

## **HISTORICAL ANALYSIS OF C-130E RESOURCES**

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GORDON A. ECKSTRAND, Director Advanced Systems Division

DAN D. FULGHAM, Colonel, USAF Commander

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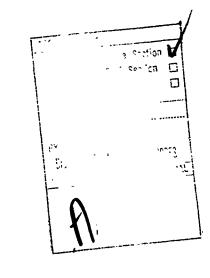
costly to obtain. The resulting data bank was developed from existing Air Force data samples. Where only partial data was located, statistical methods were developed and applied to generate the missing data.

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Analyses were accomplished against seven (7) basic data categories, namely: (a) operations, (b) maintenance, (c) reliability, (d) safety, (e) human resources, (f) material resources, and (g) cost data. All data categories addressed, whenever possible, the 15 year period or life cycle of the C-130E weapon system (1962 through 1976).

This document is the second of a series of five Boeing Technical Reports emanating from this study, namely:

AFHRL-TR-77-40	C-130E Hercules Aircraft: Review of Published Literature and Structured Interviews (Available to U.S. Government Agencies only.)
AFHRL-TR-77-48	Historical Analysis of C-130E Resources
AFHRL-TR-77-46	Life Cycle Cost of C-130E Weapon System
AFHRL-TR-77-64(I)	Historical Analysis Methodology Resource Utilization
AFHRL-TR-77-64(II)	Historical Task Analysis of C-130E Personnel



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# SUMMARY

Resources are expended to operate and support a weapon system. To be able to analyze the resources used, data must be gathered from diverse sources. Once the resource utilization is known, actions can be taken to reduce the resource requirements through modification of the system, the mission or the operating policy.

This report describes an analysis of available Air Force data on the utilization of resources for the C-130E Hercules aircraft. This report is the second of a series of four which will document this research study. This study is Phase I of a four-phase project. The project, "Advanced System for Human Resources Support of Weapon System Development," is designed to demonstrate the technical feasibility of a method of reducing the cost of ownership of a new weapon system to the Air Force.

#### PROBLEM

To analyze the resource utilization of a weapon system requires the establishment of a massive data base. The information necessary to complete the data base must be acquired from many different sources. The problem addressed was to establish a methodology for collecting resource utilization data for an operational weapon system.

#### APPROACH

The approach involved two tasks. The first was to search, locate, acquire, screen, and evaluate all Air Force data concerning the utilization of resources by the C-130E Hercules aircraft during the past fifteen years (1962 through 1976). The second task was to collate and analyze the data.

Both human and material resources were considered. Human resources include the people required to perform support functions. The people are described according to Air Force specialty code (AFSC), experience level, and rank. Material resources include, for example, spares, ground support equipment and fuel.

Every known Air Force agency (including operational units) that might have C-130E historical data was identified and contacted. Special data source summary forms were developed and completed for each organization. The data were computerized along with the documentation (published literature) that was collected during an earlier task (reference AFHRL-TR-77-40).

All data acquired for the study were indexed and analyzed into seven major categories; i.e.: a) operations, b) maintenance, c) reliability, d) safety, e) human resources, f) material resources, and g) cost. Where total data were not available, statistical normalizing techniques were applied to the available data slices as the means of filling in missing years. This method was especially needed in estimating human resources, material resources and costs.

#### **DIFFICULTIES ENCOUNTERED**

Special difficulties encountered in conducting this study will be stated because they impact on future efforts. Such difficulties were:

- 1. Some input data were fragmented and/or discountinuous. This forced the formulation of scattered, discountinuous analytical results.
- In some cases, data requested early in the program either were not made available or arrived late. This precluded quantitative compilation of meaningful, accurate historical profiles in some areas.
- 3. Conflicting data (e.g., number of possessed C-130E aircraft per year from 1962 through 1976), obviated or attenuated analytical progress. In some cases these conflicts could not be satisfactorily resolved.
- 4. The general policy of USAF agencies to retain historical data files, for short time periods, as well as not having a single weapon system data repository had a profound effect on analytical results. Extrapolative and interpolative analytical results are always "second best" when attempting to evolve quantitative weapon system histories.

Most of the difficulties encountered were resolved through extensive conference telephone conversations with key personnel or by engineering judgment. Data not available through a principal data agency(ies) were acquired through other sources. This did not always represent a fully satisfactory solution, but did significantly aid in filling large data voids. No solution was provided concerning the USAF need to maintain at least one centralized data repository.

# RESULTS

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The magnitude of findings emanating from this study precludes issuance of a complete summary of key findings. Some of the more salient outcomes include:

- Fifteen year profiles of C-130E organizational and intermediate troubleshooting maintenance manhours per 1,000 flight hours encompassing 29 flight subsystems were quantified.
- Corrective maintenance task numbers and proportional task distributions encompassing the 29 C-130E flight subsystems were plotted for each year of the 1962 through 1976 reporting period.
- 3. Organizational and intermediate tasks per sortie encompassing the periods of 1965 through 1976 (12 years) were derived.
- Corrective organizational and intermediate maintenance hours and proportional distribution patterns per 1,000 flight hours (1962 through 1976) were analyzed and derived.
- 5. Proportional distributions were developed of organizational and intermediate maintenance troubleshooting manhours (1962 through 1976).

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- 6. A determination was made of the numbers of organizational and intermediate "repair only" tasks per 1,000 flight hours and the associated proportional distributions within the 29 subsystems (1962 through 1976).
- 7. Organizational maintenance remove and install tasks per 1,000 flight hours profiles were specified.
- 8. C-130E flight and maintenance personnel manpower estimates encompassing 15 years were prepared. This includes profiles of maintenance personnel assigned to 64 work centers contained within the Deputy Commander for maintenance organizations, Organizational Maintenance Squadrons, Field Maintenance Squadrons and Avionics Maintenance Squadrons.
- 9. Near term Field Training Detachment (FTD) histories (27 months) of numbers of graduates per month as well as training hours per month per TD were defined. This enabled development of estimated FTD training histories for the period of 1962 through 1976.

10. Complete 15 year historical profiles were developed of Time Compliance Technical Order (TCTO) kits installed into 308 C-130E aircraft. This included total number of kits per aircraft at the intermediate and depot maintenance echelons as well as total hour expended per year when installing kits at the two maintenance echelons. Composite frequency polygon distributions encompassing intermediate and depot TCTO kits and expended hours depict retrofit patterns.

Other results include the development of discrete (quantitative) 15 year profiles of educational levels achieved by three officer AFS's and 30 enlisted AFS's. Achieved educational trends observed during data analyses enabled formulation of the following conclusions:

- Achieved educational levels of officer and enlisted personnel climbed dramatically between the years of 1962 through 1976.
- 2. No non-high school graduate Air Force personnel are shown as officer rated (AFS 4016,4024, and 4096) as of June 1976.
- 3. More officers and enlisted personnel entered college during each ensuing year between 1962 through 1976.
- Achieved educational levels of officers are significantly greater than for enlisted personnel.
- Selective criteria implemented by USAF recruiting centers appear to be responsible for marked reductions in enlisted personnel not having high school diplomas or equivalent.

#### CONCLUSION

In spite of the obstacles, a comprehensive 15 year data base for the C-130E has been obtained, organized, and analyzed. Of future use are both the date base and the methodology used for its development. The data base establishes a reasonable baseline of information that could be used in the initial planning of a new weapon system of this type. The information indicates the high resource requirements and possible design changes that could reduce these requirements.

The basic methodology can be used to provide such a historical baseline for any weapon system. It indicates the type and sources of available information, the type of analyses that can be made, and the type of useful information that can be formulated. PREFACE

This report was prepared by the Boeing Aerospace Company Logistics Support and Services (ILS), Seattle, Washington, under USAF Contract F33615-76-C-0062. This contract was initiated under work unit 19590001. Work was accomplished under the direction of the Advanced Systems Division of the Air Force Human Resources Laboratory, Air Force Systems Command with Major Duncan L. Dieterly as the project engineer.

Data emanating from this contract, "Historical Analysis of C-130E Life Cycle Costs", will be reported in a series of four AFHRL technical reports. The total study provides a unique body of data, which for the first time, attempts to document the actual life cycle cost of a weapon system.

Boeing Aerospace program technical leader was George R. Herrold. Principal program analysts were Frank D. Brown, Donald E. Griswold, Donald K. Hindes, Gary A. Walker and David H. Wilson. Boeing's contract report number is D180-19797-4. This approved technical report (TR) includes work performed from 29 June 1976 through 20 May 1977.

The Boeing Aerospace Company wishes to express their appreciation for the technical assistance and data provided by: a) USAF Headquarters, Washington, D.C., b) Air Force Systems Command (AFSC), Andrews AFB, Maryland, c) AFLC Headquarters, and Aeronautical Systems Division, Wright-Patterson AFB, Ohio, d) Military Airlift Command, Scott AFB, Illinois, e) all CONUS Aircraft Air Logistics Centers (e.g., San Antonio ALC, Warner-Robins ALC, et al.), f) Air Training Command Headquarters, Randolph AFB, Texas, g) Air Training Command, Sheppard AFB, Texas, h) USAF Occupational Measurement Center, Lackland AFB, Texas, i) Air Force Inspection and Safety Center, Norton AFB, California, j) 62nd MAW Wing, McChord AFB, Washington, k) 314th TAW, Little Rock AFB, Arkansas, and 1) 317th TAW, Pope AFB, North Carolina.

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# I - INTRODUCTION

## **PURPOSE:**

The Air Force must be able to meet its specified mission requirements. To meet these requirements a spectrum of weapon systems must be designed, produced, and maintained. As the cost of sophisticated technology spirals upward, the Air Force planner must be able to maximize performance while minimizing cost. The crucial limiting parameter placed upon the weapon system spectrum is cost. Currently, it is popular to advocate different methods for controlling cost; such as cost of ownership and life cycle cost. (LCC). All costing technologies have three aspects in common: The value of a weapon system is measured in dollars; the computation of the value is at a fixed point in time; and the function of costing the system is dependent upon the definition of variables to be included in the cost.

All too frequently, after a discrete set of variables has been agreed upon, as those that will generate the desired cost, it is determined that no information is available upon which to establish the dollar value of a variable; therefore, the variable is excluded or treated as a constant. This is especially evident in those areas not directly associated with weapon system acquisition. This dilemma severely hampers the computation of the desired cost and reduces the probability of making the optimum decision. In order to redress the deficiency, the Advanced Systems Division of AFHRL has attempted to identify, develop and demonstrate a series of methods to allow for the inclusion of these variables in cost computations.

Through initial research efforts it had been established that these variables could be quantified and included in cost analysis. During the same time frame it was realized that the final cost of a weapon system was dependent upon five major interacting factors: (See Figure 1) a) system design, b) human resources, c) material resources, d) performance required and e) operation of the system. In order to impact the cost of a system, a change would be necessary in one of the factors. However, a change in any factor will have some impact on the others. To adequately analyze the cost of a weapon system, a capability to model or simulate all five factors is necessary. As can be seen in the diagram, the life cycle cost of any weapon system is dependent upon the state of not only the design but the other factors. Any change in a factor will result in a new state and resultant LCC estimate. State "A" will result in a different LCC than state "B". Project 1959 "Advanced System for Human Resources Support of Weapon System Development," is the first effort to integrate these factors in a single analysis technique that could be used to evaluate the full ramifications of weapon system design, human resources, material resources, performance, and operations.

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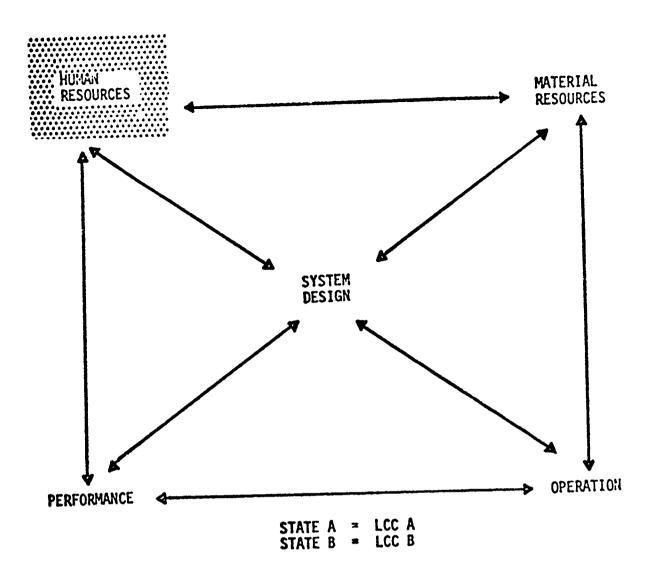


Figure 1 MAJOR INTERACTING FACTORS

# PROJECT 1959 - PURPOSE AND GOALS:

The purpose of Project 1959 is to demonstrate the technical feasibility of a method for reducing the cost of ownership to the Air Force of new weapon systems. The cost expended to maintain certain human resource configurations is a major contributor to operations and Support costs. Consequently, programs aimed at the reduction of human resource parameter costs can have a significant impact on the Air Force budget.

In Project 1959 the advanced medium STOL transport (AMST) being developed by the Air Force will be the test case. Existing state-of-the-art technology in training, technical data, and manpower simulation

techniques to reduce the human resource support cost of the system will be applied. This project will provide for the inclusion of human resources parameter costs in engineering design studies, forecasting and controlling manpower requirements through the application of systems analysis and computer modeling techniques, improved technical data for maintenance personnel and early identification of training requirements and advanced training techniques appropriate for the new system. These techniques will be modified as required and integrated to provide a comprehensive approach to the development of a cost effective personnel support system for a new weapon system. The project will be completed in four phases.

This project is directed at reducing the personnel support cost of new systems. Research efforts under the project will demonstrate a technology for controlling the personnel, training, and manpower requirements of new systems without adversely affecting either operational readiness or system effectiveness. Application of this technology will lead to significant reductions in life cycle costs of new systems.

Although this effort will utilize a particular weapon system to demonstrate the technology for controlling personnel costs, this technology could be generalized to a wide spectrum of new systems being developed in the Air Force and other military services. In general, the technology may be used for any type of new equipment being designed and developed for whatever purpose: military, government, or industrial.

#### PHASE I, PROJECT 1959 - HISTORICAL ANALYSIS OF C-130E LIFE CYCLE COSTS:

The purpose of this effort is to establish a historical analysis of resource utilization of the C-130E Hercules. The analysis will include both human and material resource utilization as indicated from available records. In accomplishing this analysis a methodology will be established to allow for analysis of other weapon systems. This methodology will include type of information, possible sources, credibility of data, difficulty in reducing data and cost of obtaining the data. It is anticipated that most historical data is lost through the demand for current data to solve operational problems. In addition, large amounts of data may be available in such a form as to be prohibitive to collect and process for a computerized system.

