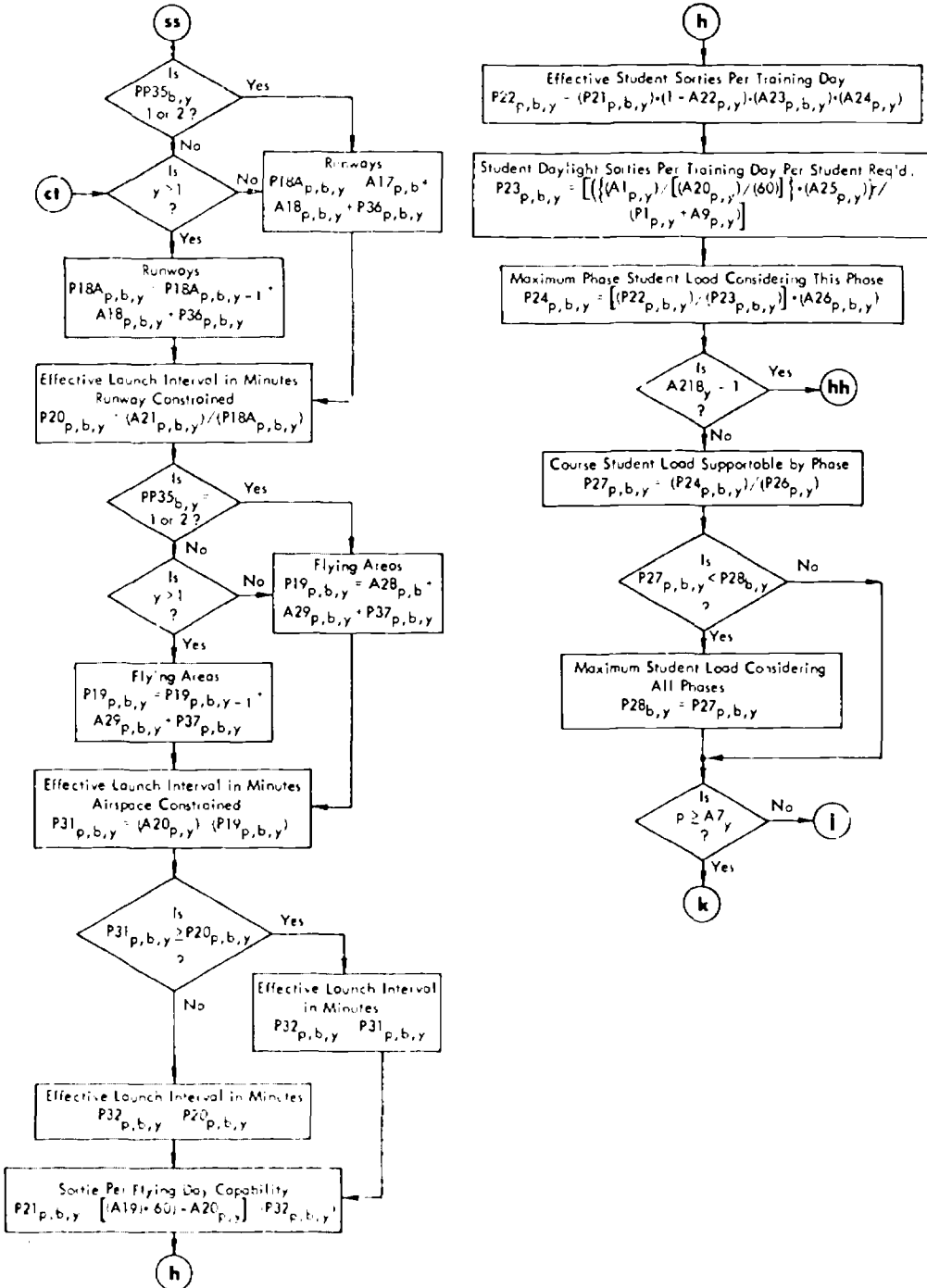
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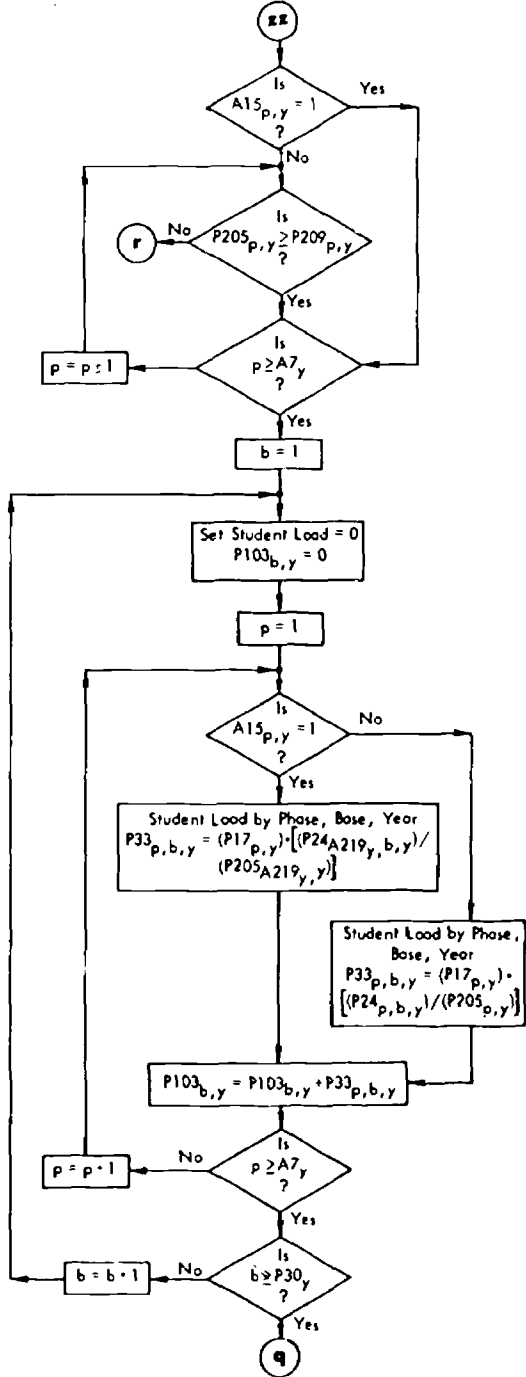
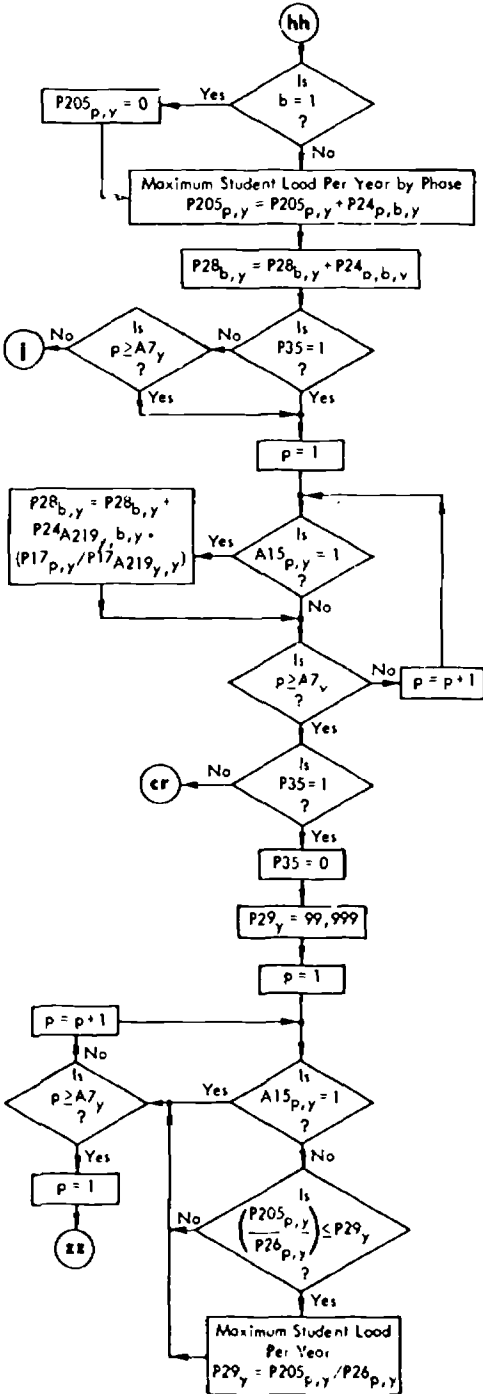
SEGMENT THREE TRAINING CAPACITY