Traditionally, when a weapon system is developing through the acquisition process, estimates are made as to the resources necessary to support that weapon system. After the system enters the Air Force inventory, the concrol of the human and material resources crosses several functions and commands. Seldom are the initial estimates verified for all resources controlled by one level of management. For example, the provisioning of spares becomes a prime concern of Air Force Logistics Command. Therefore, once a weapon system is operational, no single point manager is responsible for the human and material support of that system. Multiple management generates a

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considerable amount of information and information systems to track and manage aspects of the weapon system. These sources of information are dispersed and in various configurations. To attempt to evaluate a system in terms of life cycle utilization or reduce that to a life cycle cost is a complex task. This phase of Project 1959 is designed to address this problem. This phase has been planned to be accomplished in six tasks.

# DESCRIPTION OF TASKS

The sequence of the six major tasks are interrelated as shown by the arrows in Figure 2. Where appropriate, the tasks are performed in parallel.

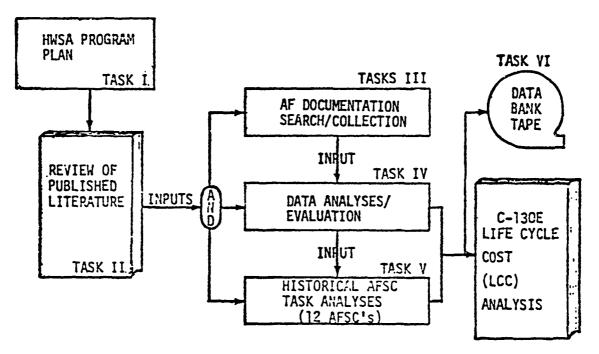


Figure 2 HISTORICAL WEAPON SYSTEMS ANALYSIS (HWSA) TASK FLOW DIAGRAM

Following is a brief overview of the actual work required by each of the six major tasks:

Task I Develop Contract Performance Plan

Identify Data Sources and Agencies to be Contacted. Prepare Study Schedule and Milestones. Complete Contract Performance Plan. Kickoff Meeting.

Task II Historical Data Review Identify, Obtain, and Analyze C-130 (C-130E Subset where possible) Research and Descriptive Studies Documentation. Conduct Structured Interviews. Publish Formal Technical Report.

- Task III Air Force Documentation Search and Collection Identify and Screen Available C-130E Data Files. Obtain Applicable Experience Data. Catalogue Data Files.
- Task IV Data Analysis Evaluate Data. Develop Descriptive Statistical Summaries. Publish Formal Techrical Report.
- Task V Historical Task Analysis Select Skills Identify Tasks for Each Skill. Develop Task Parameters.
- Task VI Life-Cycle Cost Analysis Coordinate LCC Model Structure and Elements. Perform LCC Analysis. Generalize LCC Approach. Publish Formal Technical Report (Final). Develop General Data Bank Computer Tape.

Tasks III and IV were completed in April 1977 and are reported in this document. The final technical report contains a complete review of the entire study.

# SCOPE

The scope of Tasks III and IV (as shown above) was focused on the C-130E Hercules aircraft. The study was further limited to Air Force data collection systems/documentation within the calendar years of 1962 through 1976 (15 years). Figure 2 provides an illustrative relationship of these two tasks to other tasks being accomplished under this contract. 

#### GENERALIZED DATA COLLECTION AND ANALYSES METHODOLOGY

#### Data Search and Collection Methodology

Data search and acquisition techniques, utilized by investigators of this study are summarized in Figure 3. Subsequent to definition of the seven data categories defined in Figure 3, a thorough review/assessment of C-130E data histories present within extant historical repositories was completed. Profiles of adequacy and completeness of historical data were developed. Concomitant data weaknesses

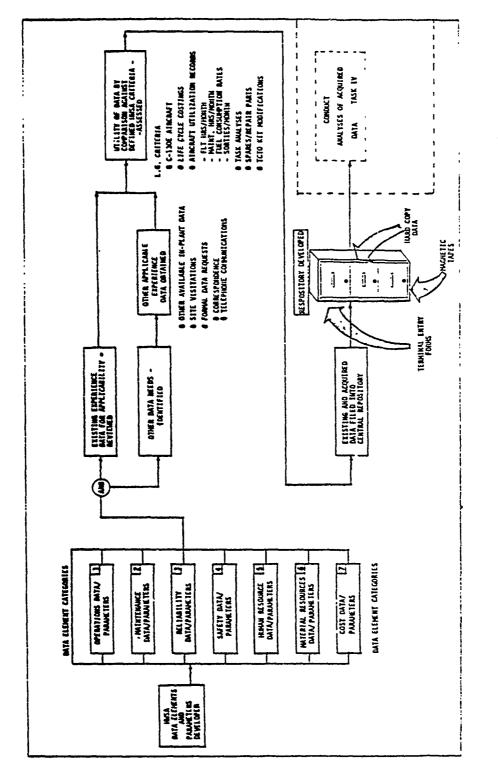


FIGURE 3 TASK III - AIR FORCE DOCUMENTATION SEARCH AND COLLECTION METHODOLOGY (LES)

and/or additional data needs were then tabulated. Then action was initiated whereby additional C-130E historical data were acquired. This was accomplished via: a) search for data within extant Boeing Libraries and other data centers, b) submittal of formal correspondence to appropriate USAF agencies, and C) site visitations to various Air Force Commands and bases. The relative merit or applicability of existing and newly acquired data was assessed by all investigators, against a set of predefined criteria. This included, but was not limited to, such selection questions as: a) Do the data apply to the C-130E weapon system?, b) Are the data derived from direct C-130 operations and maintenance reporting systems?, c) Are they continuous data?, d) Do they cover the seven data element categories delineated in Figure 3?, e) Are the data quantitative or qualitative in nature?, and f) Will the data enable costing for the "Life Cycle Cost Analyses," to be accomplished later? Data selected for application to this study were logged and filed into a central repository. This repository included the filing of all hard copy data as well as those data contained on microfiche, magnetic tape and slide film. The resulting data contained within the central repository served as the "data pool" for the conduct of the Data Analyses (Task IV).

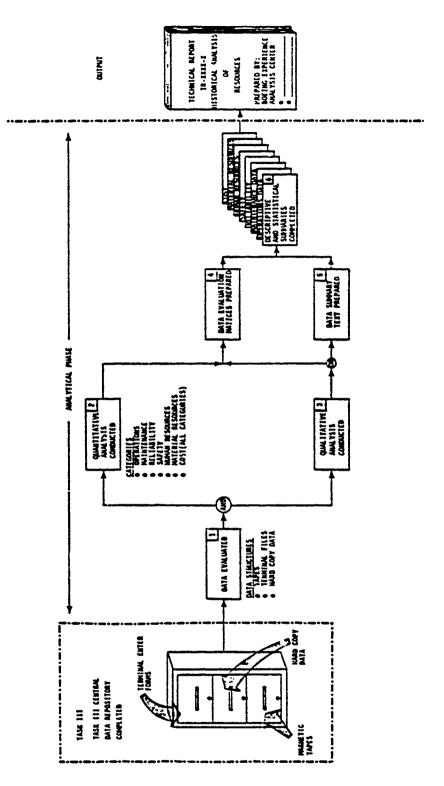
# Data Analyses Methodology(ies)

Figure 4 provides an illustrative compendium of the six basic analytical progressions followed, when analyzing the C-130E historical data contained within the central data repository. Initial analysis required the separation and collation of data into qualitative (subjective) and quantitative categories. This was accomplished for each of the seven data categories (e.g., operations data, human resource data, maintenance, etc.) itemized under blocks 2 and 3 of Figure 4. Subsequent to this mechanical sorting procedure, data matrices were prepared against each data element. Data summary texts were prepared in series with ten discrete evaluative steps taken during the block 4 analytical phase. Descriptive and statistical summaries of each of the seven data compilations, matrices, tables, and figures for each data element (step 6), served as the basis upon which-this report was written.

#### SUMMARY

This report is the second of a series of four reports to be completed under this study. It describes the work accomplished during Tasks III and IV of a six task study to historically analyze the resource utilization of the C-130E Hercules aircraft. ልታለተከል የስት የተለከተል የሳሳሌ የአህ የወይ ያለበት በማሪያ የትዕራት የሰላት የአህ የትዕራት የሰላት የሰላት የስት የትዕራት የትዕራት የትዕራት የትዕራት የትዕራት በትዕራት

The approach to Task III was to identify, contact, and where possible, collect applicable data from every Air Force agency that conceivably might have current and/or historical data files/data repositories, that could contribute to determining the human and material resources utilized in direct support of the Air Force C-130E Hercules aircraft during the aircraft's operational years (1962 through 1976).



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FIGURE 4 TASK IV - HISTORICAL MEAPON SYSTEMS DATA ANALYSES METHODOLOGY(IES)

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The approach in Task IV was to collate, analyze and prepare historical data (when data histories permitted) into chronological queues. Development of quantitatively derived results, when placed in queues, enabled investigators to formulate conclusions, trends and problem statements about the C-130E weapon system. Historical data voids were made apparent via this analytical technique.

Results acquired during this task serve as the quantitative foundation upon which discrete life cycle costing (Task VI - of this study) of C-130E weapon system operations will be accomplished. Quantitative data baselines were formulated in the following data categories: a) operations, b) maintenance, c) reliability, d; safety, e) human resources, f) material resources, and g) cost.

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## II - AIR FORCE DOCUMENTATION SEARCH AND COLLECTION

A thorough search and screening for usable data within existing Air Force data files was conducted. The identification of existing Air Force C-130E data files was accomplished basically following the steps as shown in Figure 5.

An initial list of data elements and parameters were developed along with the potential data source and location. The initial list of data elements and parameters contained the baseline information required to backfill 15 years of Air Force C-130E historical resources utilization data. This initial set of data elements/parameters was then screened and their locations were established. Detail descriptions of the data sources and interfaces can be found in references [D] and [D] This list was expanded as other data sources were identified that could contribute to the overall study objectives as discussed below.

#### OBTAIN APPLICABLE EXPERIENCE DATA

The data collection process for this study required screening and processing of products from many sources. Three basic approaches were used to gather the data.

<u>First</u>, available in-house, previously obtained C-130E data from applicable Air Force data files was screened;

<u>Second</u>, a formal request letter was forwarded to organizations that were known to be data repositories of applicable data files/ information; and,

<u>Third</u>, during scheduled site visits, specific offices were visited and knowledgeable individuals were interviewed to identify. additional data files/information.

Table A-1, Appendix A, contains a list of the actual sources and agencies that were contacted and the type of applicable information that was obtained and screened. Reflected in the table are agency, location, office symbol(s) function, type, and quantity of data obtained. The type of data column identifies: a) published literature that was used on a prior task which is discussed in detail in AFHRL-TR-77-40, and b) Air Force data systems and files which feed later efforts.

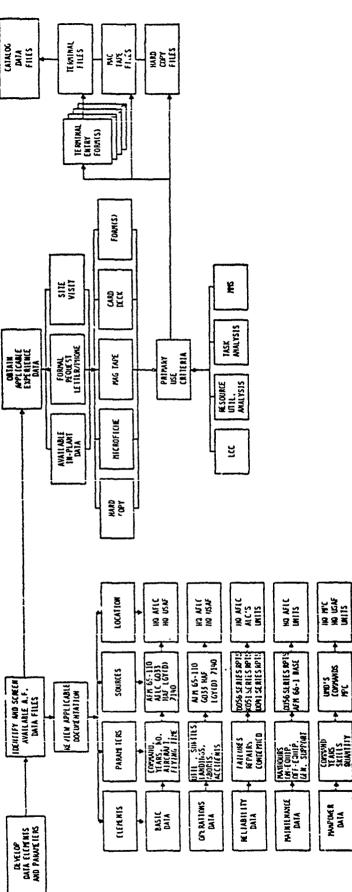
AFLC/AFSC Pamphlet 400-11, "Reliability and Maintainability Data Sources."

AFLC Pamphlet 171-79, "Data Systems Assignments, Status, and Interface."

AIR FORCE DOCUMENTATION SEARCH AND COLLECTION FLOW DIAGRAM FIGURE 5

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The "quantity obtained" columns in Table A-1, Appendix A, show the number of reports or records, if the data is computer oriented, and the years covered by the data obtained.

The actual analysis of the information obtained is described later in detail. However, in attempting to accumulate the C-130E historical data, the following problems were significant enough to warrant being highlighted here to assist in the planning of future efforts. They are similar to many of the problems encountered in acquiring the published literature for the earlier tasks.

(1) There is no one data repository/system that provides visibility into weapon system historical documentation.

(2) It becomes necessary to first identify all of the various repositories and then to select, collect, and piece together the information from each for the specific weapon system and/or data element.

(3) Information that must be ordered from some data repositories requires extremely long lead time prior to actual information delivery. In some cases, even after repeated requests for the data, the data were not furnished thereby leaving gaps and inconsistencies which required normalization to obtain acceptable study results.

(4) Some data repositories do not have large mechanized systems and have only one document on file (usually hard copy). This results in a time-consuming effort for review and reproduction or frequently reduces or eliminates the possibility of acquiring needed information.

(5) Data repositories may have copious documents, listings, or reports that can be borrowed. They require either laborious data extraction, or disassembly - reproduction - assembly and return to the home office which requires significant manhours for accomplishment.

(6) Obtaining need-to-know and/or proper management level attention can be very time-consuming, particularly in-situations where organizations or individuals, with needed information, will not release the information without "proper" management approval although "need-to-know" has been established.

(7) The predominate USAF policy of retaining historical data for only short durations (6 to 24 months) or as in most cases (6 to 12 months) prior to purge, has had a profound effect on the ability to get continuous historical information beyond near term periods.

(8) Changes in reporting systems as to format, deletion of key data elements, or in some cases the total elimination of the reporting system causes inconsistencies and data gaps for this type of study. This problem has added emphasis if the data were computer generated or are to be processed by a computer. To compensate, programs must he written to accommodate various input/output record styles, which is time-consuming and difficult, but necessary to maintain consistency. the second s

(9) Computerized data on magnetic tape, the most desirable form for large quantities or years of data, can cause long delays and excessive computer time when intended data elements that are agreed to are not on the tape when received. Also, allowance must be made for computerized data sets which do not track the documented technical order format or which are not compatible with the processing equipment of the organization doing the analysis. This requires recoordination and reprocessing of the information.

(10) The variance in data systems and repositories queried, to obtain the many types of data required for the study, presented a unique situation. Depending on the data system or repository, each has its own "in-house peculiar language" that must be used when discussing and/or retrieving the information in that system. This peculiar language barrier varied from systems that could be queried by weapon system, to systems that could only be queried by specific national stock number (NSN) for a given type of equipment or location. Subsequently, it becomes extremely time-consuming to track status and consumption of specific items.

#### DATA CATALOGING:

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The data was obtained from many different sources as described above and was received in five different forms:

For	m of Data Received	Percent		
1.	<pre>liard copy (listings/documents)</pre>	20%		
2.	Microfiche	20%		
3.	Magnetic tape	50%		
4.	Card deck	5%		
5.	Air Force report forms	5%		

The historical data acquired were screened for cataloging, utilizing the "yes-no" decision gates (criteria) as depicted in Figure B-1, Appendix B. The Historical Weapon System Analysis (HWSA) Terminal Entry Form as shown in Figure B-2, Appendix B, was completed on all data. The data were then cataloged into a HWSA master file via a computer terminal system. These entries were used as input to existing Boeing-developed computer programs that were modified to meet the criteria for this study. These modified programs, in turn, provided various outputs or sorts of the information that allowed the investigators to screen the data by particular area of interest during the data analysis task.

#### SUMMARY

This section describes the process utilized to search and collect Air Force documentation pertaining to the C-130E Hercules aircraft resources utilization (human and material) historically over the past 15 years (1962-1976). It describes: a) Available data files/ information identification and screening process, b) applicable data sources and agencies, c) data collection and review methodology, d) data cataloging for analysis, and e) results of the overall Air Force documentation search and collection effort, including problems encountered during performance of the task.

Most of the difficulties encountered during this study were resolved through extensive planning of trip schedules, developing pre-trip focal points at intended target agencies, and the submittal of pre-trip letters of introduction and justification prior to initiating field trips.

Problems encountered because of fragmented or non-existent historical data beyond 6 or 24 months could not be resolved. The general USAF policy concerning retention of historical data should be re-examined in the light of today's technology with microfilm and microfiche. The current practice of purging entire histories of data, without maintaining some centralized data area/locus precludes total acquisition of actual life cycle profile data (i.e., cost, engineering, supply support, etc.). As a result, the information identification and collection process becomes extremely awkward and time-consuming in both manpower and elapsed time, and requires estimating techniques (such as a data normalizing procedure) to fill the gaps. The long lead time to acquire data should also be considered when planning future similar efforts.

**F** 

The information identified and collected in Task II (published literature) and Task III (Air Force documentation) was edited and screened for the analysis and evaluation process. The evaluation consisted of three steps: a) development of a data evaluation matrix that identifies the various information source(s) and evaluates the type of information available, b) development of applicable techniques and actual computer processing of the data collected, and c) statistical analysis and presentation of the applicable information. These steps are depicted in Figure 6.

#### DATA EVALUATION MATRIX

The initial step was to develop a data evaluation matrix by analyzing and screening the data by elements, into seven major categories; i.e., a) operations, b) maintenance, c) reliability, d) safety; e) human resources, f) material resources, and g) cost. A pedigree for each element within the major categories was then formed consisting of source/agency, location, type of data/data files, and data quantity/quality as shown in the data evaluation matrix, Table 1. In addition to the identification/availability of the various data sources and elements, the matrix serves as an index of the major categories/elements of data collected and used in performing the tasks of this study program.

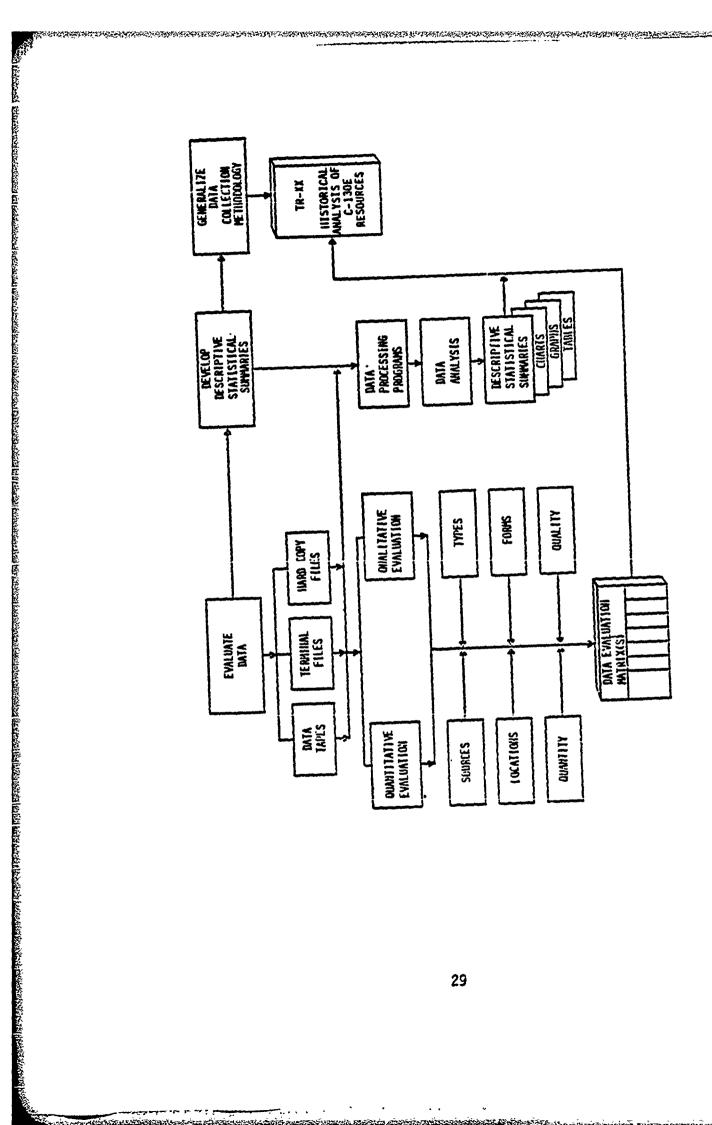
#### COMPUTER PROCESSING

To effectively and efficiently screen, analyze and portray the vast amounts of data records/elements collected, large scale computers and on-line remote terminal processing was utilized. Where practical, existing software was modified to meet the study requirements as opposed to total program development. The computer/remote terminal processing of data was divided into one of three major areas depending on type of data or analysis function. The areas are: 1) Logistics Management Data, 2) Time Compliance Technical Orders, and 3) Depot Data. The characteristics of each area are described below.

#### AREA I - LOGISTICS MANAGEMENT DATA

#### AFM 66-1/AFM 65-110 (Maintenance/Reliability/Operations Data)

This area was the largest, not only in terms of total records handled (over 5.9 million), but in statistical outputs for analysis. The data was extracted from the Standard Logistic Management System. Results of these analyses are covered in the various categories of the statistical summary section of this report. Figure C-1, Appendix C, indicates the steps taken from initial receipt of the data from AFLC through final processing. The figure also indicates the major output elements generated from each step in the flow. This allows the reader to track the processing and output elements without being totally cognizant of the software.



DATA ANALYSIS FLON DIAGRAM TASK IV FIGURE 6

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TABLE 1 DATA EVALUATION MATHIX

TRAINING MATRICE CONTINUES

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· · · ·			TYPE OF DATA			DATA OUANT	DATA QUANTITY/QUALITY
CATEGORY/ELENEHTS OF DATA	sources/Agenicy	LOCATION	OR DATA FILE	FORH(S)	RECORDS	YEAHS	REMARKS
1. OPERATIONS DATA:				•			
AIRCRAFT UTILIZATION DATA AS FOLLONS:	AFLC/HO	WPAFB, OILO	AFM 65-110 (1-HAF-A1- 110-12)	HARD COPY	1700	1962-1969	1962-1969 95 MONTHLY REPORTS CONTAINING ALL USAF AIRCRAFT REQUIRED MANUAL EXTRACTION
- NO. OF AIRCRAFT	AFL C/LOAC	WPAFB, OHIO	AFM 65-110 (1-11AF-A1- 110-12)	HARD COPY	1900	1970-T0- DATE	84 MONTILY REPORTS CONTAINING ALL-USAF AIRCRAFT REQUIRED MANUAL EXTRACTION
- TOTAL FLIGHT TIME (BY MOS/HOHTH) - AIRCRAFT UTILIZATION (FII/ACFT/MO)	-						3 3
- TOTAL SORTIES - AVENAGE MISSION LENGTH - TOTAL ANNUNCE							<b>.</b> .
- HUML CANDINGS - HUKH RATE - MORS RATE - OR RATE							
AIRCRAFT ABORTS:				• <u>•</u> •••••			
- OPERATIONS	ı	•		•	•	•	NOT OBTAINED
- MAINTEVANCE	AFLC/AC'NP	WPAFB, CHIG	DOSG SERIES REPORTS	TAPE .	5,989,175 1971-1976	1971-1976	DATA NEEDS TO BE RIFINED TO ELIMINATE DUPLICATI: ABORTS REPORTED BY WORK WHIT CODE
· - OTHER	ı	ı	1	•	1	1	HOT OBTAINED
TURN AROUND TIMI	1	ł		1	•	•	NOT ODTAINED
2. MAINTENANCE DATA:							
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- ł	SOURCES/AGI NCY	WRAL C/ HHMSS	AFLC/ACVHP	AFLC/ACVHP	AFLC/ACVHP	AFLC/ACVHP	AFLC/ACVRC	AIR FONCE SAFETY CENTER (1G/SER)
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TABLE 1 DATA EVALUATION MATRIX (CONT.)

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	1001101	MCCHORD AFB, MA LITTLE ROCK AFB,	POPE AFB. NC			RANDOLPHI AFB. TX	MASHIMGTON, D.C.	WASHINGTON, D.C.
nun un nun nun nun	SOURCE S/AGENCY	C-130E UNITS 62 MAN 314 TAN				MILITAR PER- Sonnel Center (MPC)/XPMRT	HY USAF/ACHCA	IIG USAF/ACMCA
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			TYPE OF DATA			DATA QUAN	DATA QUANTITY/QUALITY
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MATERIAL RESOURCES (CONT. IN USAT/ACMCA	iiq usar/achca	WASHINGTON, D.C.	OPERATING AND SUPPORT COST REPORT (OSCR)	LISTING	•	FY 1975	PROVIDES C-130E OPERATING AND SUPPORT COST BY VARIOUS COST EATEGREES. THIS SYSTEM WAS IMPLEMETED MITH FY 1975. FY 76 INFORMATION NOT RELEASED AS OF THE PRINTING OF THIS DOCUMENT
	C-130E UNITS 62 MM 314 TAM 317 TAM	MCCINURD AFB, MA LITTLE ROCK, AR POPE AFB, NC	MAINTENAHCE COST SYSTEM (NGS) EXECUTIVE MUNAGEMENT SUMMARES (REF AFN 177-380)	MANTIL Y REPORTS	,	JUL ' 75- DEC' 76	PROVIDES WEAPON SYSTEM DIRECT AND HUDIRECT MATERIAL COSTS BY MONTH AT BASE LEVEL. IGENTIFIES VALUE DF MATERIAL CONSUMED MITHIN MBS HITHIN HOS/NON MOS BY MONTH. HDS CATEGORIES INCLUDE AIRCAAFT. AIRFRAME, ENGINE, ACCESSORIES, LIECTRAME, ENGINE, ACCESSORIES, LIECTRAME, UPPORT, CEM, AGE AND DIHER CATEGORIES
	FUEL OFFICES C-130E UNITS 62 MM 314 TAM 317 TAM	MCCINORD AFB, MA LITTLE ROCK AFB, AR POPE AFB, NC	POL (FUEL) CONSUMPTION DATA	3		1976	PROVIDED NUMBER OF CALLONS OF UEL C-130's CONSUMED EACH MONTH DF 1976
COST DATA: - RDT&E - PROCUREN&MT	hiq usaf/acmca	MASHINGTON, D.C.	ESTIMATING AND PLAN- Ning Factors/Afr 173-10	DOCUMENT	•	CURRENT	PROVIDES OPERATIONS AND SUPPORT COST ESTIMATING AND PLANNING ACTORS FOR USAF WEAPON SYSTEMS
	IIQ USAF/ACMCA	WASHINGTON, D.C.	OPERATING AND SUPPORT COST REPORT (OSCR)	LISTING	r	FY 1975	PROVIDES C-130E OFERATIONS AND Support Cost by V.R.Rous Cost Ateories. This system MAS indle- Hented With Fy 1975. Fy 1976 in- tention with Fy 1975.
	AFLC/ACH	WPAFB, 01110	UNIT COSTS OF AIRCRAF	TECINICAL ORDER	•	CURRENT	HE PRINTING OF THIS DOCUMENT. PROVIDES AVERAGE ALRCRAFT UNIT FLYAMAY COST, BASED ON FUNDING APPROPRIATIONS.

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TABLE 1 DATA EVALUATION MATRIX (CONT.)

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DATA QUANTITY/QUALITY	REMARKS	1962-1975 PROVIDES HISTORICAL VISIBILITY INTO INDIVIDUAL CONTRACTS BY PRODUCT CATEGRATIS AGAINST THE C-130 ARICARTS TSCHE CONTRACTS REFLECT SPECIFIC AIR FORCE C-130E APPLICATION. INDIVIDUAL CONTRACT DOLLAR VALUE IS REFLECT ED FOR MOST CONTRACTS LISTED.	PROVIDES WEAPON SYSTEM COSTS DIRECT AND INDIRECT BY EACH INDIVIDUAL UNIT. INFORMATION OBTAINED WAS ONLY FROM THE 3 UNITS LISTED.	THE LOGISTIC SUPPORT COST RAWE DESIGNED TO PROVIDE AN ESTIMATE OF COST TO REPAIR, MAINTAIN, AND SUPPLY A SPECIFIC TTEM (MUC) FOR A GIVEN PERIOD. TTEM (MUC) FOR A GIVEN PERIOD. COST STELLIED MANHOUR COST, SPECIALIZED REPAIR ACTIVITY COST, SPARES/MATERIAL COST, AND PACKAGING/SIIIPPING COST, AND ANTI- ABILITY. COSTS NOT INCLUDED ART SUCH AS SAFET AND ANTI- ABILITY. COSTS NOT INCLUDED ANTI SUCH AS SAFET AND ANTI- ANTI- ANTI-COSTS OF ALL SYSTEMS ON AIRCCAFI. AND DESIGNED TO CAPTURE TOTAL COSTS OF ALL SYSTEMS ON AIRCCAFI.
DATA QUAN	YEARS	1962-1975	JUL '75- DEC-76	- 1976
	RECORDS			
ĺ	FORH(S)	LISTING	MONTHLY REPORTS	QUARTERLY
TYPE OF DATA	OR DATA FILE	DEFENSE CONTRACTS/ COST INFORMATION	MAINTENANCE COST SYSTEM (MCS) EXECUTIVE MANAGENENT SUMMARLES AFR 177-380	LOGISTICS SUPPORT CISI RANKING (IROS/KOSI) SYSTEM
I OCATION		HEW YORK, NY	MCCHORD AFB, WA LITTLE ROCK AFB AR POPE AFB, NC	WPAFB, CH HCCLELLAN AFB, CA
SMIRLES / AGEHCY		FROST AND SULLIVAN INC. C-1306 (MITS	62 MAN 314 TAU ,317 TAM	AFLC/LOLM. SCALC/ACDCN
CAYECORY JEI HINGHTE DE DATA	CALEBURY/ELETERTIS UT LAND	7. COST DATA (COHT)		

A detailed description of the processing and other manuals/technical orders used for data interpretation are contained in references 3 through 8. Derivation of, and combination of codes covered in the above references for the respective data elements and rates are explained in later sections.