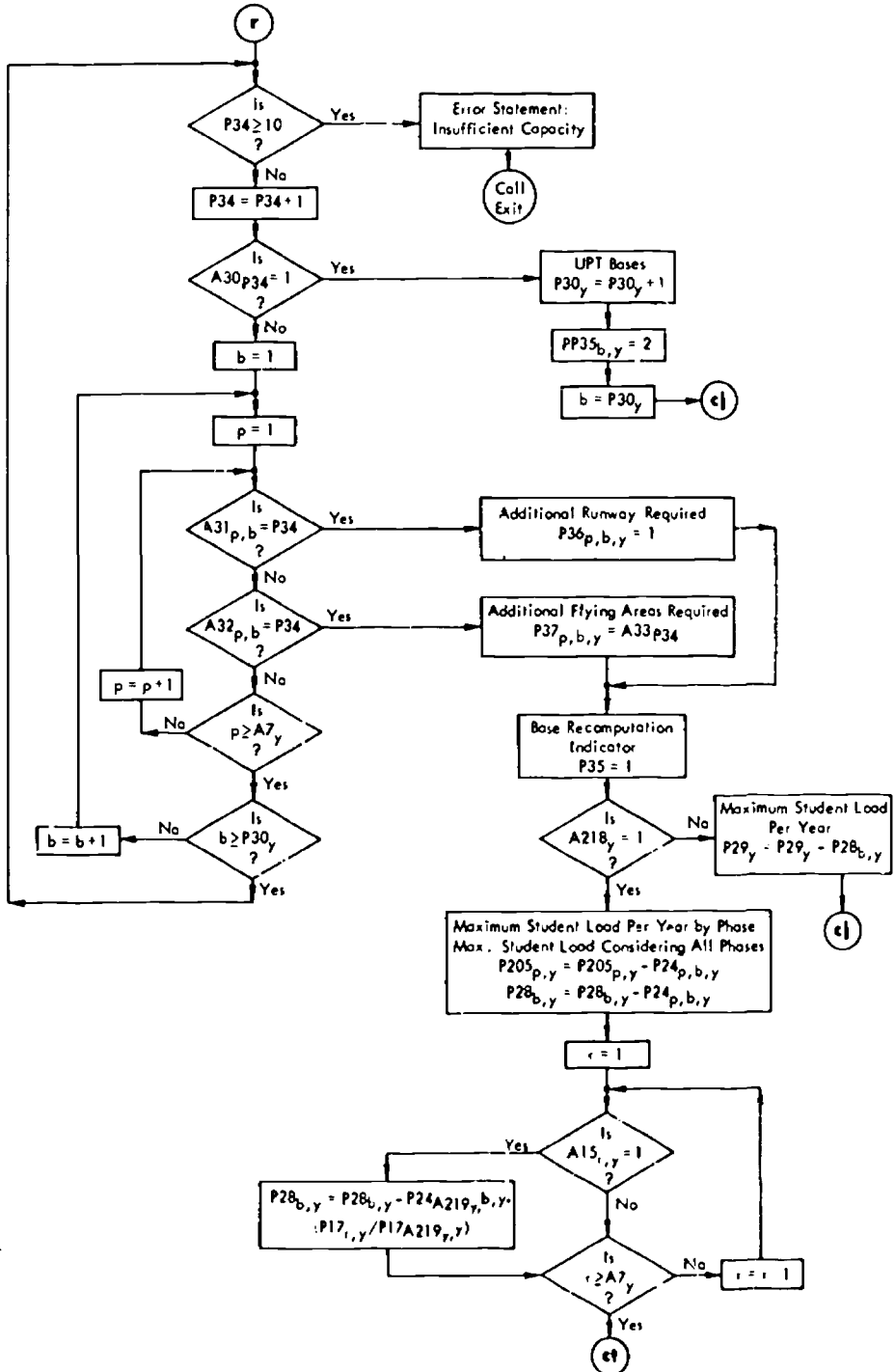
SEGMENT THREE TRAINING CAPACITY



SEGMENT THREE: TRAINING CAPACITY

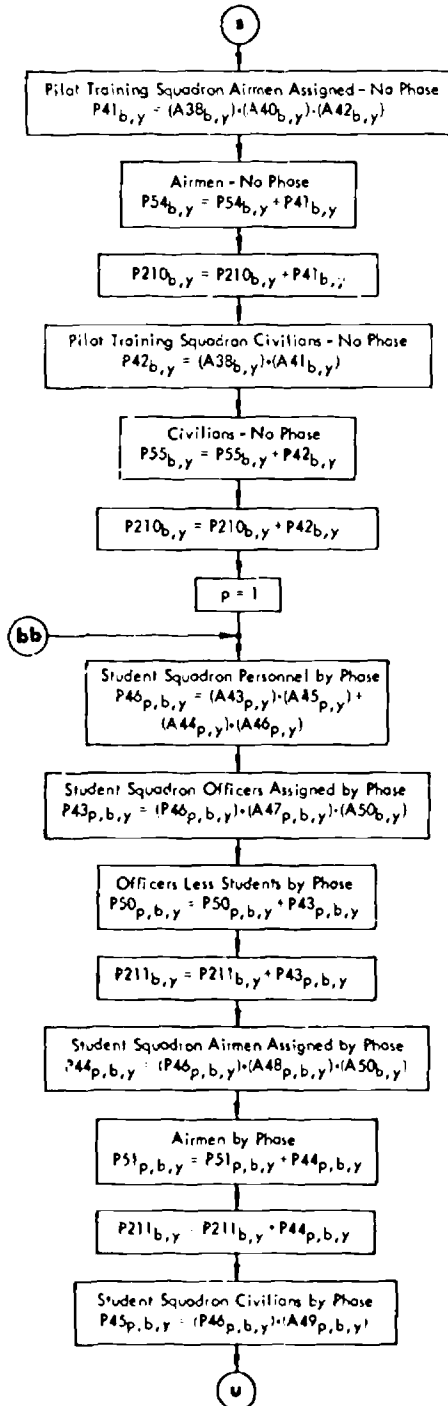
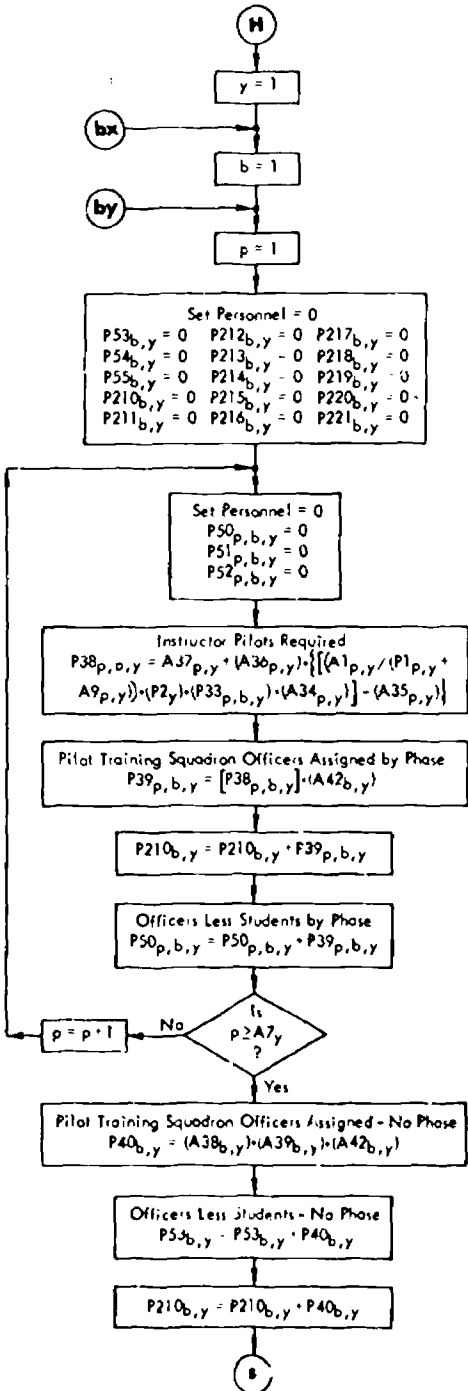


SEGMENT THREE: TRAINING CAPACITY

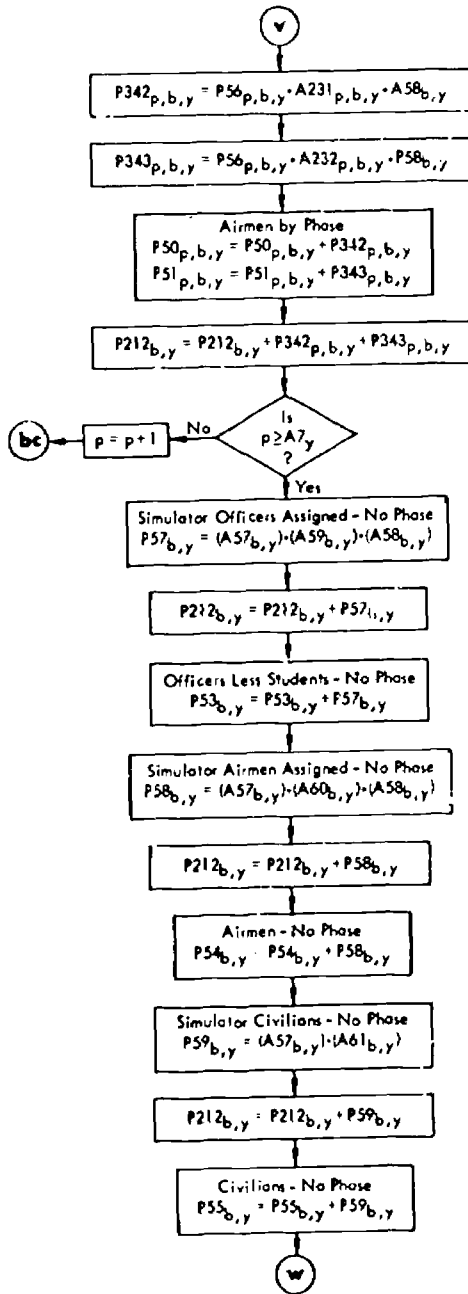
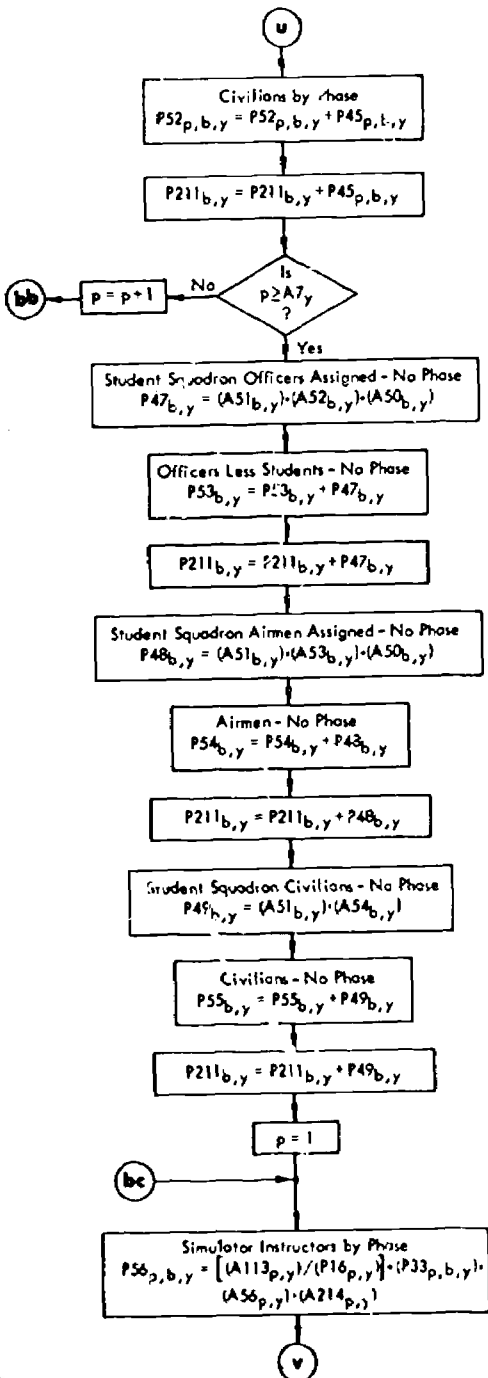