## AREA II - TIME COMPLIANCE TECHNICAL ORDERS (TOTO'S)

Fleet Applicability Reports of TCTO modification kits, installed on 308 C-130E aircraft between 1962 and 1976 were evaluated. The magnitude of historical data extant within the Fleet Applicable Reports, necessitated the use of a computer system. A total of 956 computer printout pages of historical data, encompassing 308 C-130E Hercules aircraft required the recompilation and printout of selected TCTO histories, namely: a) accomplished intermediate level-installed TCTO's by aircraft tail numbers, b) installation accomplished at depot level, c) accumulated intermediate and depot TCTO installation hours by year (1962 through 1976), and d) composites of intermediate and depot kits installed by year and tail number. Figure C-2, Appendix C, provides the single thread sequential logic flow followed.

### AREA III - DEPOT DATA

Acquisition of "Depot Type" data was the most difficult. After visits to the various depots, it became apparent that the data were not weapon system oriented. Also, data that might be beneficial were contained in several different data collection systems, each designed to serve its own function. To compensate for this fragmented data and in some cases no data at all, it was necessary to rely on depot data acquired and processed for other studies being conducted within Boeing. This approach arguared to be the most fruitful within the constraints of the study as to manpower effort, data format and completeness, flow time, and computer processing, development, and execution. In addition, the results of these studies would be applicable and allow additional concentration in other data acquisition and analysis areas.

The depot data utilized were acquired from various government agencies responsible for the respective data system. These systems are described in Reference 2>.

Figure C-3, Appendix C, illustrates the complex interaction and merging of these data systems to produce appropriate results for C-130E depot information. These results are portrayed in the maintenance, cost, and summary paragraphs of this section.

As previously stated, depot maintenance data are not weapon system oriented, they are keyed to a component national stock number (NSN) with desired data elements in several data systems. To overcome this diversion and bring the data elements together under a weapon system concept, application data were used to select NSN's applicable to the C-130E, which were then correlated with the "NSN/WUC Dictionary" for component work unit code (WUC) and nomenclature, and then screened to obtain interchangeable and substitute NSN's. If additional information is desired, detail description of the programs and processing methodology are covered in Reference  $\Im$ 

### DATA NORMALIZATION

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Air Force data and records are retained, and disposed of periodically, in accordance with Standard Air Force Procedures. As could be expected, the historical support resource data for the C-130E is incomplete over the 15 year operational period of this study. Typically, six or more years' data are found to be unavailable for each data set. Therefore, to overcome this deficiency, a missing data estimation process was developed to fill the voids. The process is based on simple, least squares regression analysis of the known data and is dependent on three basic assumptions:

a. Expenditure of support resources can be related to operational parameters (where a full 15 years' data set is available) on a cause-effect basis. These relationships can take the primary form of -- Operational Parameter - causes - Support Parameter 1 -- or the secondary form of -- Operational Parameter - causes - Support Parameter 1 - causes - Support Parameter 2.

b. The relationships detected can be represented by straightline functions.

c. The missing data years are within the relevant range of the straightline functions representing the data.

A general description of the process for estimating the missing data, based on the foregoing assumptions, is provided in Appendix C.

### DATA DEVELOPMENT

The vastness of data acquired and the various types and categories of data presented a unique situation in data handling and management. These data consisted of over 900 published documents/reports/listings/ indexes/ and 6.1 million records which required approximately 36,000 separate computations to develop statistical analysis and summations.

To effectively and efficiently handle the data and ensuing computations, a remote terminal computer system was employed to complete three major functions:

- a. Historical Weapon System Data Bank Category Extraction;
- b. Normalization Distribution, and
- c. Data tape development and compilation.

Boeing Document, D745-10042-1, "Depot Maintenance Data Processing Definition."

Appendix C illustrates this procedural flow and provides a step by step explanation. A data tape of the pertinent information of all tasks was developed.

### STATISTICAL SUMMARIES

### C-130E BACKGROUND

It seems appropriate at this point of the study to present a brief history and description of the C-130E aircraft. Limited by the scope of this task and the extensive time period under examination, a comprehensive treatment of all significant aspects of the aircraft is not within the scope of this study.

Although this study is devoted to the "E" series of the C-130 family, the following significant milestones and hereditary tree will bring the "E" into a proper perspective.

Major Initial Milestones

Development contract:	1952
Prototype flights:	1954
First C-130A deliveries:	1956
First C-130B deliveries:	1958
First C-130E deliveries:	April 1962

Series Distinctions

YC-130: Prototype mode!, two of which were built.

YC-130A: The initial production version with 3,750 shp Allison T56-A-1A 'or -9 turboprops. Some 231 were built before production ended, including 12 for the Royal Australian Air Force. Developments and modifications to the basic C-130A include the following:

<u>AC-130A:</u> Gunship configuration. Weapons include four 20mm Vulcan cannons and four 7.62 mm miniguns, all Gatling-type guns with a combined rate of fire of 34,000 rounds per minute.

<u>DC-130A</u>: Similar to C-130A, except capable of controlling a drone aircraft or missile. Crew of four. The Naty has two.

<u>RC-130A</u>: AC-130A modified to perform electronic aerial geodetic surveying and mapping.

<u>C-130D</u>: A small group of C-130As modified for USAF service in the Antarctic with combination wheel/ski landing gear.

<u>RC-130S</u>: Modified to carry the Battlefield Illumination Airborne System (BIAS).

<u>C-130B</u>: A modification of the C-130A with increased fuel capacity, more powerful T56-A-7 engines and heavier landing gear. Deliveries were made to Indonesia, Canada, Pakistan, South Africa, and the US. Developments and modifications of the basic C-130B include the following:

<u>HC-130B</u>: A Coast Guard version with special equipment for search and rescue.

<u>JC-130B</u>: Modified C-130Bs equipped for Discoverer satellite recovery.

<u>NC-130B</u>: An experimental boundary layer control test bed for USAF, with T56-A-6 turbojet engines mounted under the wings. One-of-a-kind.

WC-130B: A C-130B modified for Air Weather Service.

C-130F: A Navy utility transport, formerly GV-1U.

KC-130F: Marine Corps aerial tanker with crew of seven.

<u>LC-130F</u>: A Navy ski-equipped cargo/personnel transport for Antarctic service.

<u>C-130G</u>: Similar to C-130 except for changes in certain electric and electronic areas.

EC-1300: ECM version, used primarily by the Marines.

C-130E: Similar to C-130B but with increased fuel, weight and load carrying capacity. It is capable of carrying 92 troops, 65 paratroops, or 74 litters with two attendants. Ten of these, equipped with AN/USC-15 command and control capsules, are used for the Airborne Command and Control (ABCC) role. The C-130E is in the inventories of Argentina, Brazil, Chile, Iran, Australia, Canada, Chile, Peru, Saudi Arabia, Sweden, USAF and U.S. Coast Guard. Developments and modifications of the basic C-130E include:

AC-130E: An improved gunship variation with "Suprise Package" avionics including Low Level Light Television (LLLTV), infrared and night observation devices. Weapons carried include twin 40 mm Bofors cannons, two 20 mm Vulcan cannons and two 7.62 mm miniguns.

DC-130E: A drone control version for the Air Force.

<u>EC-130E:</u> A special version for the Coast Guard, used for electronic calibration of LORAN equipment.

<u>HC-13UE:</u> Specially equipped for search and rescue missions. Formerly designated SC-13UF.

<u>LC-130R</u>: Has Naval avionics, T52-A-16 engines, cold weather modifications and skis.

WC-130E: Modified for Air Weather service.

<u>C-130M</u>: A C-130E with C-130B forward cargo door installed and some C-130B avionics. A MAP aircraft.

<u>C-130H:</u> A C-130E airframe equipped with more powerful T56-A-15 engines and improved avionics. Developments and modifications to the basic C-130H include:

<u>HC-130H</u>: Similar to HC-130E, except for more powerful T56-A-15 engines. Has greater range due to increased fuel capacity in the fuselage and carries the Fulton surface-to-air recovery system with nose-mounted yoke. The HC-130H is primarily used for search, rescue, surface-to-air recovery of downed crews, and air-to-air retrieval missions.

<u>C-130K:</u> Basically a C-130H, modified for use by the Royal Air Force, with primarily British avionics. Sixty-six were delivered to RAF Air Support Command.

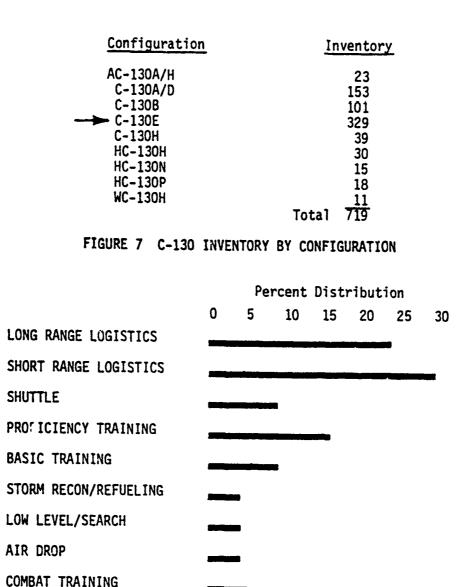
The C-130 was designed and constructed as an assault transport by the Lockheed-Georgia Company, Marietta, Georgia, yet it is used to perform several different missions, as indicated:

C-130A/B/D/E/H	Logistics (Air Land/Air Drop of Cargo and Troops)
AC-130A/H	Gunship Operations
DC-130A/E	Control Aircraft for Drone
RC-130A	Photomapping
HC-130H/N/P	Search and Rescue
JC-130B	Missile Tracker
WC-130B/E/H	Weather Recon

The number of C-130E aircraft (as of fiscal year 1977) and the percent to which the fleet is utilized is shown in Figure 7 and 8.

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As a prelude to the statistical system summaries and respective trends, and for a better understanding of the aircraft and its various systems makeup, Figures C-4 through C-9, Appendix C, reflect the aircraft's major dimensions, specifications, characteristics, and the highlights pertaining to each system. 

### CATEGORIES OF DATA

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Seven major categories of data were developed to logically and systematically portray the data acquired and aid computer processing

and analyses: 1) <u>operations</u>, 2) <u>maintenance</u>, 3) <u>reliability</u>, 4) <u>safety</u>, 5) <u>human resources</u>, 6) <u>material resources</u>, and 7) <u>cost</u>. Each of these are discussed separately in detail in the form of charts, tables, figures, and results/findings to portray a historical 15 year footprint from the first year of introduction into Air Force service (1962) through present (1976).

### OPERATIONS DATA

To set the stage for this category and the ensuing six, it is appropriate to iterate that this section of the document will be primarily devoted to the analysis and statistical presentation of 15 years worth of C-130E data. To acquaint the reader with the events in history that took place prior to and during the study time period in which the C-130 played a major role and thus the generation of these data, one must start with the Congo Airlift. Between 1960 and 1964, the U.S. Air Force flew more than 2,000 missions in history's longest airlift (up to that point in time), reaching 5,000 miles from Europe around Africa's coast to the Congo. Next came the October 1962 Cuban Crisis where ammunition for TAC composite air strike forces was rapidly airlifted to Florida, and U.S. Marines to Guantanamo Bay, Cuba. The C-130E's were also heavily involved in the airlift operations to Vietnam which began in the early 1960's and accounted for the surges or peakes in the statistics so evident in the other categories. During this same peak period, 1965 through 1966, the Dominican Republic crisis also required heavy airlift support. Since these major incidents and with the introduction of the C-141 into the inventory, there has been a general reduction in C-130E utilization.

### Statistics

The commonly referenced aircraft operational parameters are shown in Table 2. Definitions and derivations of these parameters are covered in the Glossary of Terms. Table 3 is a summary of the aircraft procurement and Table 4 the individual aircraft serial numbers. In Table 3 the aircraft attrited and active aircraft columns are for aircraft of that serial number year and should not be interpreted as for that calendar year.

Data source for Table 2 was AFM 65-110 (1-HAF-A1-110-12) and for Table 3 and 4 was WRALC (MMSRBA) C-130E Serial Chart/ER-70-70M.

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#### MAINTENANCE DATA

The maintenance of most weapon systems constitutes the major portion of resources and effort and this statistical presentation and analysis is no exception. To systematically portray the information, the data were divided into divisions, mainly manhours, tasks, TCTO, and other. These divisions are depicted in Figure 9. The other category consisted of those areas where although they would appear to be subsets of the other three, the data appeared to dictate a separate division. TABLE 2 C-130E OPERATIONS STATISTICS

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69.5     74.3     71.2     68.0     68.7     69.3     68.2     69.0     9.1.3       6.4     2.4     1.7     2.0     3.5     3.4     3.3     4.4     3.7     4.3       6.1     2.2     0.8     1.4     1.7     5.0     3.5     3.4     3.7     4.3     4.0       7.1     2.0     3.5     3.4     3.3     3.7     2.7     3.7     4.3       2.4.1     23.3     21.3     21.4     3.3     3.7     27.4     27.3     31.8       2.4.1     23.3     24.6     24.3     3.4     3.3     27.4     27.3     31.8     34.9       2.4.1     23.3     24.6     24.3     24.5     27.4     27.3     31.8     34.9       2.4.1     23.3     21.4     3.7     27.4     27.3     31.8     34.9       2.4.1     23.4     21.4     27.4     27.3     31.8     34.9       2.4.1     23.4     21.4     27.4     27.3     31.8     34.9       2.4.1     0.3     0.3     0.3     27.4     27.3     31.4       2.4.1     0.3     0.3     0.3     0.3     0.3     0.3       2.5.1     0.3								İ								0.03
6.4     2.4     1.7     2.0     3.5     3.4     3.3     4.4     3.7     4.3       -     2.0     1.6     1.4     1.7     5.0     2.0     1.4     1.7     4.0       -     2.0     1.6     1.4     1.7     5.0     3.1     3.7     4.1     4.0       -     2.0     1.6     1.4     3.7     5.0     1.0     1.1       24.1     23.3     24.0     28.5     27.9     27.4     27.3     31.8       -     -     -     -     -     5.0     4.9     6.2     8.3       -     -     -     -     -     5.0     4.9     6.2     8.3       -     -     -     -     -     5.0     4.9     6.2     8.3       -     -     -     -     -     -     2.4     2.1     1.9       -     -     -     -     -     2.1     2.1     2.1     1.1       -     -     -     -     -     2.1     2.1     2.1       -     -     -     -     -     2.1     2.1     2.1       -     -     -     -     2.1     2.1     2.1 <td>RA. 9 80.7 74.9 72</td> <td>74.9</td> <td></td> <td>•</td> <td>_</td> <td>74.3</td> <td>. 11.3</td> <td>27.57</td> <td>68.0</td> <td>68.7</td> <td>- <del>[]</del></td> <td>68.2</td> <td>69.0</td> <td>2</td> <td></td> <td></td>	RA. 9 80.7 74.9 72	74.9		•	_	74.3	. 11.3	27.57	68.0	68.7	- <del>[]</del>	68.2	69.0	2		
·     1.4     2.2     0.8     1.4     1.7     5.0     7.0     8.0     6.6     6.4       21.1     23.3     21.0     3.5     3.4     3.3     3.7     3.7     4.3     4.0       21.1     23.3     24.0     28.5     27.9     27.4     3.7     4.3     4.0       21.1     23.3     24.0     28.5     27.9     27.4     27.4     27.3     31.8       21.1     23.3     24.0     28.5     27.9     27.4     27.4     27.3     31.8       21.1     2     -     -     -     -     5.0     4.9     6.2     8.3       -     -     -     -     -     -     5.0     4.9     5.0       -     -     -     -     -     -     5.0     8.3       -     -     -     -     -     22.4     22.6     26.1       0.7     0.9     1.0     0.1     0.1     0.1     0.1     6.1	6.7 7.9	2.9		7		2.4	1.2	2.0	3.5		3.3	-			•	
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24.1     23.3     24.0     24.6     24.5     27.4     27.4     27.4     27.3     31.6     34.3       -     -     -     -     -     -     -     6.2     6.3     3.3       -     -     -     -     -     -     6.2     6.3     3.4       -     -     -     -     -     6.2     6.3     3.4       -     -     -     -     -     6.2     6.3     3.4       -     -     -     -     -     25.6     26.1     -       -     -     -     -     22.4     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -     -     22.4     25.6     26.1       -     -     -     -	•	•	•		•	2.0	1.6	<b>2</b> .0	3.5	-					•	<u>7</u> ;;
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TABLE 3 C-130E AIRCRAFT PROCUREMENT SUMMARY BY AIRCRAFT SERIAL NUMBER YEAR

Serial Number Year	Aircraft Count	Aircraft Attrited		Active Aircraft Aircraft Age in Years*
1961	16	. ;	51	51
1962	1	16	67	2
<b>1961.</b>	691	12	161	13
1964	z	11	5	12
1961	17	-:	2	••
6961	•	2	11	~
0/61	=	;	91	•
1972	12	1	12	-
TOTAL	403	Ŧ	362	11.9

· Assumes aircraft was produced in that serial number year.

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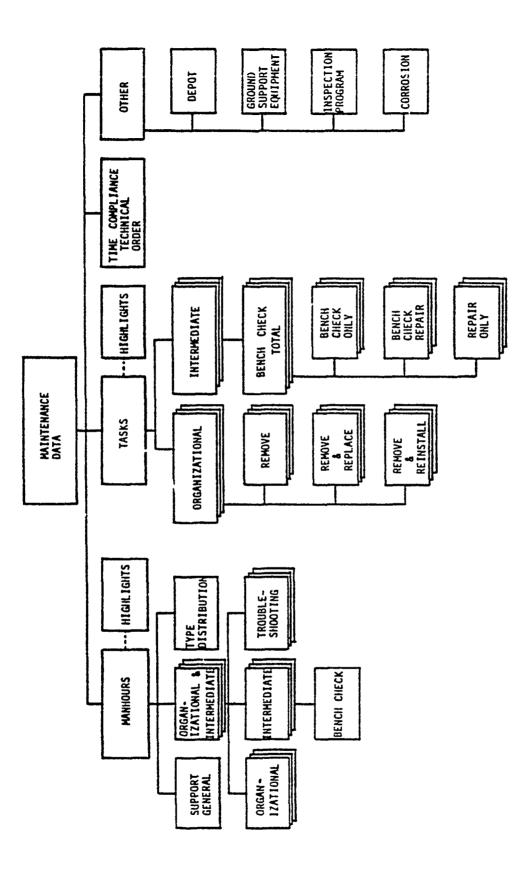
	241		1972 TOTAL 12 CUM TOTAL 403	
	KI		1570 TOTAL 16 CLM TOTAL 201	
IUMBER)	1960	93839555555555595 <b>8</b>	1945 TOTAL 15 CLM TOTAL 213	
AIRCRAFT (BY YEAR/SERIAL NUMBER)	144		1968 TOTAL 17 CUM TOTAL 354	
T (BY YEA	1964		1964 TOTAL 96 CLM TOTAL 337	
AIRCRAF		<b>,</b> <b>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</b>	1961 1961	
USAF C-130E			1 10	
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FIGURE 9 C-130E MAINTENANCE DATA BREAKDOWN

In general, each minor division is further sub-divided into three areas of presentation: a) per 1000 flight hours, b) percent distribution, and c) per sortie. In these presentations the following features are highlighted for ease in interpretation and understanding. Each year of normalized data is indicated with an asterisk (\*), all others are actual acquired data. Generally, if a given data element value is zero, data were available but after computing, the result was insignificant. If a dash (-) appears, it signifies no data were acquired or recorded/reported. Variations in decimal presentations resulted from using previously determined values and computer generated values.

Tables D-1 through D-47 are provided in Appendix D. They are selfexplanatory, only those that require additional explanation or contain significant anomalies will be discussed.

# SUPPORT GENERAL - TABLE D-1

This table depicts the support general manhours expended on the C-130E aircraft during the 15 years under consideration. It is significant to note that only four years of actual data are displayed, with the remaining being derived from the normalization process. This is a departure from the majority of the data tables in that eight years of actual data are normally shown. The lack of data is caused by Air Force policy in that only 03 and 04 support general data are forwarded to AFLC from operational bases. Total data are retained by the bases for one year and (outside of data on hand at Boeing), only the current year was acquired.

# TYPE DISTRIBUTION - TALLE D-5

This table shows the percent cistribution of organizational and intermediate (combined) manhours by servicing (SV), scheduled (SC), unscheduled (UN) and other (OT). The distribution covers each aircraft system and for only the years 1971 through 1976. This type of percent distribution data does not, for obvious reasons, lend itself to meaningful normalization results. If a manhour distribution were desired for a given year, prior to 1971, the six year percentage averages of actual data could be applied to determine the spread.

The type maintenance codes used in each of the four divisions are covered in the definition section of this report.

#### ORGANIZATION MANHOURS - TABLE D-9

The significant anomalies noted for this breakout of manhours fell into systems 64 and 65 for 1971 and systems 12, 14, and 41 for 1974. It should be noted that in order to determine the reason for this irregularity, <u>actual</u> data are required and preferably on both sides of the year in question. Also, this in itself is limited to the quantitative aspect and brief malfunction coding of the data. Qualitative data would be required from the using organizations which was beyond the scope and resources of this study. Even then, for older problems, it would be difficult if not impossible to obtain. Therefore, only what can be gleaned from the data, historical reports, and most probable causes are indicated.

# Cockpit and Fuselage Compartment (12) - Table D-9

During 1974 the organizational manhour expenditures increased 58% over 1973. The dual rail cargo kit, aft cargo, and forward cargo furnishings accounted for 53% of this increase with each increasing 95, 99, and 78 percent respectively. The dual rail cargo kit's primary malfunction mode was "no defect," with 82% of the actions being to remove and install.

In the aft cargo subsystem the primary manhour contributors were the cargo securing equipment, general furnishings, and equipment stowage. Each increased 185, 215, and 90 percent, respectively. Loose or missing bolts-nuts-screws were the primary malfunction modes. are the second 
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For the forward cargo furnishings, the general furnishings, cargo securing equipment, and floor panels were the major contributors. Each increased 704, 399, and 93 percent, respectively. Similar to aft cargo, the same malfunction modes prevailed with a pronounced increase in "no defect" remove and install actions.

Equipment modifications or increased familiarity with the system appears probable as the manhour expenditures reduced in 1975 to almost a pre-1974 level.

### Flight Controls (14) - Table D-9

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A second area of significant organizational manhour (Table D-9) expenditure increase, up 42%, was in flight controls. The mechanical components in the wing flap, elevator tab, and elevator assembly accounted for 70% of this increase with each increasing 47, 187, and 68 percent respectively. Within the wing flap system, the housing assembly, jackscrew and center flap assembly each increased 371, 71, and 36 percent respectively. The primary modes were loose or missing nutsbolts, etc., cracked, and dirty. In the elevator tab assembly, the flexible shaft and tab itself exhibited 534 and 62 percent increases respectively. "No defect" time change mode accounted for this departure. The access plate, cable assembly, and elevator torque tube increased 359, 188, and 157 percent respectively within the elevator ássembly. The same modes prevailed here as in the tab. This inspection and replacement effort was completed in 1974 and the manhour expenditure reduced to a pre-1974 level in 1975.

# Air Conditioning, Pressurization, and Anti-Ice (41) - Table D-9

The system manhour expenditure increased 38 percent with the water separator, refrigeration unit, and anti-ice radome accounting for 25 percent. Remaining increase components were scattered throughout the system. In general, components within these subsystems were being removed as "no defect" in compliance with scheduled maintenance and technical order incorporation.

## Interphone (64) - Table D-9

Systems within the aircraft did not always increase the manhours but <u>decreased</u> as was the case in the interphone from 1971 to 1972. Although the decrease was not as significant, only 16 percent, as the previously discussed increases, it does show improvements to the aircraft. Analysis of the data malfunction modes did not indicate a probable cause for this improvement.

IFF (65) - Table D-9

This system also fell into the improvement category with a significant <u>decrease</u> in manhour expeditures of 72 percent between 1971 and 1972. In this instance, the reduction was attributable to the replacement of the AN/APX-25 with the AN/APX-72 (AIMS) system.

### INTERMEDIATE MANHOURS - TABLE D-12

In this category of manhour expeditures four systems are worthy of mention: systems 12, 42, 47, and 65 (the first two for the 1976 year the last for the 1971 period).

# Cockpit and Fuselage Compartment (12) - Table D-12

Following the pattern of system 12 organizational manhours the intermediate manhours increased 150 percent, but for a totally different reason. In this case the furnishings for the center cargo, flight deck, and forward cargo increased 317, 210, and 150 percent, respectively, representing 79 percent of the total increase. Analysis of the data showed that the cargo compartment insulation blankets, crew seats and seat cushion repairs were the major contributors. It would appear that a general housekeeping improvement effort was undertaken.

Electrical Power (42) - Table D-12

This system increased 60 percent in manhour expeditures with the battery accounting for almost 90 percent. Examination of the data did not indicate a plausible reason for this change.

## Oxygen (47) - Table D-12

A reduction in manhours for this system of 55 percent was primarily attributed to the GCU-171A converter and CRU-471A regulator, which decreased 60 to 30 percent. respectively. Analysis of the malfunction modes indicates that the previously reported leakage problem has been corrected. This was probably due to improved sealing or procedural changes.

### IFF (65) - Table D-12

As discussed in the previous organizational manhour section, the change from AN/APX-25 to AN/APX-72 also provided a 79 percent <u>reduction</u> in intermediate manhour expeditures.

## MAINTENANCE TASKS - TABLE D-18

It is apparent in a weapon system that has been in the inventory for many years like the C-130E, an increase or decrease in organizational or intermediate manhours will generally have the same effect on tasks. Yet, the increase or decrease may be more evident in one category than the other. Therefore, in the analysis of task variance, only systems with anomalies not previously covered will be discussed in this section.

### Airframe (11) - Table D-18

The organizational airframe tasks increased 86 percent in 1974 over 1973 with the cargo section and wing inboard increasing 107 and 80 percent, respectively. The wheel well assembly area and associated access plate, wing trailing edge area and inboard panel were the primary task contributors with loose or missing rivets, screws, or fasteners. These types of malfunction repairs would account for a task count increase.

### Lighting System (44) - Table D-18

This system experienced a 100 percent increase in organizational tasks between 1973 and 1974. The predominate component was the bulb used in the cargo dome lights, formation lights, and instrument panel lights. The data did not indicate the reason for this mass replacement; However, the following year the task rate was back to normal.

# TIME COMPLIANCE TECHNICAL ORDER (TCTO'S)

Time Compliance Technical Orders (TCTO), used as the contract vehicle for modification of the C-130 weapon system were collected, and analyzed. The data acquired from Warner Robins Air Logistics Center (WRALC), Robins Air Force Base, Georgia (RAFB, GA), included C-130E Fleet Applicability Report TCTO histories of 308 C-130E aircraft. The file covered the period of 1962 through 1976. TCTO data acquired from these reports provided a comprehensive compendia of TCTO's installed at the field/intermediate/depot level denoting the following data fields by C-130E aircraft:

- TCTO number(s).
- 2) Date, code number.
- 3) Technical Order date.
- 4) Rescission date.
- 5) Status completion date.
- 6) Reported manhours required to install each TCTO kit.

The manner in which these data were compiled, formatted and analyzed in delivering TCTO results annotated below, was summarized in Figure C-2 (appendix C). C-130E Freet Applicability Data, are displayed in tabular form or frequency polygons below.

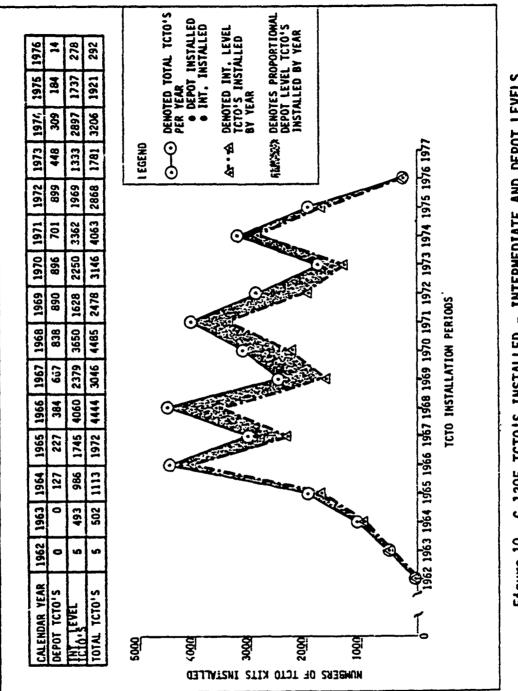
### TCTO Installation Histories (Intermediate and Depot Levels)

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Data synthesized/compiled and printed out via computer, were manually plotted into frequency polygons. These polygons as reflected in Figures 10 and 11 depict: a) Accumulated numbers of TCTO kits installed at the intermediate maintenance level during the calendar years of 1962 through 1976, b) accumulated numbers of TCTO kits installed at the depot maintenance level during 1962 through 1976, c) composites of intermediate and depot level TCTO kits installed during each year of the fifteen year period, d) hours expended to install TCTO kits at the intermediate maintenance level during each of the 15 years, e) hours expended to install TCTO kits at the depot during the 1962-1976, and f) a composite of total hours expended to install TCTO's at the intermediate and depot maintenance levels. These figures provide comprehensive compendia of TCTO installation numbers, and hours accrued by 308 C-130E aircraft.