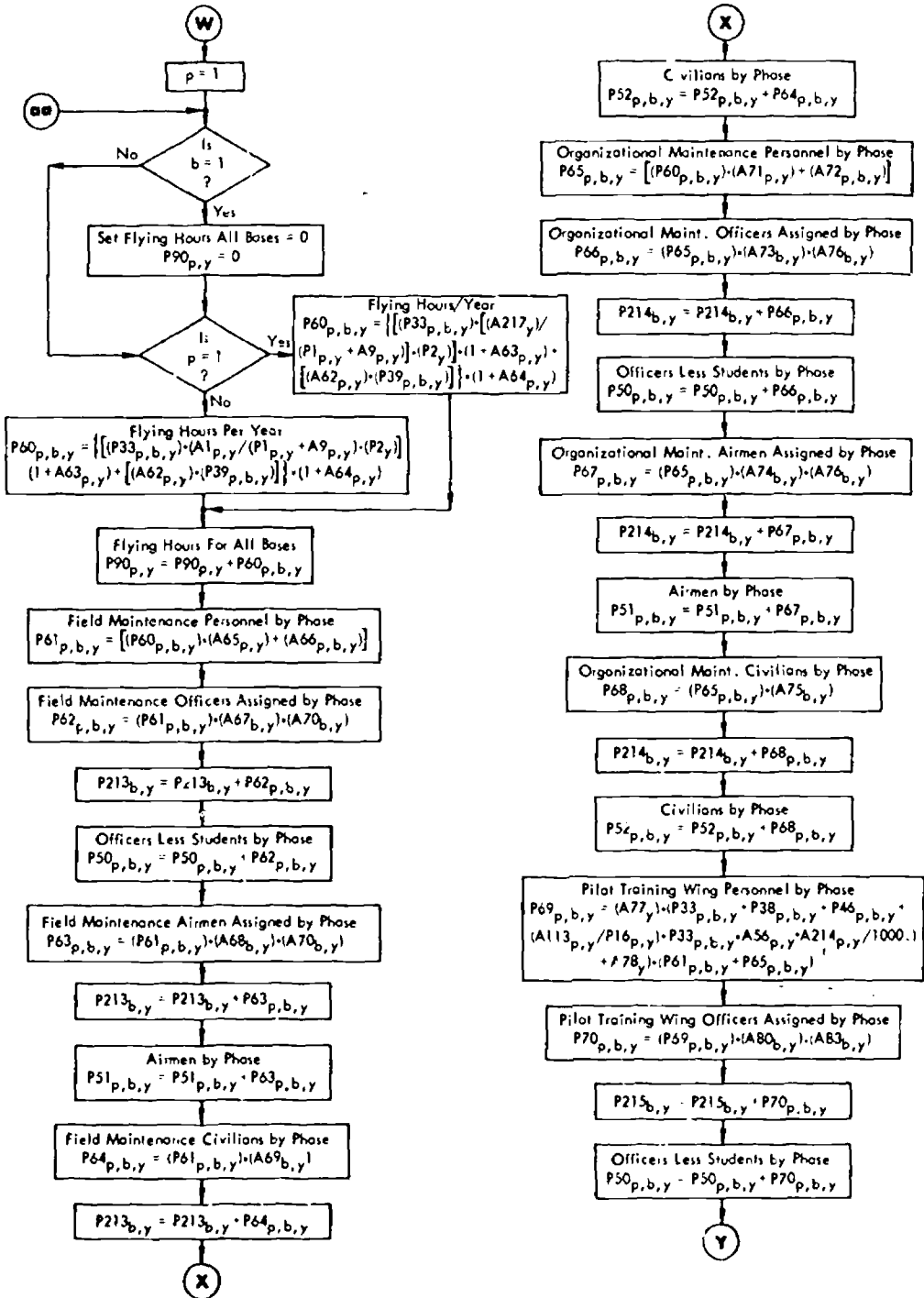
SEGMENT FOUR: MANPOWER



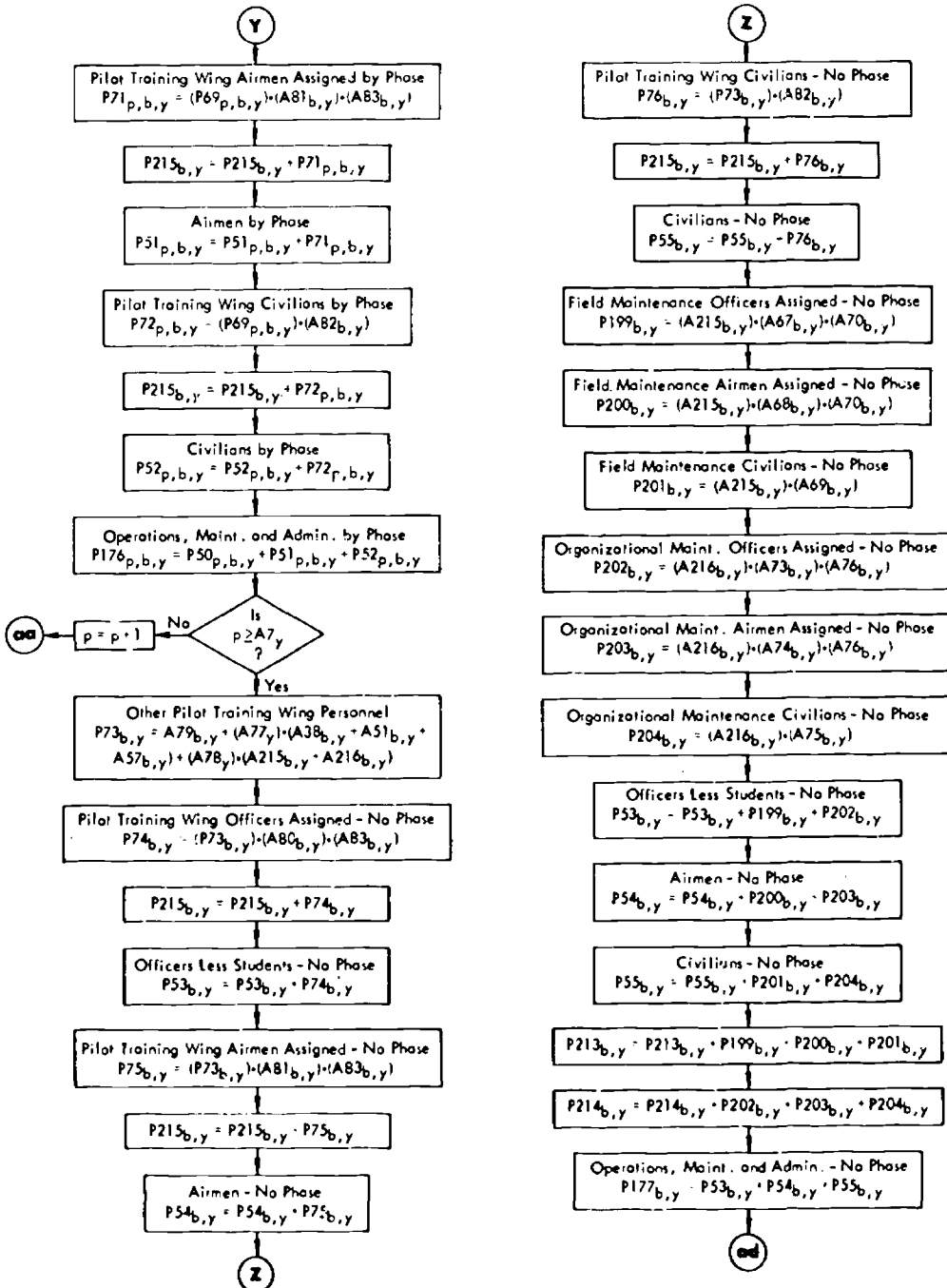
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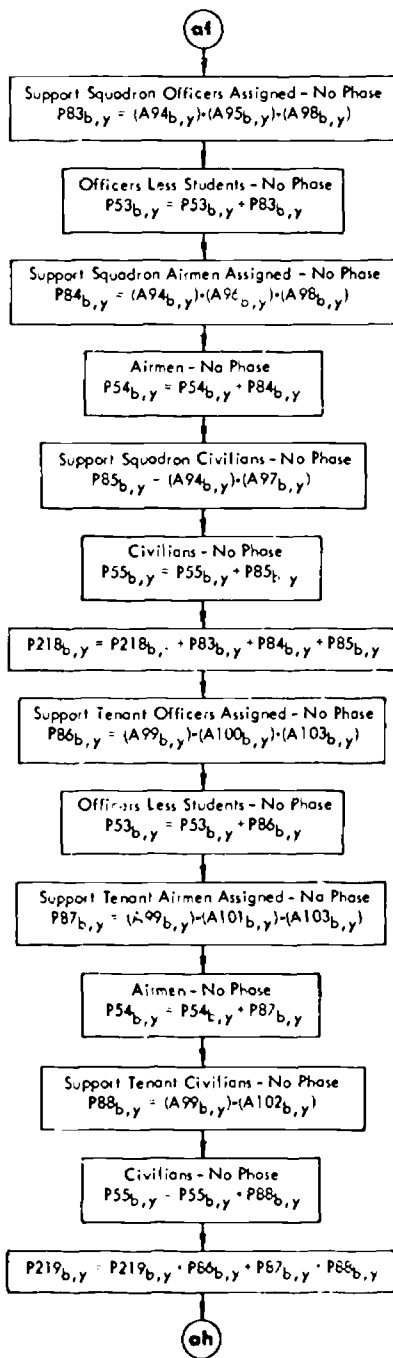
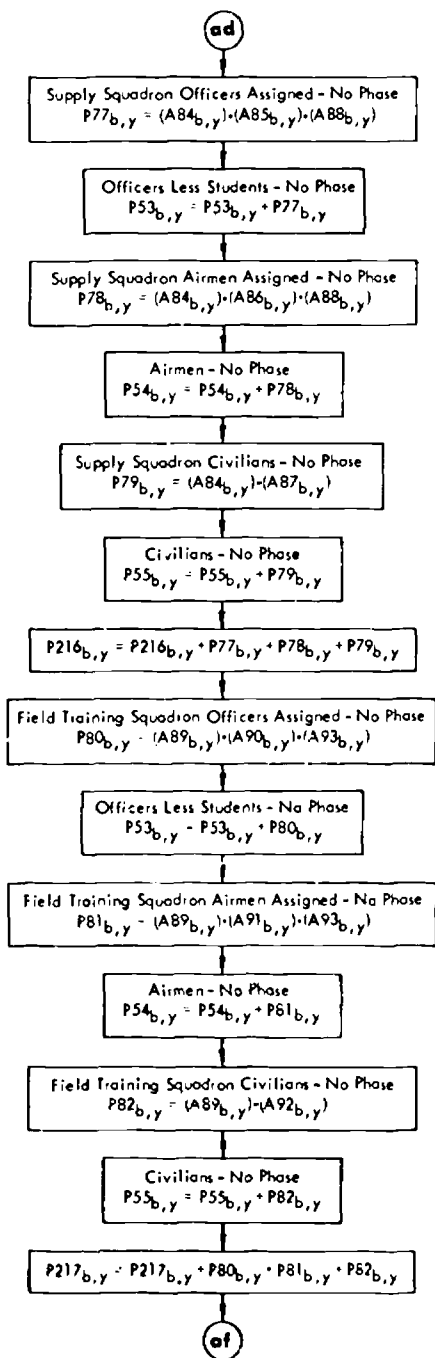
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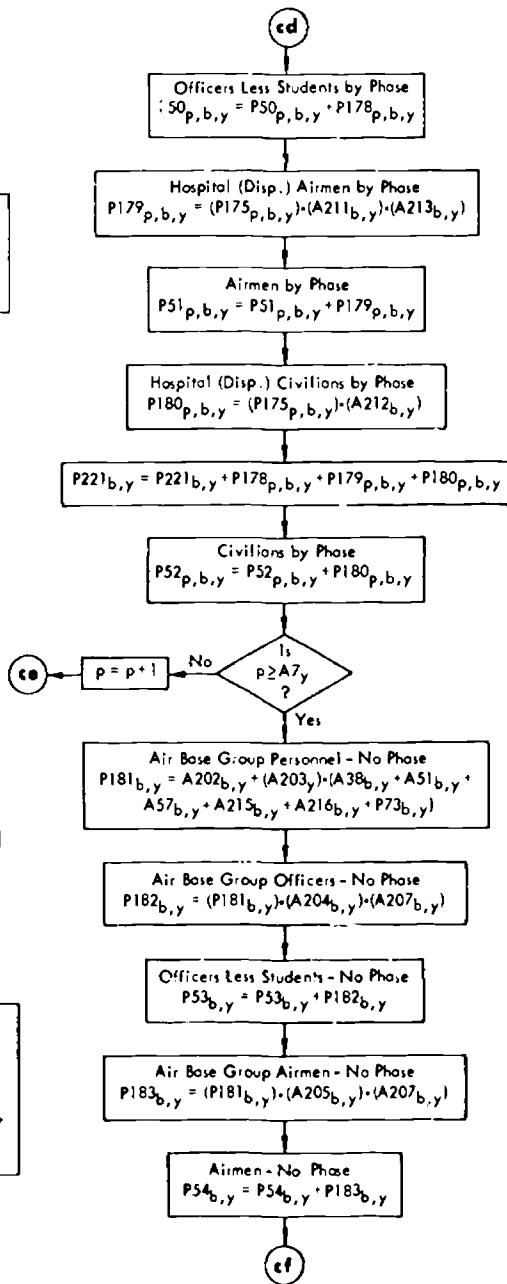
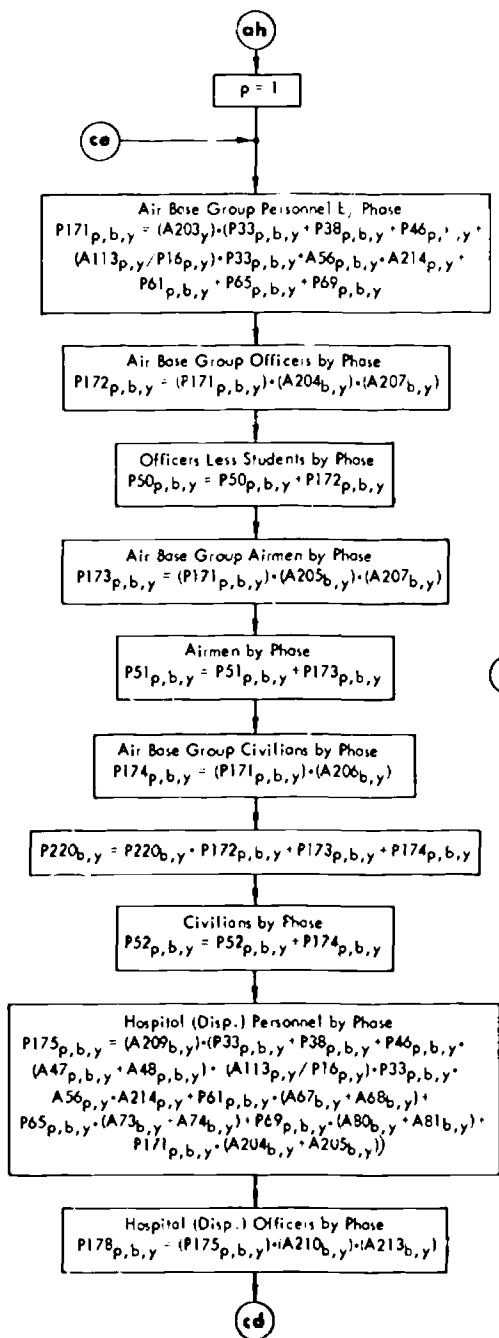
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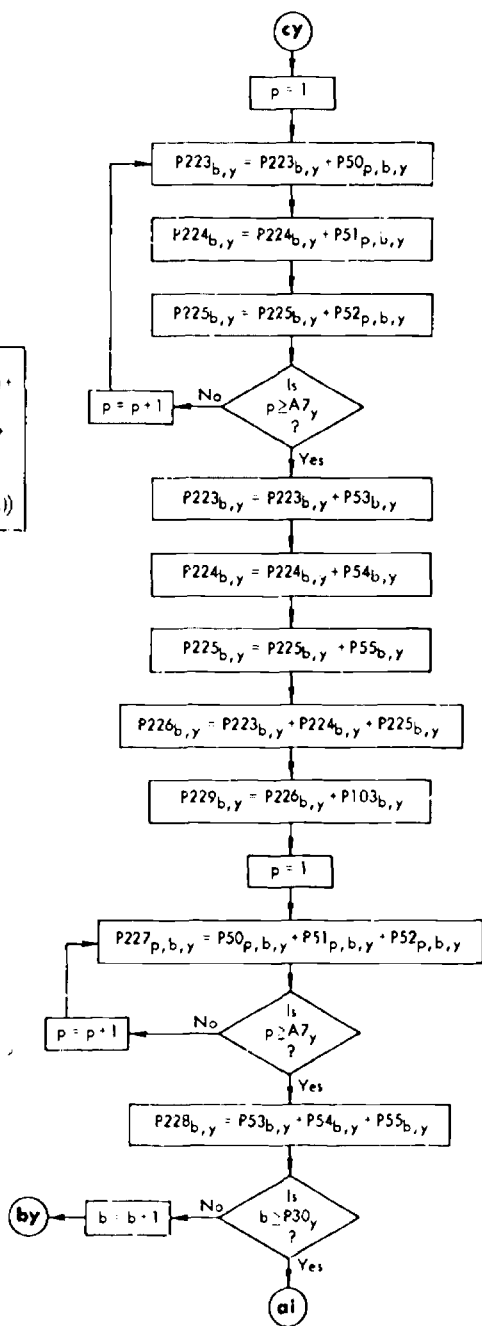
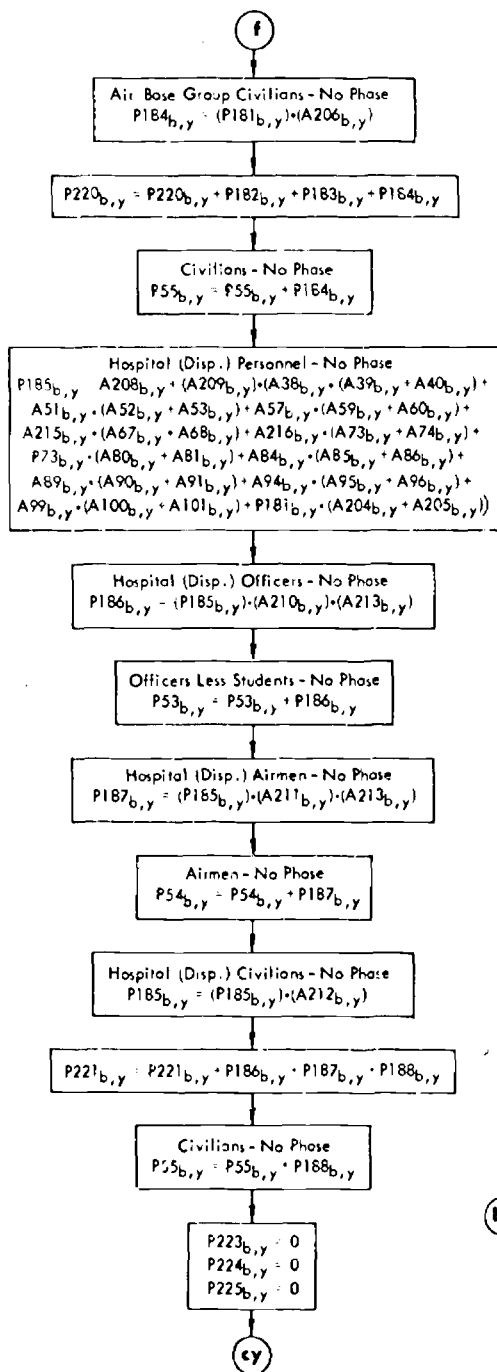
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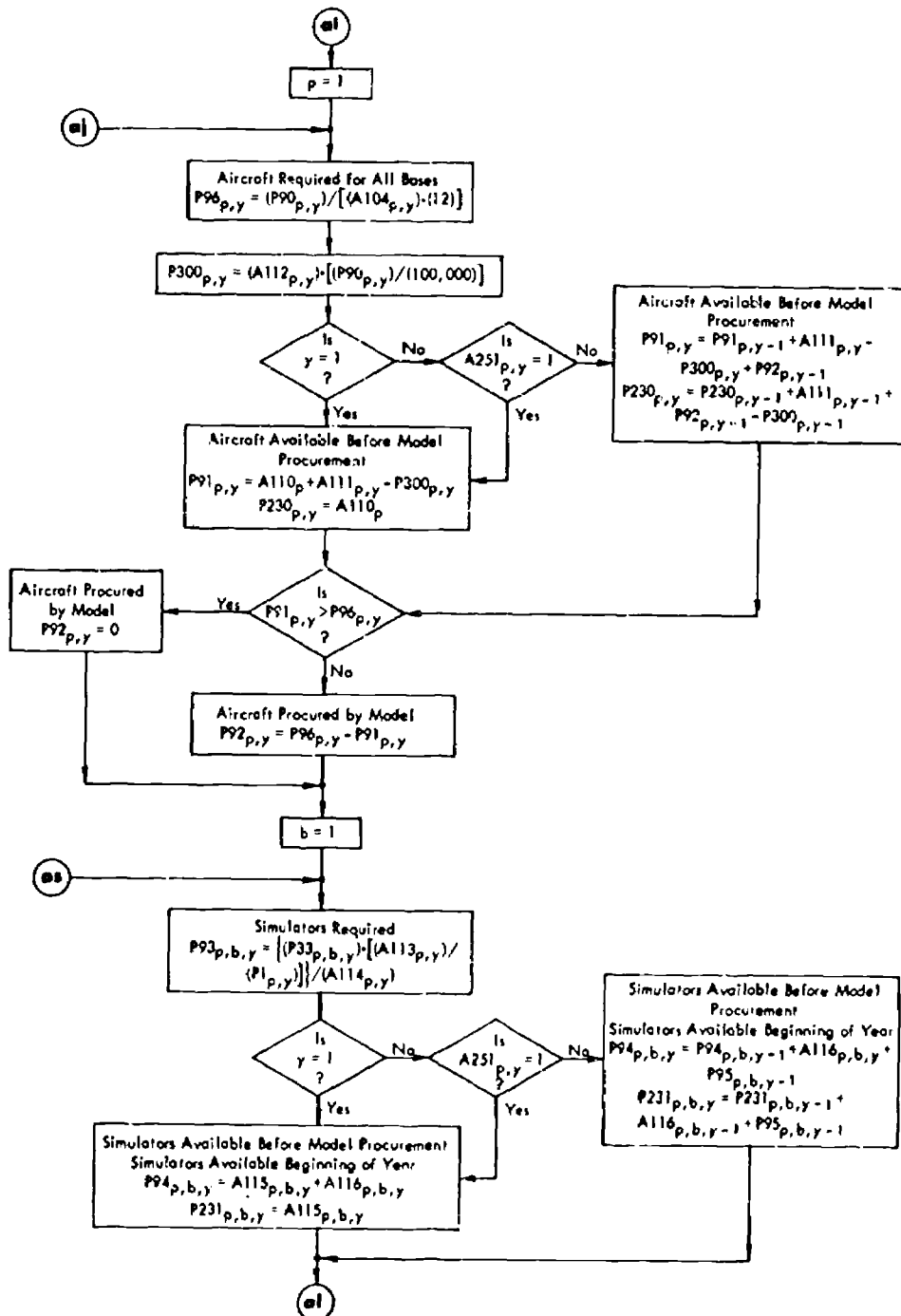
SEGMENT FOUR: MANPOWER