### Installed TCTO Kits (Intermediate and Depot Level)

It becomes apparent by inspection of Figure 10 that modifications at the intermediate level were sporadic. This is principally due to contracting methods employed by the Systems Program Office (SPO) as well as phasing/scheduling of kit production line. The multi-modal frequencies noted during 1966, 1968, 1971 and 1974 reflect the manufacturer's production line surges and resultant batcn installations that occur. These multi-modal distributions as depicted in Figure 10 have been observed in other weapon systems such as the E-52's, and Minuteman. Accumulated TCTO kits installed at the depot during the 15 year period reflect some characteristics of a normal distribution with a truncated number of kits installed during 1971. Apparent within this figure is the obviously smaller number of kits installed at the depot as compared to that experienced at the intermediate maintenance level. However, this can not be used as an indicator of concomitant TCTO hour accumulations that one might expect in the area of intermediate maintenance. Although most TCTO kits are installed at the intermediate maintenance level, the average installation hours per TCTO is one order of magnitude less than that experienced at the depot. Less than 900 TCTO kits were installed at the depot (1972) as compared to 4060 kits installed at the intermediate level during the peak year of 1966. It is suspected that the marked reductions of depot installed kits (apparent during the 1973 through 1976 time period) merely represent an intermission or interlude and that a rise in depot installed TCTO kits or modifications can be expected in the future. Further, apparent from the acquired data is the fact that TCTO kits to be installed into designated aircraft at the depot, accumulate or are queued, scheduled and implemented on a more consistant basis than that experienced at the intermediate level.



C-130E TCTO'S INSTALLED - INTERMEDIATE AND DEPOT LEVELS Figure 10

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Figure 10 provides a composite overview of all TCTO kits installed between 1962 and 1976. This figure provides an excellent illustration of the relative proportional differences of numbers of intermediate and depot level kits installed during any given year between 1962-1976. The table on this figure provides a numerical summary of numbers of kits installed by maintenance level during each of the 15-year intervals.

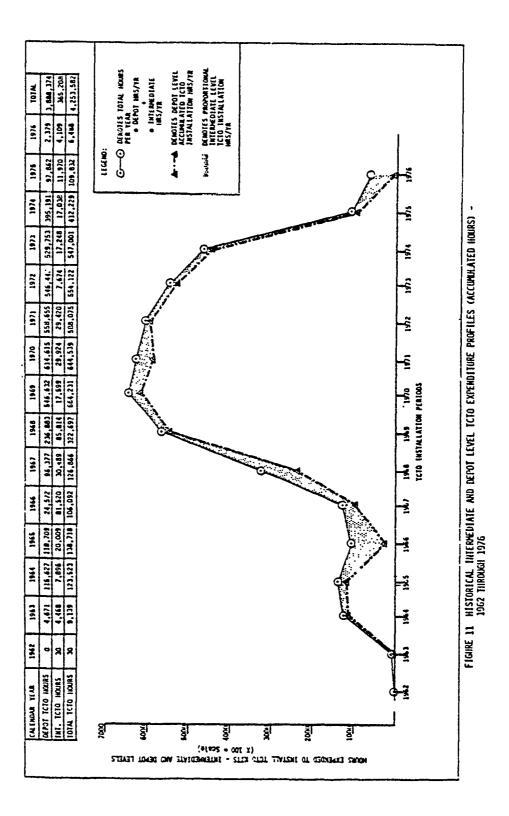
### TCTO Installation Hours

The multi-modal distribution of accumulated hours to install kits at the intermediate level and depicted in Figure 11, parallel somewhat the same multi-modal distributions found in Figure 10. Peaks of 81,570 and 85,814 hours occurring during 1966 and 1968 respectively, represent the highest installation/manhours profiles that have occurred throughout the reporting period. Significant reductions in TCTO installation hours per year occurring from 1969 through 1976 follow the general downward trend of numbers of kits installed during the same reporting period. The relatively low numbers of accumulated installation hours per year, when compared with the high number of TCTO kits installed per year clearly demonstrate that modifications accomplished at the intermediate level are limited to those kits requiring less than 25 installation hours per kit.

Annual profiles of hours expended to install depot controlled kits reflect an inverse relationship to numbers of kits installed per annum. Significantly greater numbers of hours are expended at the depot than at the intermediate level. This is in spite of the fact, that fewer kits are installed at this maintenance echelon. Figure 11 clearly demonstrates that major modifications, planned and scheduled on the C-130E weapon system, are conducted under the auspices and control of AFLC depot repair sites. Further, it is apparent, that a latency in modification needs occurred with the C-130E aircraft. Dramatic increases in accumulated TCTO installation hours did not occur until after 1967 whereas intermediate installation hours reflect a more general or diffuse distribution earlier in the lifetime of the C-130E aircraft. This is as would be expected as the Aircraft Structural Integrity Program (ASIP), resulting in major modifications to the outer wings, center wing, empennage and fuselage did not occur until 1968. Furthermore, continued high depot consumption hours per year subsequent to 1968 reflect the on-going needs of depot modifications due to aircraft aging. Figure 11 provides a composite distribution of accumulated TCTO kit installation hours at both the intermediate and depot maintenance echelons.

A total of 4,253,582 kit installation hours were recorded against the 308 C-130E aircraft between 1962 and 1976. Depot accounts for 91% (3,888,374 hours) of all accountable installation hours.

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### DEPOT MAINTENANCE ACTIONS

As previously discussed in the computer processing section on depot data, two primary data categories were assembled: maintenance actions (tasks) and cost per flying hour. The cost results are covered in the applicable section and the maintenance actions (tasks) per 1000 flight hours and percent each system contributed to the total is shown in Table 5.

### GROUND SUPPORT EQUIPMENT

Historical data on ground support equipment specifically dedicated to the C-130E were integrated within the total used. As in other areas of data uncovered within this study the cost in resources to acquire, process, and analyze data was prohibitive to the overall objectives.

To provide some insight into the type and quantity of equipment assigned, operating time, and cost, Table 6, is a composite of ground support equipment (GSE) information acquired during the base visits.

#### INSPECTION PROGRAM

During the time period of this study the maintenance inspections employed on the aircraft have been both fixed, such as preflight, basic postflight, etc., and variable covering the hourly postflight, periodic, phase, and isochronal concepts. Figure 12 shows the current maintenance and inspection programs. These programs provide a complete spectrum of review and each program contains inspections of some critical area peculiar to the program. The respective inspection task and flying hour interval at which each task will be accomplished is reflected in the Figure. The programmed depot maintenance (PDM) covers those areas that must be accomplished at the depot due to equipment, skills, tools, facilities, and/or economy. A majority of the fleet is on a 36 month PDM interval. A portion of the C-130E's are on a 24 month interval due to more severe operating environment/ mission profiles. The analytical condition inspection (ACI) requirements are accomplished in conjunction with the PDM.

#### CORROSION

The C-130E Appendix C - Strengths, Weaknesses and Problem Area (1962-1976) of Reference Contains discussions on corrosion as they occurred chronologically starting with 1962 through the present. Since these data were narrative in nature and not statistical, D056E (AFM 66-1) was analyzed for additional information. Immediately it become obvious that statistically all corrosion actions and manhours

AFHRL-TR-77-40, C-130E Hercules Aircraft: Review of Published Literature and Structured Interviews.

SYS.		FY 197	5-1976
NO.	SYSTEM NAME	MAINTENANCE ACTIONS/ 1000 FH	SYSTEN # OF TOTAL
11	AIRFRAME	2.128	0.36
12	COCKPIT AND FUSELAGE	4.135	0.71
13	LANDING GEAR	24.503	4.20
14	FLIGHT CONTROLS	7.566	1.20
22	TURBO PROP POWER PLANT	-	-
24	AUXILIARY POWER PLANT	7.014	1.20
32	HYDRAULIC PROPELLER	18.379	3.15
41	AIR CONDITIONING, PRESSURIZATION	22.466	3.85
42	ELECTRICAL POWER SUPPLY	6.459	i.11
44	LIGHTING SYSTEM	-	-
45	HYDRAULIC AND PNEUMATIC	11.126	1.91
46	FUEL	22.842	3.91
47	OXYGEN	7.716	1.32
49	MISCELLANEOUS UTILITIES	4.511	0.78
51	INSTRUMENT:	13.171	2.26
52	AUTOPILOT	17.004	2.91
55	MALFUNCTION ANAL. & RECORDING EQUIP.	-	-
61	HF COMMUNICATIONS	4.507	0.77
62	VHF COMMUNICATIONS	0.538	-
63	UHF COMMUNICATIONS	5.114	0.88
64	INTERPHONE	1.454	0.25
65	IFF	2.361	0.40
66	EMERGENCY COMMUNICATIONS	3.026	0.52
69	MISC. COMMUNICATIONS	-	-
71	RADIO NAVIGATION	14.062	2.40
72	RADAR NAVIGATION	32.094	5.50
91	EMERGENCY EQUIPMENT	-	-
96	PERSONNEL EQUIPMENT	-	-
97	EXPLOSIVE DEVICES	-	-
<del>*</del> 99	MISC.	351.951	60.25
	TOTAL	584.127	•

 TABLE 5
 C-130E
 DEPOT
 MAINTENANCE
 REPAIR
 TASKS
 BY
 SYSTEM

 (EXCLUDES ENGINES)

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\*NOTE: MISC. INCLUDES ITEMS FROM ALL SYSTEMS WHERE NO MATCH COULD BE MADE BETWEEN NSN/WUC

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TABLE 5 C-130E GROUND SUPPORT EQUIPMENT (TYPICAL UNIT)

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ESTIMATED OPERATING HOURS PER MONTH UNIT COST	225 \$12,000.00	50 2,730,00	25 4,032.00	50 2,964.00	3 24,308.00	25( Oct-Mar 0 Apr-Sep 2.542.00	1 11,774.00	30 6,677.00	120 Summer 0 Winter 3,796.00	300 Summer 14,258.00	5 5,376.00	250 AMS	720 3,262.00	60 11,794.00
QUANTITY ASSIGNED HOURS P	36	17	Q	6	Q	36		2	2	L	-	4	-	2
NOMENCLATURE	MD-3	NF-2 Light	MC-1A Airc	MC-2A Airc	MA-1A GTC	H-1 Heater	MJ-1 Hyd Test St	AF/M27M-1 Jacking Manifold	HDU/13M Heater	MA-8 Air Cond	MC-7 Air Comp	MD-4 Mtr Gen	MB-8 Air Comp	AM24T-8

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	LEVEL	INSPECTION	INTERVAL
	ORGANI- ZATIONAL	PREFLIGHT THRUFLIGHT	BEFORE FIRST FLIGHT OF THE DAY BETWEEN FLIGHTS WHEN FLIGHT IS TO BE CONTINUED AND BASIC POSTFLIGHT IS NOT
		BASIC POSTFLIGHT	REQUIRED AFTER THE LAST FLIGHT OF THE FLYING PERIOD
		PHASE/ISOCHRONAL	300 HOURS (ANG)/ISOCHRONAL BASED ON UTILIZATION
56	->-	SPECIAL INSPECTIONS	ACCOMPLISHED AT ACCRUAL OF SPECIFIED NUMBER OF FLYING HOURS OR LAPSE OF CALENDAR TIME
	DEPOT	PROGRAMMED DEPOT MAINT (PDM)	24 AND 36 MONTHS
	ORGANI- ZATIONAL	CONTROLLED INTERVAL EXTENSION (CIE)	42 AND 48 MONTHS
	DEPOT	ANALYTICAL CONDITION INSP (ACI)	IN CONJUNCTION WITH PDM
		FIGURE 12 C-130E MAINTEN	MAINTENANCE AND INSPECTION PROGRAMS

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were not discernible as some became part of other tasks. For a recent time period of C-130E data, only 1.21% of the total organizational tasks were identifiable as corrosion which in turn represented only .85% of the total aircraft system maintenance manhours.

The data system does allow for the identification of corrosion tasks and manhours but accurate reporting requires time and effort to separate and record the corrosion part of any repair task.

#### RELIABILITY DATA

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Reliability as defined in AFM 11-1, Volume I  $\bigcirc$  is:- "The probability that a system, subsystem, or equipment will perform a required function under specified conditions, without failure for a specified period of time." This section of the report covers the statistical results via various parameters of components that did not meet that criteria.

The resultant analysis of processed AFM 66-1 data, both actual and normalized, has been divided into five major categories: a) organizational and intermediate failures, b) components repaired off base or NRTS, c) components condemned, d) material mission aborts, and e) percent of failures via when discovered. The first three categories are shown by system via three breakouts: a) per 1.000 flight hours, b) percent distribution, and c) per sortie. The fourth category has these same breakouts with an additional display of aborts via ground and flight per 1000 flight hours.

The fifth category required the grouping of both organizational and intermediate failures into four separate "when discovered "divisions: a) before flight, b) in-flight, c) between flight, and d) during an inspection. As with all categories/divisions within this report the definition of terms explicitly defines the respective makeup of codes used to arrive at the term.

Since specialized processing was required for this fifth category distribution and the normalization process would not lend meaningful results only the most current year was analyzed. Table E-1, Appendix E, displays the results by system.

Tables E-2 through E-4 display the failure statistics; E-5 through E-7 the components repaired off base or NRTS, E-8 through E-10 the condemned components; and E-11 through E-14 the material mission aborts.

ID AFM 11-1, Volume I, USAF Glossary of Standardized Terms.

Following the same pattern as in the maintenance section, only those tables that require additional explanation or contain significant anomalies will be discussed.

### Failures - Airframe (11)

During 1974, the failures in this system had a very significant increase over 1973, slightly over 100%, as indicated in Table E-2. Four major areas: cargo, wing in-board, nacelles, and doors (paratroop, main landing gear, crew) accounted for almost 54% of this increase. The primary malfunction modes were loose or missing bolts-nuts-screws and cracks. These types of malfunctions are indicative of wear out, as the C-130E was 13 years old in 1974. Although the rate did drop 28% the following year (1975), the rate is holding higher than the 15-year average value.

### Failures - Air Conditioning, Pressurization (41)

The failure rate in this system for 1974 increased almost 95% over 1973, as shown in Table E-2. The major areas: engine anti-ice, bleed air, and cargo and flight compartments air conditioning controls accounted for 40% of the increase. Specifically, the ice detector probe, bleed air valves and filter, thermostat, blower motor, and temperature control box in the compartment air conditioning were the primary failure components. The significant feature with these failures, was that all had the same basic malfunction modes of broken or dirty. The resultant fix, which is not discernible from the data, was effective as the rate decreased the following year to a pre-1974 value.

#### Condemned Components

Components condemned are those that no longer perform their intended function and are either throw aways or are not presently economical to repair. Three systems: cockpit and fuselage (12), turbo prop power plants (22), and miscellaneous utilities (4?), surfaced as the major change systems in Table E-8. Respectively, these systems increased 459% (1974 to 1975), 220% (1973 to 1974), and 114% (1973 to 1974). Further analysis of the data revealed that troop seats, cargo securing equipment, thermocouple and harnesses, and sun visors were the major contributors. Considering the previous years of operation and resultant use, these types of replacements would be expected. In all systems, the condemned value decreased significantly the following year.

#### Components Repaired Off Base

Components that are repaired off base result from one of several reasons: specifically prohibited, lack of parts or trained technicians or technical data, excess to base requirements, backlog, etc. Analysis of Table E-5, Appendix E, does show some fluctuation from one year to the next within a given system but no major anomalies. This semi-stable condition is probably the result of policy changes, revised manning, or supply fulfillment that corrects the problem.

### SAFETY DATA

C-130E aircraft safety data were obtained from the Air Force Inspection and Safety Center (AFISC/SER) Norton AFB, California. The AFISC Computerized Aircraft Accident/Incident File contains detailed accident reports including narrative descriptions back to 1962 on all USAF aircraft accidents. In addition, AFISC has other historical safety records in various configurations.