SEGMENT FOUR: MANPOWER

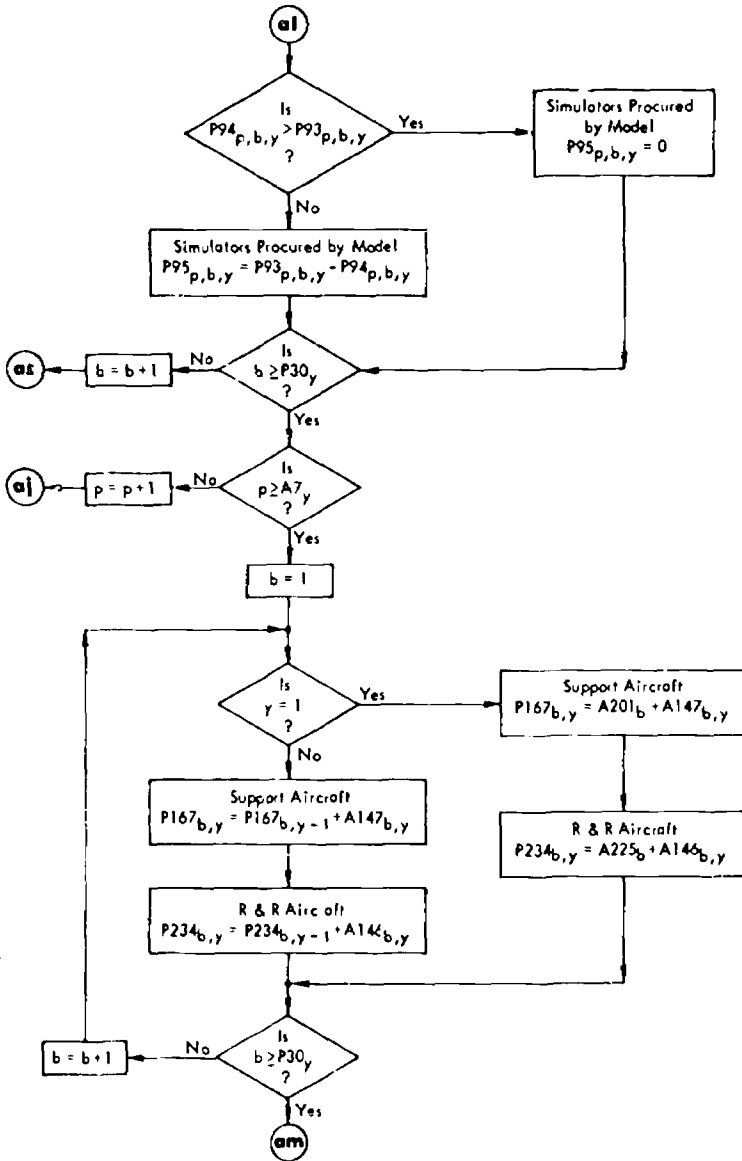


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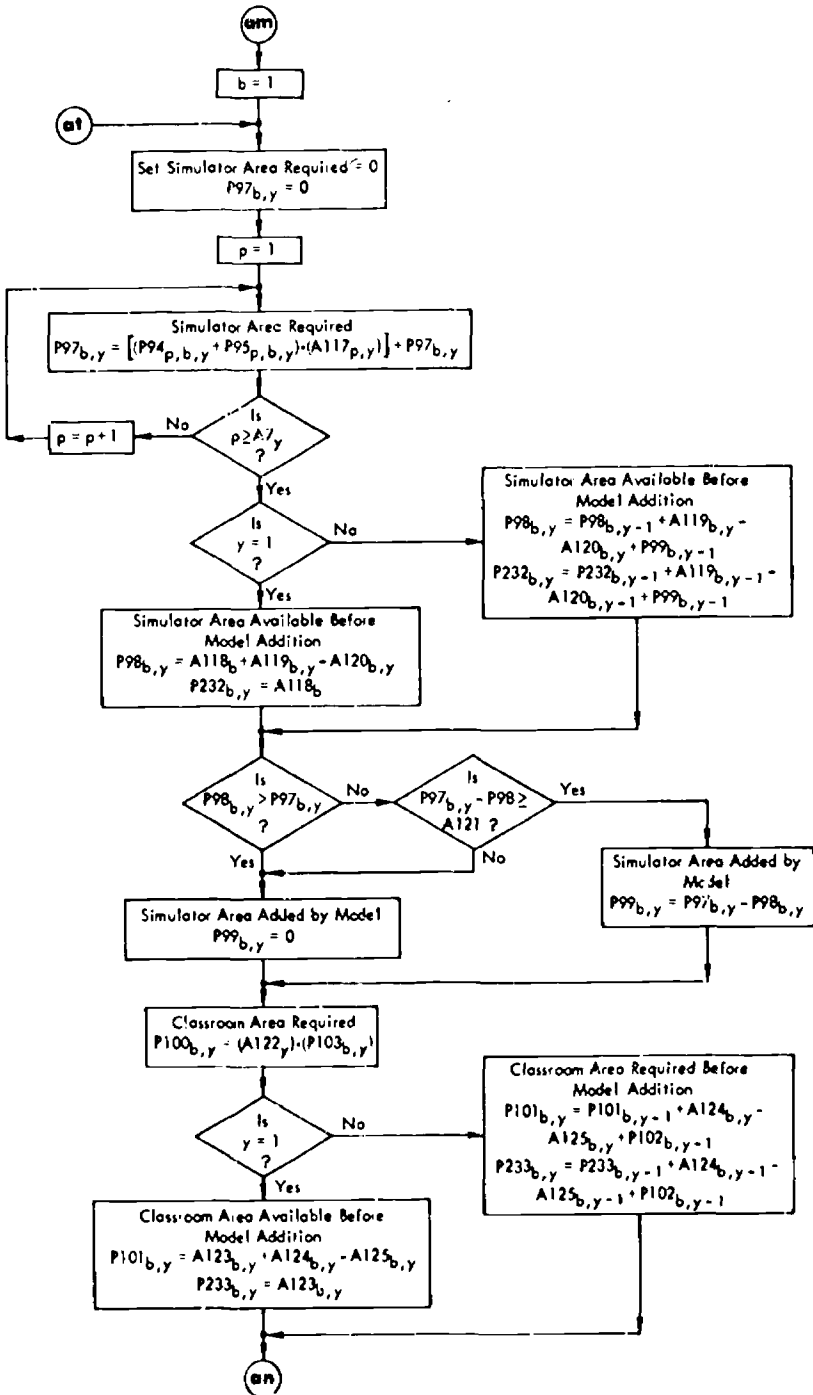




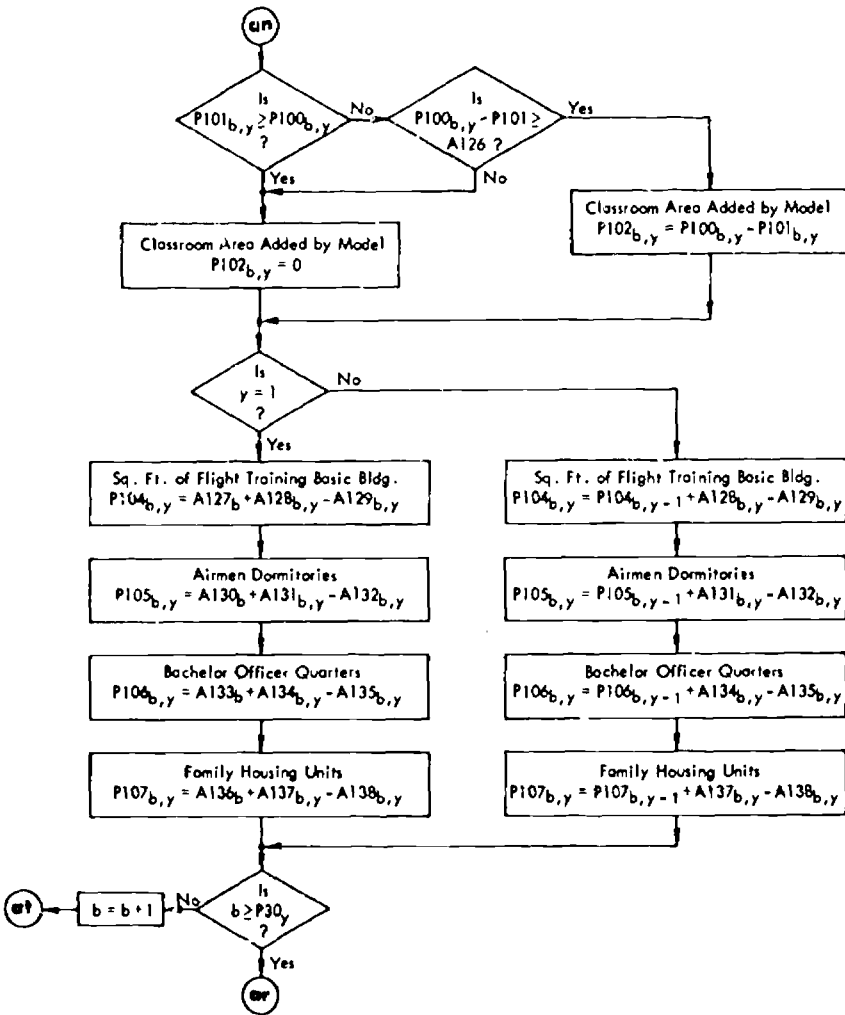
SEGMENT FIVE: EQUIPMENT



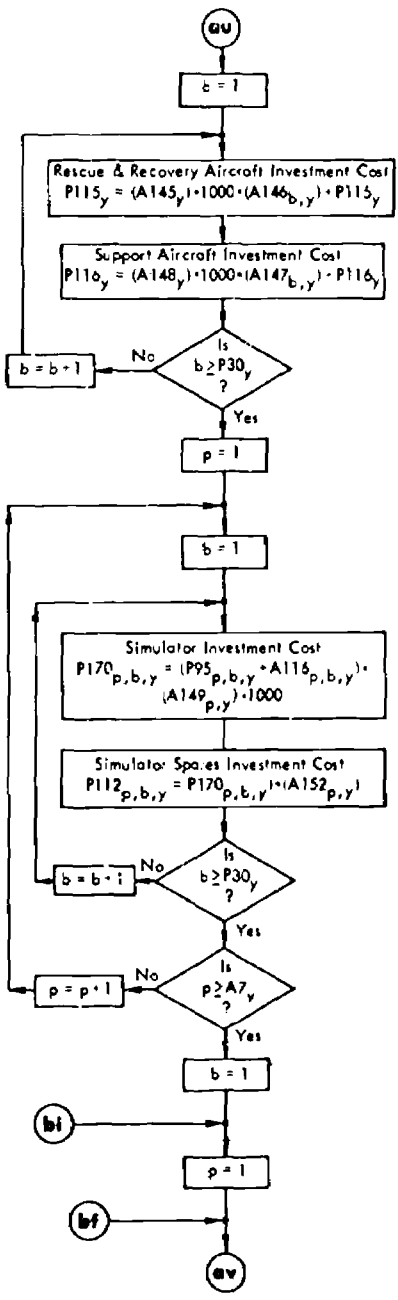
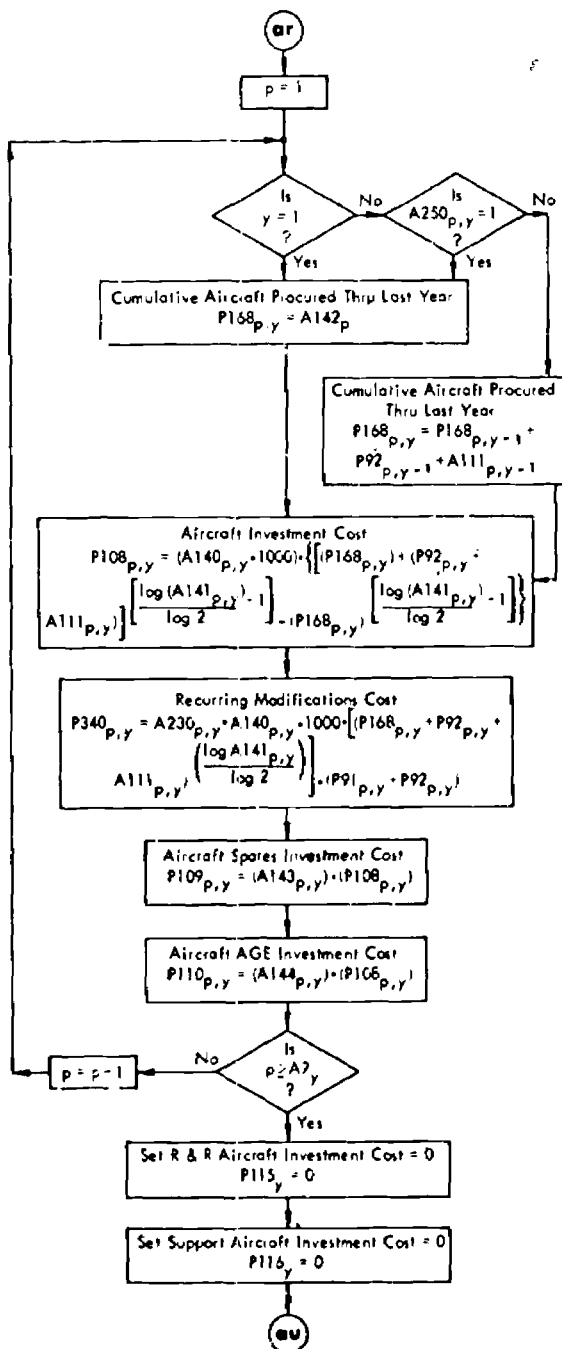
SEGMENT SIX: FACILITIES



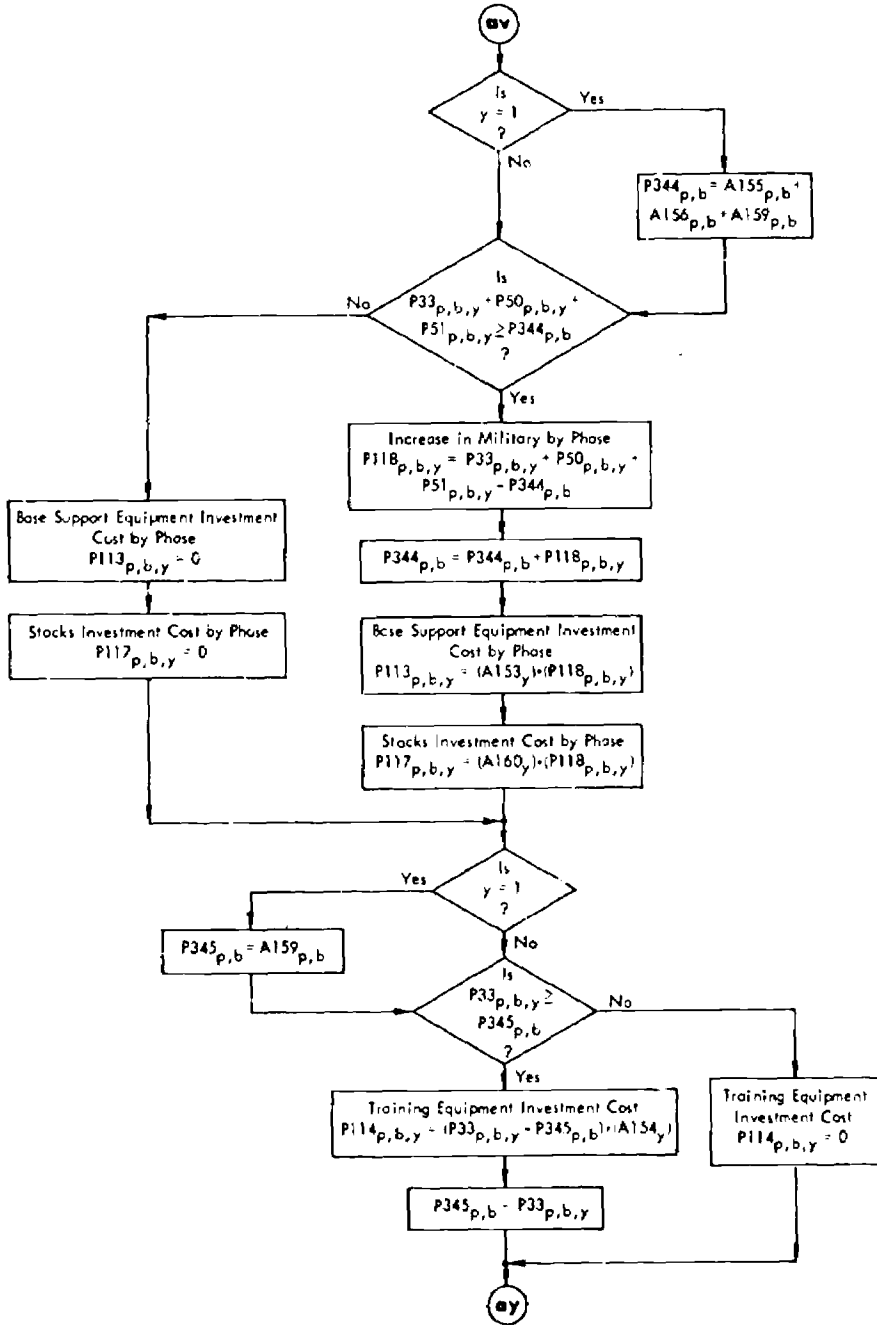
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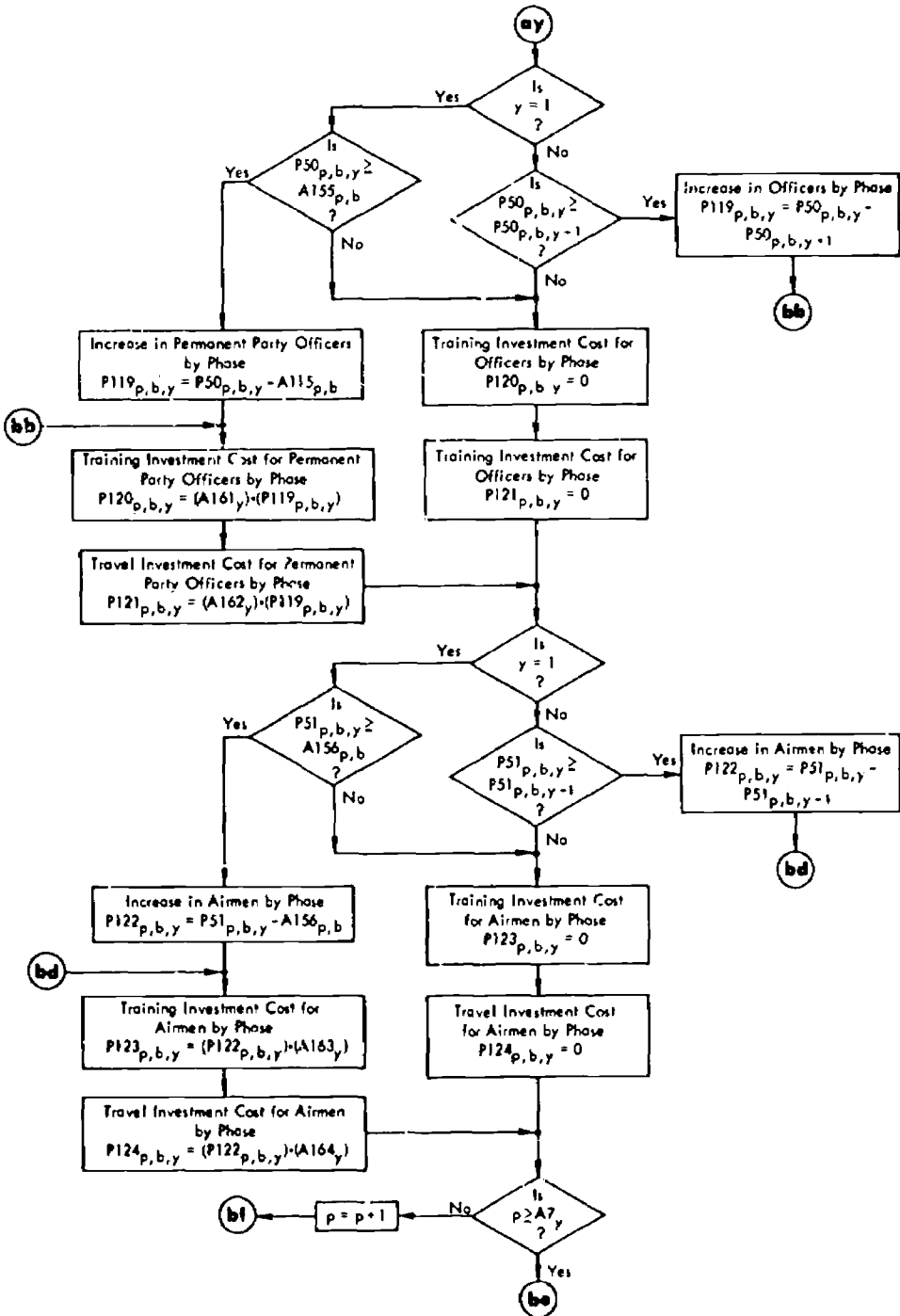
SEGMENT SEVEN: COST



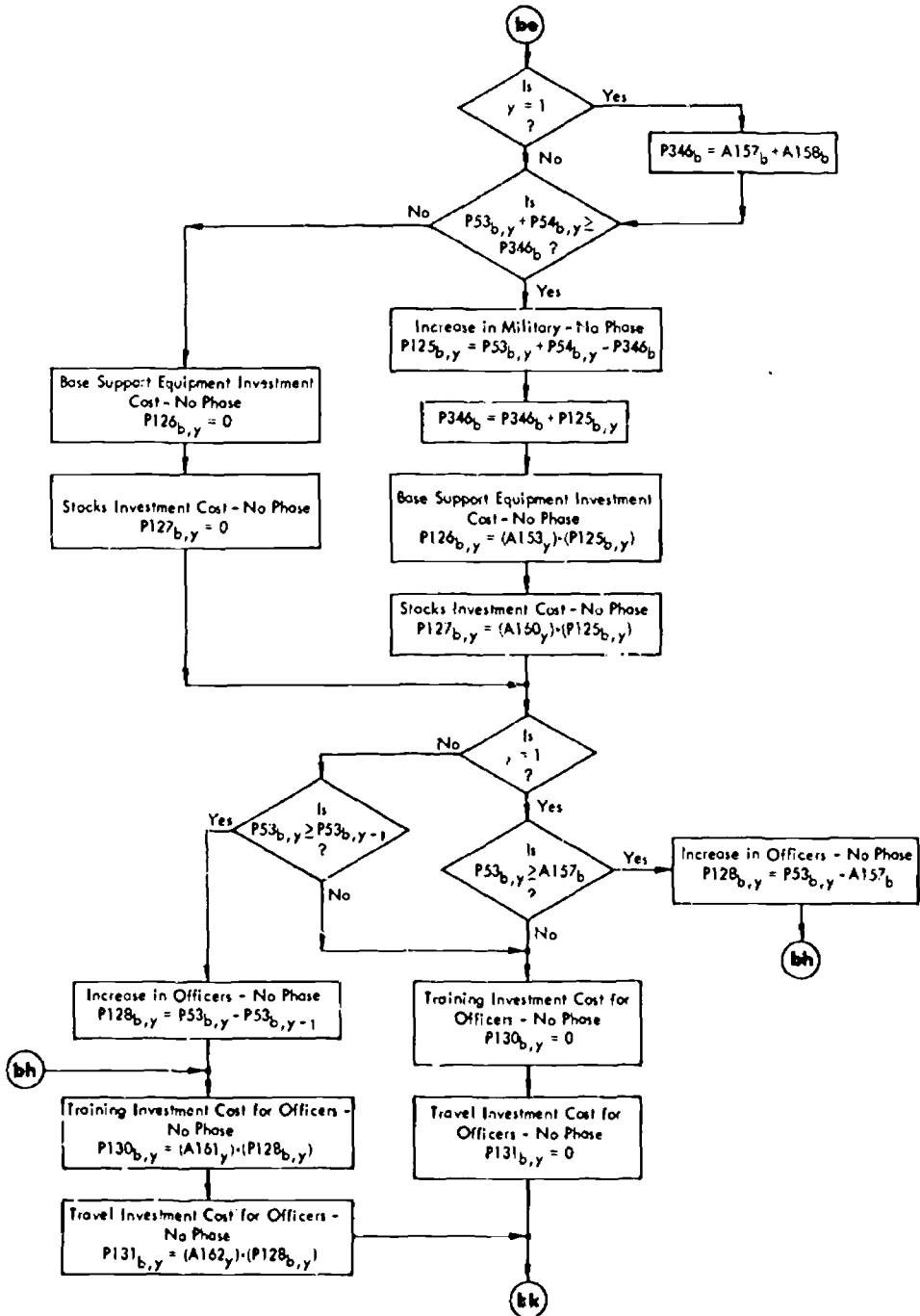
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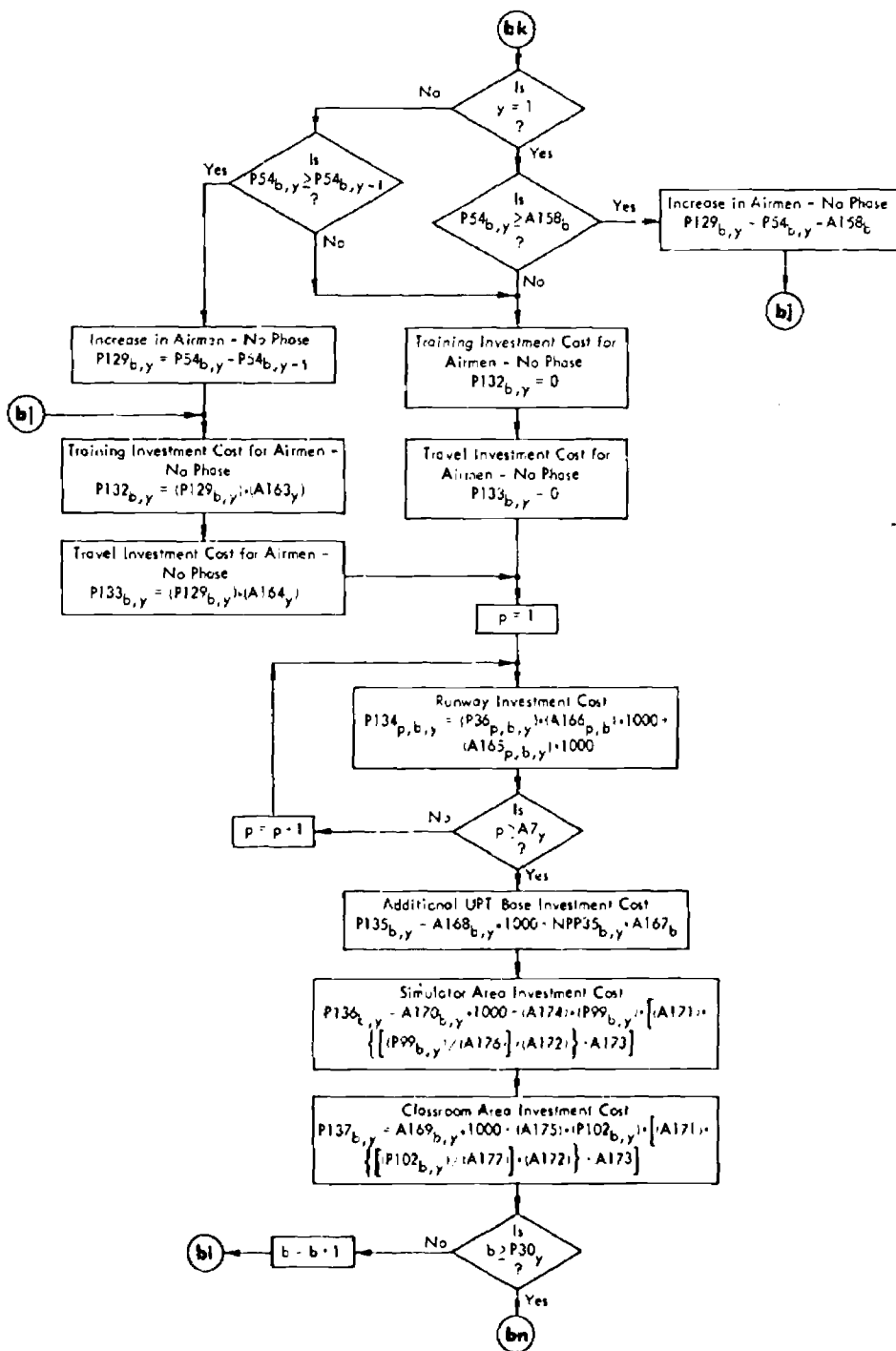
SEGMENT SEVEN: COST