The Air Force Safety Center provided complete C-130E accident information that covered the entire 1962 through 1976 time period. The information was provided in computer listing format including the narrative descriptions. The accident data provided was analyzed and three summary tables were developed: (1) Table 7 reflects the C-13CE flight accidents and rates per 100,000 flying hours for 1962-1976; major/minor/total accidents; fatal accidents; and aircraft damage categories of destroyed/ major/minor are reflected. (2) Table 8 shows the C-130E flight accidents by type, and includes a distribution of the various types of accidents for 1962-1976. (3) Table 9 contains the C-130E flight accidents by phase and includes a distribution of the total accidents by the various phases of flight for 1962-1976.

The safety aspect of this study was limited to C-130E flight accidents and not the other areas normally associated with the term safety, such as policy, procedures, etc. During the 15 years being studied, the total C-130E accidents numbered 70 for a 2.0 per 100,000 flying hour (FH) rate. Coincidentally, this was split 50-50 between major and minor. A total of 21 aircraft were destroyed for a rate of 0.6 per 100,000 FH, 15 sustained major damage, .43 rate, and 35 with minor damage, 1.0 rate. This sum is one greater than the number of accidents as one C-130E was destroyed that was not counted as an accident, because it was the second aircraft and the principle aircraft was charged with the accident.

A distribution of the type of accidents revealed collision (all kinds) for 39 percent and landing (all kinds) 28 percent as the two major contributors. For phase of operation, landing, as would be expected, accounted for 59 percent alone.

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C-130E FLIGHT ACCIDENTS SUMMARY AND RATES PER 100,000 FLYING HOURS

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## HUMAN RESOURCES

### SCOPE OF DATA AND INFORMATION SEARCH

Data search and acquisition of historical C-130E human resource data encompassed: a) Operations and maintenance manpower profiles (officers, enlisted, and civilian personnel), b) extant USAF Air Force Specialty Code (AFSC) and skill level distribution patterns, c) distributions of assigned C-130E maintenance personnel profiles within all C-130 Military Tactical Airlift Wing work centers (e.g., Organizational, Field, and Avionics Maintenance Squadrons), d) USAF C-130E training histories, e) C-130E operational flight crew and maintenance manloading ratios per unit of equipment (UE), and f) attained formal educational profiles of Air Force officer and enlisted personnel.

Resident/technical training profiles and costs, germane to the C-130 weapon system were not acquired. Archival data contained in the Military Personnel Center (MPC), (Randolf AFB, Texas), automated repositories, were not acquired due to prohibitive data assemblage and printing costs. Further, additional data not acquired for the reason stated above included: a) Lists of total active federal military service times of C-130 officer and enlisted personnel, and b) governmental courses of record completed by AFSC category.

Attempts were made to acquire these historical data via other sources during field trips to operational Military and Tactical Airlift Wings within CONUS, viz: a) 62nd Military Airlift Wing, McChord AFB, Washington, b) 314th Tactical Airlift Wing, Little Rock AFB, Arkansas, and c) 317th Tactical Airlift Wing, Pope AFB, North Carolina.

Extensive data were acquired from the 3785th Field Training Group, USAF School of Applied Aerospace Sciences, Sheppard AFB, Texas. This included C-130A/H FTD training production reports (up to 27 months) encompassing monthly summaries of students graduated per month and numbers of training hours completed.

#### C-130E OPERATIONS AND MAINTENANCE MANPOHER

Operations and maintenance manpower data of assigned personnel were collected via field trips to: a) McChord AFB, Washington, b) Little Rock AFB, Arkansas, and c) Pope AFB, North Carolina. This included acquisition of the numbers of flight officers and enlisted personnel assigned per C-130E aircraft  $\bar{a}$ s well as numbers of officers, enlisted and civilian personnel assigned under the local Deputy Commander for Maintenance (DCM). Maintenance manpower assigned under the DCM were acquired, collated, and analyzed by work center from monthly Maintenance Digest reports (RCS-MAC-LGX-M 7103) emanating from the 314th

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Tactical Airlift Wing, Little Rock AFB, Arkansas, and the 317th Tactical Airlift Wing, Pope AFB, North Carolina. Figure 13 provides an illustrative compendium of how these Maintenance Digest reports were used in establishing assigned manpower factors per C-130E aircraft, hereafter referred to as Unit of Equipment or UE. The collection and statistical protocol utilized throughout this phase of analyses is shown in Appendix F.

Manloading constants derived from the 11 months of Little Rock and Pope AFB Maintenance Digest reports (RCS-MAC-LGX-M 7103), served as the basis for developing projected manpower profiles based upon num'ers of possessed C-130E aircraft during the years of 1962 through 1976. Projected annual maintenance manpower results for officers, enlisted (all skill levels) and civilian personnel are contained in Table 10. Personnel weight factors (constants) per UE are also reflected in this table.

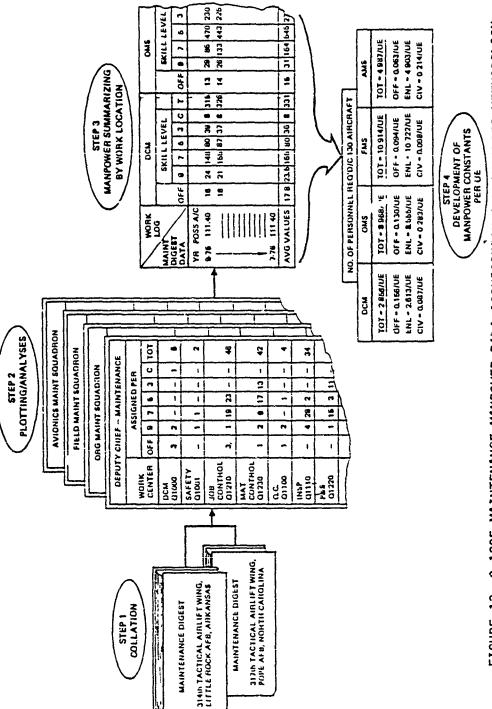
Estimated numbers of flight crews encompassing Pilots (AFSC 1055B), Co-pilots (AFSC 1053B); Navigators (AFSC 1545G), Flight Engineers (AFSC 113XOA), and Loadmasters (AFSC 114XO), were developed via actual aircraft flying hours accrued per day during the entire 15 year period (1962-1976). Operational flight crew compositions and numbers were predicated on the following:

Cor	dition	Crew Ratio/UE
1.	C-130E Flying Hour Rate per day Less than 4.0 hours/day.	2.0
2.	C-130E Flying Hour Rate per day 4.0 to 4.9 hours/day.	2.5
3.	C-130E Flying Hour Rate per day 5.0 hours plus per day.	3.0

Table 11 and Figures 14 and 15 depict operational flight crew numbers, total personnel numbers and numbers of personnel by AFSC during the 1962-1976 time period.

#### C-130. FIELD TRAINING DETACHMENT (FTD) PRODUCTIONS

Data acquired from the 3785th Field Training Group, USAF School of Applied Aerospace Sciences, Sheppard AFB, Texas provided the only Air Force training data baseline defined during this study phase. Field Training Detachment Production data (ATC Form 396A) encompassing six C-130 FTD's and three Mobile Training Teams (MTT's) were collated, analyzed, and entered into table format as depicted in Table 12.



C-130E MAINTENANCE MANPOWER DATA ACQUISITION AND ANLAYSES METHODOLOGY FIGURE 13

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C-130E ASSIGNED MAINTENANCE MANPOWER PROFILES -(LITT) F ROCK AFB. ARKANSAS AND POPE AFB. NORTH CAROLINA) TABLE 10

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TABLE 11 PREDICTED C-130E OPERATIONAL FLIGHT CREW PERSONNEL PROFILES - 1962-1976

		UTE	RATE					CREW CC	CREW COMPOSITION (BY AFSC)	BY AFSC)	
YEAR	NO. OF UE POSSESSED	HRS/ MO.	HRS/ DAY	CREW RATIO	NO. DF CREWS	TOTAL NO. OF PERSONNEL	10558	10530	1545G	11 3X0A	114 X 0
1962			6.333	3.0	33	165	33	33	33	٤٢	33
1963	83		2.766	2.0	166	830	166	166	l66	110	160
1961	226		2.833	2.0	452	2260	452	452	452	451	452
1965	315		3.066	2.0	630	3150	630	630	630	630	630
1966	295		4.200	2.5	737.5	3687	738	138	737	73/	181
1967	291		3.500	2.0	582	2910	582	582	582	582	582
1968	279	93	3.100	2.0	558	2790	558	558	558	558	55.8
1969	289	74	2.466	2.0	578	2890	578	578	578	578	578
0/61	304	67	2.233		608	3040	608	608	608	608	608
1761	323	64	2.133	2.0	646	3230	646	646	646	640	646
1972	298	61.5	61.5 2.050		596	2980	596	596	596	596	590
6761	293	54.2	54.2 1.806	2.0	586	2930	580	586	586	586	586
1974	295	48.0	48.0 1.600	2.0	590	2950	590	590	590	590	590
1975											
9/61	297	46.2	1.540	2,0'	594	29/0	594	594	594	594	594
	1		1								
	I. Crew			Z.U Crews per alrcraft:	alrcraft:		ġ		(		
	(P		UTE rate o	f less than '	4.0 hours p	of less than 4.0 hours per day per aircraft - crew ratio =	rcraft - cre	w ratio = $2.0$	0		

2. Crew ratio of 2.5 crews per aircraft:

UTE rate of no greater than 4.9 hours per day per aircraft nor less than 4.0 hours per day per aircraft a)

Crew ratio of 3.0 crews per aircraft:

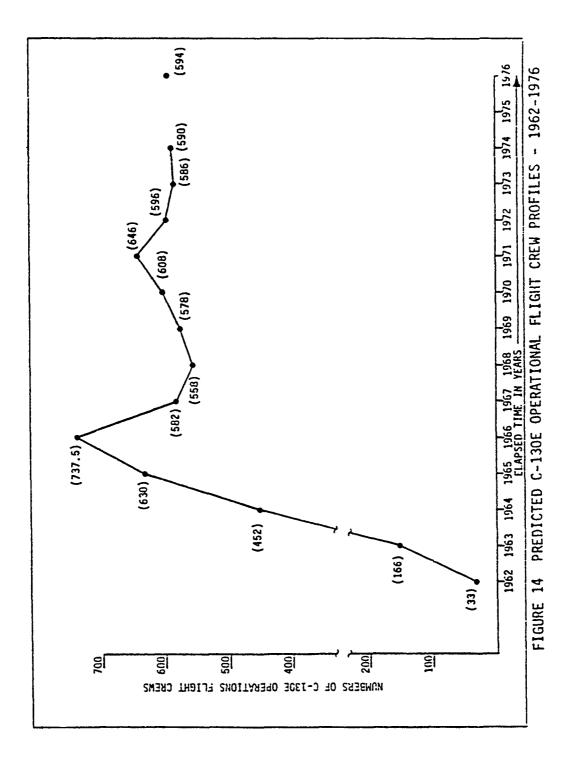
a) UTE rate of equal to or greater than 5.0 hours per day per aircraft

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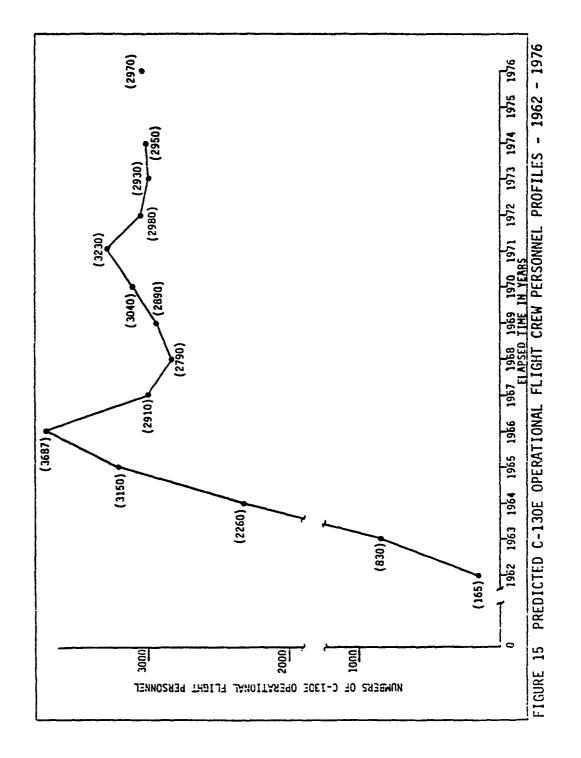
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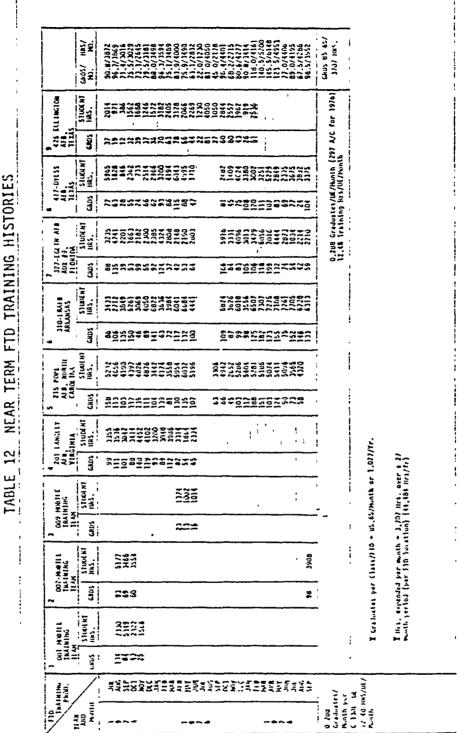


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NEAR TERM FTD TRAINING HISTORIES

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Historical data depicting numbers of graduates and total student hours per month were plotted against each of the aforementioned FTD/MTT designated areas. Mean values of numbers of airman graduates and student hours per month were established for the periods of July 1974 through September 1976. Resultants values, viz, average numbers of student graduates per month, coupled with average numbers of student hours expended per month were used to estimate FTD training profiles for the years of 1962 through 1976.

### MAINTENANCE MANPOWER RESOURCES

Discrete numbers of officer, enlisted and civilian personnel assigned to the C-130E operational weapon system were derived on a Unit Equipment (UE) basis. Table 10, depicts the numbers of officers, enlisted and civilians contained within each major work location (viz: DCM, OMS, etc.). It further illustrates the mean numbers of maintenance personnel within each major location during the period of September 1975 through July 1976. Resultant calculations show that an average of 27.72 maintenance personnel were required per possessed aircraft (merging of Little Rock and Pope AFB data). The numbers of maintenance personnel per C-130E aircraft was further defined into those proportional values of personnel required at the DCM, OMS, FMS and AMS work locations, namely: 1) DCM factor 2.856 personnel/UE; 2) OMS - 8.968 personnel/UE; 3) FMS - 10.914 personnel/UE; and 4) AMS - 4.987 personnel/UE. (Total = 27.72 personnel/UE.)