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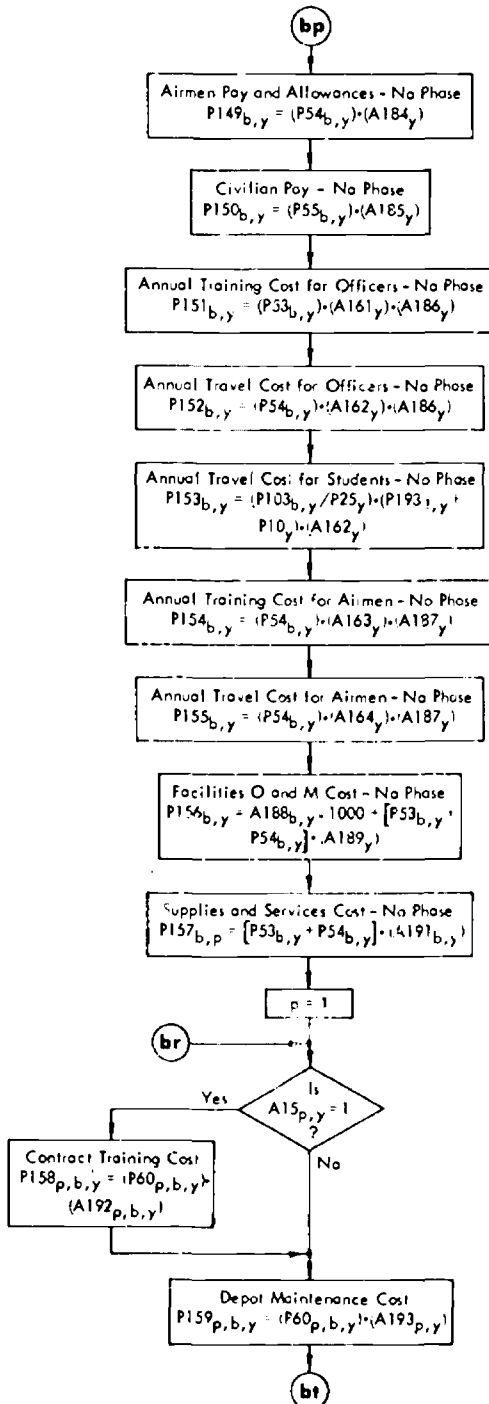
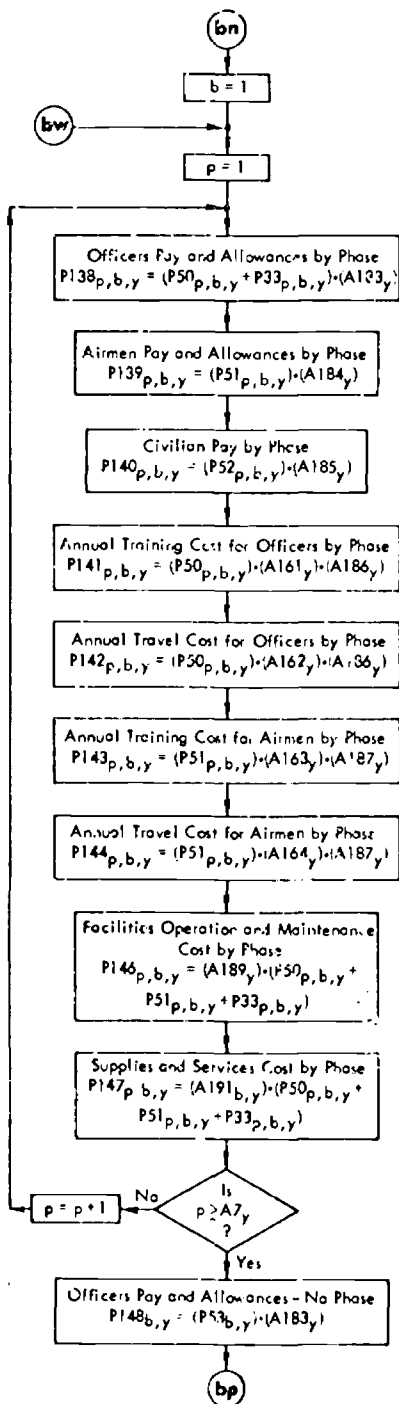


SEGMENT SEVEN: COST

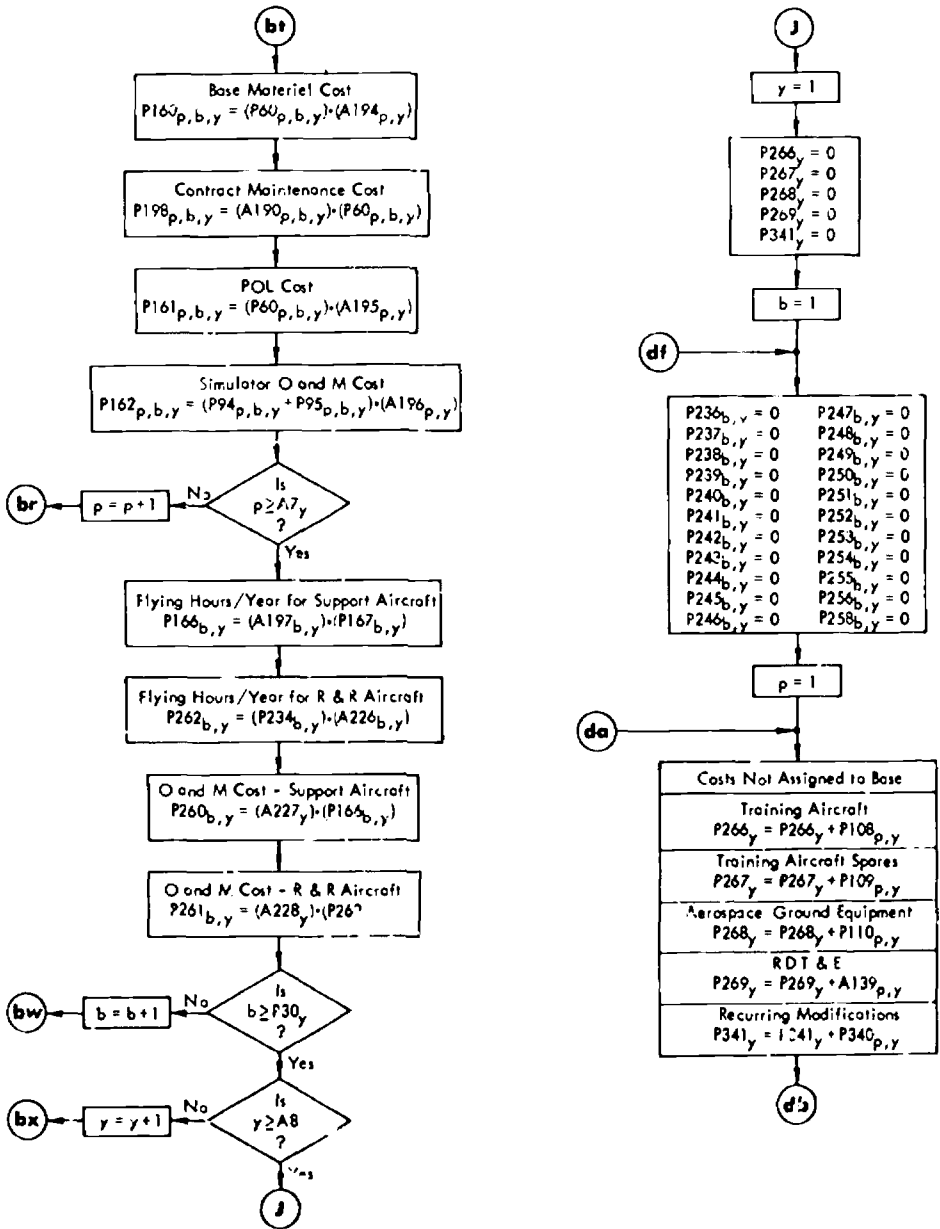




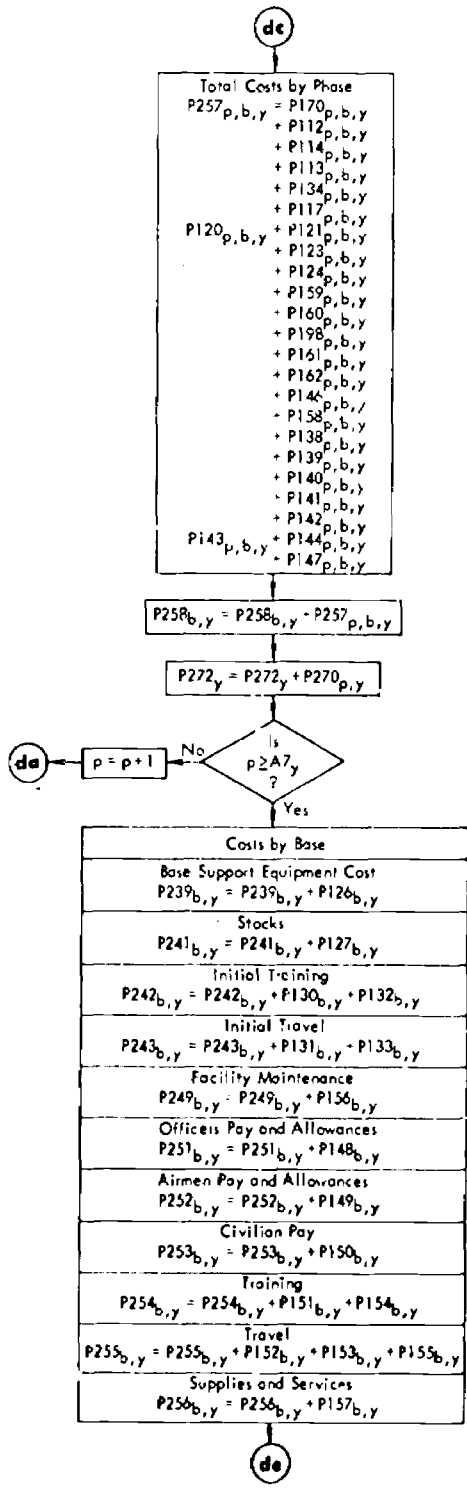
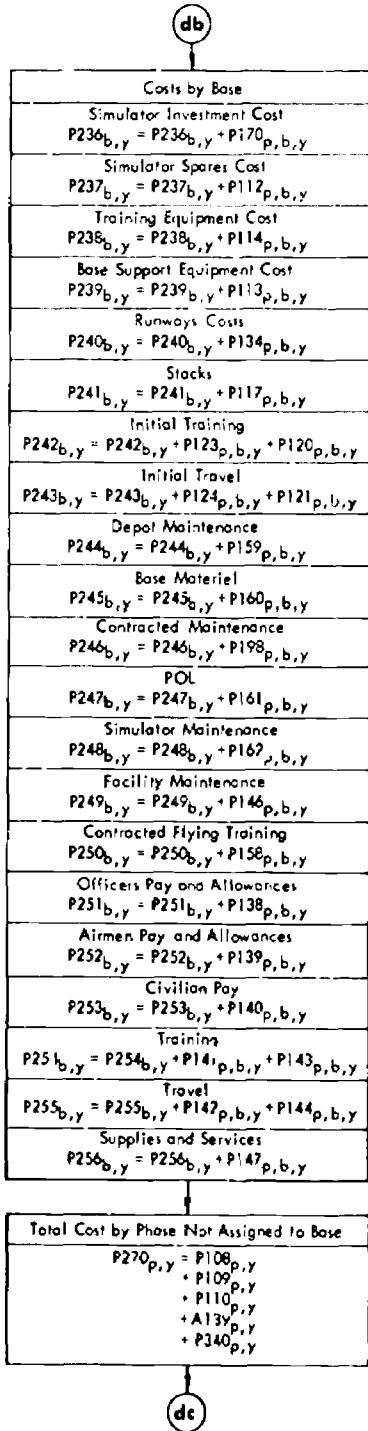
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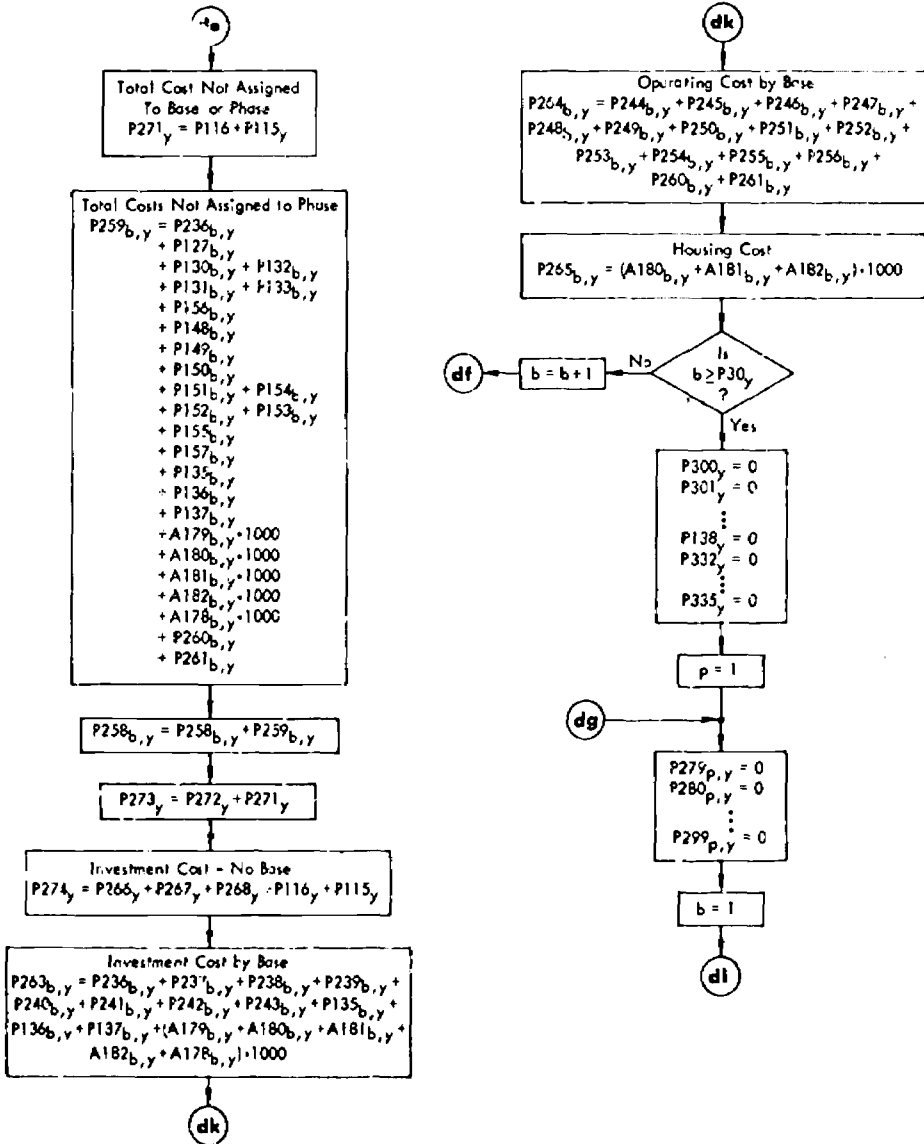
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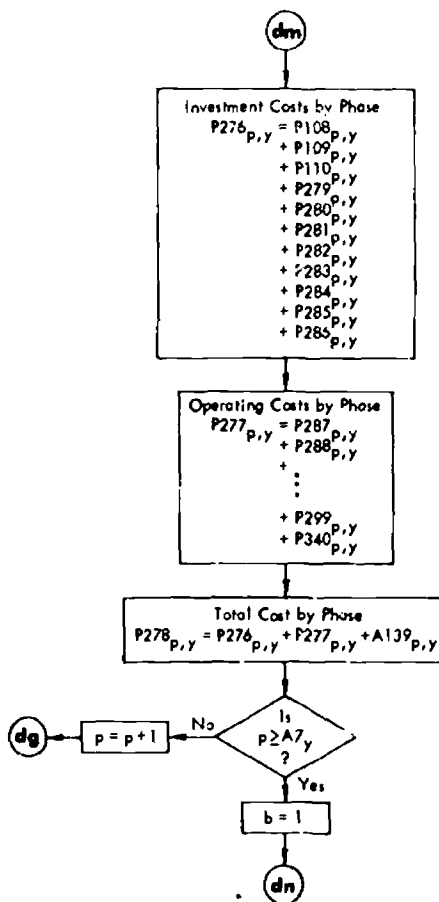
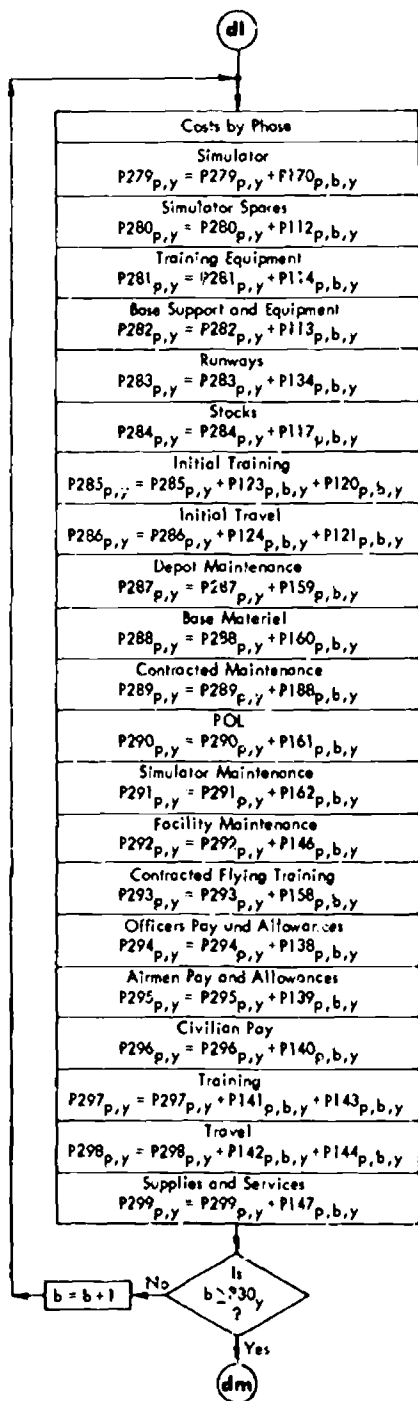
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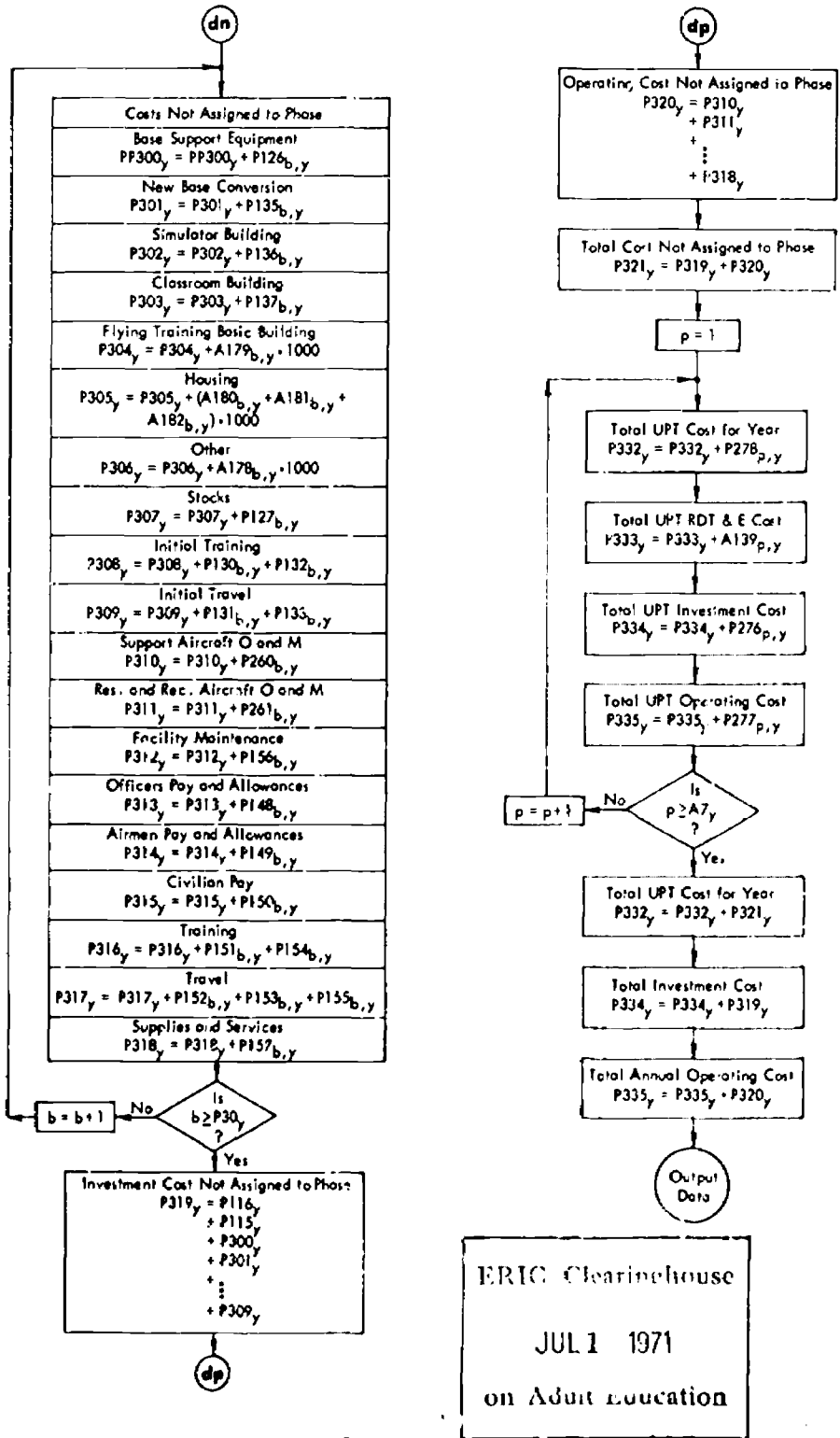
SEGMENT SEVEN : COST



SEGMENT SEVEN: COST



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