The relative participating grade-in-rank (officer, enlisted and civilian personnel) constituting each of the maintenance personnel/UE factors noted above are annotated below:

	Officer/Enlisted/Civilian Personnel Weight Factor <u>Personnel Category</u> <u>Per C-130E Aircraft</u>
0	Officer Personnel-All Work Centers 0.442 Personnel/UE
0	Enlisted Personnel
	Skill Level 9-All Work Centers 0.918 Personnel/UE
	Skill Level 7-All Work Centers 5.679 Personnel/UE
	Skill Level 5-All Work Centers 14.714 Personnel/UE
	Skill Level 3-All Work Centers 5.557 Personnel/UE
	Civilian Devenuel All Verk Contern 0 410 Devenuel/UF

o Civilian Personnel-All Work Centers ---- 0.412 Personnel/UE

Total = 27.722 Maintenance Personnel/UE

These personnel weight constants above, enabled the development of estimates of total maintenance personnel required by year (1962-1976) based upon the numbers of C-130E aircraft possessed during each of the 15 year period. Table 13 and Figure 16 provide synopses of estimated numbers of maintenance personnel required to maintain and control the C-130E weapon system. These numbers derived via this methodology then served as the basis for developing officer, enlisted and civilian pay and allowances per each of the 15 years (1962-1976). Those results are reflected in Task VI - Life Cycle Cost Analysis.

### OPERATIONS MANPOWER RESOURCES

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Manpower resource estimates/profiles of C-130E flight crews consisting of five AFSC's per crew were derived. This included: a) Pilot -AFS 1055B, b) Co-pilot - AFS 1053B, c) Navigator - AFS 1545G, d) Flight Engineer - AFSC 113XOA, and e) Loadmaster - AFSC 114XO. Refer to Table II and Figures 14 and 15 for estimated numbers of operational flight crews and concomitant numbers of officer and enlisted personnel profiles extant within the C-130E weapon system during the 1962 through 1976 time period. An average crew ratio of 2.0 per C-130E aircraft was used to determine operation crew manpower loading with the following exceptions. Crew ratios of 3.0 and 2.5 were used during the years of 1962 and 1966, respectively, as the utilization rate, i.e., flying hours per day exceeded 4.0. E-130E weapon system utilization rates previously depicted (Table 11) were derived from AFM 65-110, "Standard Aerospace Vehicle and Equipment Investory, Status, and Utilization Reporting." Back in Figures 14 and 15 are the obvious by-modal points of 1966 and 1971. The former modal point is largely due to the high C-130E utilization rate of 4.2 hours/aircraft per day at an estimated crew ratio of 2.5 per aircraft. The 1971 modal point is due solely to the large numbers of possessed C-130E aircraft during this period (namely 323) at the standard crew ratio of 2.0 per aircraft.

Analyses of these data indicate a general leveling off of flight crew Air Force Specialty Codes (AFSC's) between 1973 and 1976. The numbers of C-130 flight crews and resultant total numbers of AFSC's were reduced by approximately 8.0% (260 personnel - 52 crews) since 1971. An associated aircraft flight utilization rate per day during this same period has undergone a 27.80% reduction. The reported daily flight utilization rate of 4.2 hours/day during the 1966 time period reflects the resultant operations manpower profile buildups during 1966. A total of 444,283 C-130E flying hours were logged in 1966 with an averaged possessed level of 295 C-130E aircraft. More flying hours/UE were logged at this time than any years prior to or subsequent to this time period. TABLE 13 C-130E ESTIMATED MAINTENANCE MANPOWER PROFILES (OFFICERS ENLISTED AND CIVILIAN PERSONNEL) (1962-1976)

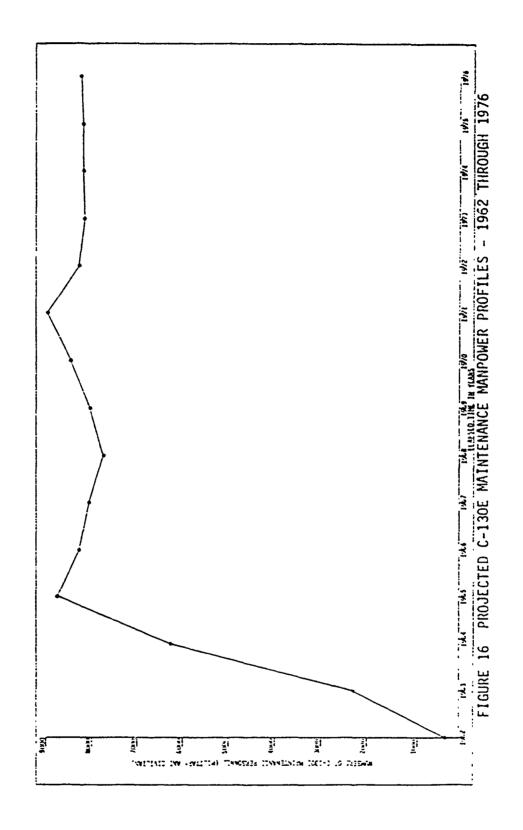
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6/01		18.44		840.076	(14.63).(	4IIC.4	1,428.001	110.716	6,11,8
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2111	NIN .			111.015	1,632.347	4.344.772	1,441,946	112.776	6,262
1011	MANNA TWANTA 111	112.77		111.002	116.148.1	1.712.622	110.14.11	NO.(1)	1,41
<b>6</b> /61	NINGAIN NA .	14.27		219.012	1.714.416	4,473.664	1,640.335	115.240	8,426
1140	MINUT AINCUT	11.14		345.262	1.141.231	4.442.346	1,404.01	111.444	110,8
<b>91</b>	And and a start	127.22		111.111	1.101.101.1	4.146.744	1.544.441	111.948	מניו
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# Training (Field Training Detachments) - C-130

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Analytical results from the FTD histories, were previously discussed (Table 12). Data acquired within the periods of July 1974 through September 1976 demonstrated that six C-130 FTS's and three Mobile Training Teams (MTT's) experienced an overall average of 85.65 enlisted graduates per month (each FTD/MTT), at an average monthly expenditure rate of 3707 trainee hours. These factors, used as parametric (constant) values, served as the statistical baseline for determining historical monthly and yearly C-130 FTD trainee and hour profiles during the 1962-1976 time period. These experience data enable definition of the following estimates:

# TABLE 14 C-130 FIELD TRAINING DETACHMENT GRADUATES/ TRAINEE HOUR ESTIMATES

ITEM/NOMENCLATURE	MONTHLY VALUES	YEARLY VALUES
1. Trainee Graduates/FTD	85.65 Trainees	1 028 Trainees
2. Trainee Hrs/FTD	3,707 Hrs.	44, <sup>1</sup> 84 Hrs.
3. CONUS FTD's Profiles		
• CONUS FTD GRD's	513.90 Trainees (FTD GRDS/Mo) X (6)	6,167 Trainees (FTD GRDS/Mo) X(6)X (12)
• CONUS FTD Trainee Hrs.	22,242 Hrs. (Trainee Hrs/FTD) X (6)	266,904 Hrs. (Trainee Hrs/FTD) X (6) X (12)
Where: 6 = No. of C-130 12 = No. of Month		

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The estimated expenditure of 266,904 FTD trainee hours (all C-130 models) is the equivalent to 142.576 man years. (1872 hrs = 1 man year.) The C-130E fleet of 297 aircraft in 1976 constitutes 45 percent of the total C-130 weapon system (models AC-130A/H through WC-130H). This proportional value (0.45) when applied to the estimated annual FTD trainee factor of 266,904 trainee hours reduces the C-130E 1976 FTD trainee value to 120,107 trainee hours expended to graduate 2,775 C-130E maintenance and support personnel at an average rate of 231 graduates/ month.

### Educational Background

Data provided to the Boeing Experience Analysis Center (EAC) by the Computational Sciences Division, Air Force Human Resources Laboratory, Air Force Systems Command (Lackland AFB, Texas), were used to establish the raw score/proportional distributions of 13 educational levels achieved by maintenance officers classified within three Air Force Specialty (AFS) categories and enlisted personnel classified under 30 AFS categories. The following summarizes the officer and enlisted AFS personnel wherein USAF world wide educational background data were acquired.

### AFSC

### NOMENCLATURE

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- Officer Personnel

1.	4016/4036/4616	Aircraft Maint. Staff Officer
2.	4024/4044	Aircraft Maint. Officer
3.	4096	Deputy Commander for Maintenance

- Enlisted Personnel

_		<b>. .</b>
1.	324X0	Precision Measuring Equipment
		Specialist/Technician
2.	325X0	Automatic Flight Control Systems Specialist/Technician
2	325X1	Avionics Instruments Systems
5.	36371	Specialist/Technician
4	32591	Auto Flight Control/Avionics
••		Instruments Systems Superintendent
5.	328X0	Avionics Communications, Systems
•••		Specialist/Technician
6.	328X1	Avionics Navigations System
•••		Specialist/Technician
7.	328X4	Avionics Inertial and Radar
		Navigation Systems Specialist/
		Technician
8.	32894	Avionics Communications-Navigation
		Systems Superintendent
9.	341X3	Trainers, Simulator, Analog Flight
10.	341X4	Trainers, Simulator, Digital Flight
11.	341X6	Digital Navigation/Tactics Training
		Devices
12.	34198	Trainers, Superintendent
13.	423X0	Aircraft Electrical Repairman/
		Technician
14.	423X1	Aircraft Environmental Systems
		Specialist/Technician
15.	423X2	Air Crew Egress Systems

- Enlisted Personnel (cont'd	)
16. 423X3	Aircraft Fuel Systems Specialist/ Technician
17. 423X4	Aircraft Pneudraulic Systems
<b>18. 423X5</b>	Aerospace Ground Equipment
19. 42395	In-Flight Refueling Systems Superintendent
<b>20. 426</b> X0	Aircraft Propeller Systems Specialist/Technician
<b>21.</b> 426X2	
21. 42012	Jet Engine Specialist/Mechanic/ Technician
22. 42692	Jet Engine Superintendent
23. 431X1F	Aircraft Maintenance Specialist/ Repairman/Technician (Turbo-Prop Aircraft)
24. 43191	Aircraft Maintenance Superintendent
<b>25.</b> 531X0	Machinist
26. 531X1	Metals Processing Specialist/ Technician
27. 531X3	Airframe Repair Specialist/ Technician
28. 531X4	Corrosion Control Specialist/ Technician
29. 531X5	Non-Destructive Inspection Specialist/Technician
30. 53195	Metal Working Superintendent

NOMENCLATURE

Education histories of the 30 enlisted AFSC personnel encompassed 11 years (June 1966 through June 1976). Educational levels achieved by three officer AFSC's encompassed the 15 year reporting period June 1962 through June 1976. (Reference Tables 15, 16, and 17.)

Educational Backgrounds - Officer Personnel

AFSC

Data contained in Tables 15 and 16 reflect the following:

- 1. 34.4% more maintenance officer personnel presently hold bachelor degrees than existed in 1962.
  - a. 1962 Bachelors' Degree = 26.229%
    b. 1976 Bachelors' Degree = 60.637%
- 2. 20.03% more maintenance officer personnel presently hold master's degree's than existed in 1962.

a. 1962 Masters' Degree = 2.247%

b. 1976 Masters' Degree = 22.278%

										_							
	AFSC's	4016. 4024. 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	4016, 4024, 40 <del>96</del>	4016, 4024, 4096	4016, 4024, 4096	.016, 4024, 4096	4016, 4024, 4096	4016, 4024, 4096	
	TOTAL PERSONNEL	6897	6683	1916	6758	6645	6792	6863	6497	2269	5122	4519	4045	3703	3578	<b>3389</b>	
	DOCTORIAL DEGREE	•	2	•	•	-	-	~	•	•	-	-	4	<b>n</b> '	-	•	
NS	MASTERS & Post Glud.	. <b>I</b>	1	:	-	-	10	9	•	•	8	~	-	-0	•	-	
DISTRIBUTIONS	MASTERS DEGREE	155	121	165	195	162	240	297	156	375	386	11	472	119	624	756	
SCORE DIS	POST GRAD. Nork	65	83	117	211	109	125	214	691	6/1	a	170	184	166	221	267	
RAW	BACH. DEGREE	609 L	2075	2721	2930	3247	2013	4095	4022	3975	3599	3087	2711	2494	2328	2055	
HNEL -	ASSOC. DEGREE													7	•	~	
RSO	4 • • • COL •	;				<b>9</b>	9	89	8	55	ĨĒ	27	25	8	21	12	
R PE	3 YR COL.	604	564	572	483	<b>t</b> 03	344	279	237	170	118	101	11	3	53	\$	
OFFICER PERSONNEL	2 YR COL.	160L	995	949	818	705	618	629	474	366	245	223	184	113	109	8	
1	1 YR COL.	745	638	163	580	512	446	307	315	265	182	167	146	116	17	13	
TABLE 15	H.S. GRAD MITH LESS 1 YK COL.	:	:	;	:	:	;	;	53	12	27	13	20	Ŧ	H	1ŧ	dlage year.
	H.S. GRAD.	2383	2176	6161	1594	1355	1102	946	104	659	349	284	211	156	111	2	lating 4th c
	HON-II.S. GRAD.	45	29	21	19	22	~	-	-	-	2	-	;	;	:	:	d after comp
	ACARENIC AFPONT LEVELS PERILOD	June - 1962	Junu - 1963	June - 1964	June - 1965	June - 1966	June - 1967	June - 1968	Juna - 1969	June - 1:170	June - 1971	June - 11/2	June - 12/3	June - 1974	June - 1975	June - 1976	• Nu degreu achieved after completing 4th cellege year.

นี้ (2) ค.ศ.ศ. คราชหรับเหมือน จะจะระบบนายสามสามสามสามสาม (15) สามสามสามสามสามสามสามสามสาม (2) (2) (2) (2) <u>2 2 2 2 2 2 2 2 2 2</u>

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TABLE 16 PROPORTIONAL DISTRIBUTIONS	16 PROPORTIONAL	1.1	1.1	TRIBUT		<u>ا</u>	- USAF	F OFFICER	CER PER	PERSONNEL ET	DUCA FTC	EDUCA "TCM BACKGROUNDS	Sanu		
RI PORT LIVEL	NON N.S. GRAD.	II.S. GRAD.	H.S. GRAD. WITH LESS 1 YR COL.	1 YR COL.	2 YR COL.	<u>ج</u>		ASSOC. DEGREE	BACH. DEGREE	POST GRAD. WORK	MSTLL. DEGREE	MASTERS & Post Grad.	DOCTORIAL DEGREE	TOTAL PROP.	POPUL ITION SIZE
JUNE - 1962	.00652	134551	1	.10802	. 15905	.08757			.26229	i6100.	.02247	0 0 1 2 5	.boose	1001	6897
June - 1963	16 HOD.	.32645		19560.	.14889 .	- 66,980.			6MOLE.	.01018	.02050		06000.	1001	6683
June - 1964	£00293	.26798		21880.	.13252 .	- 07988			76676.	.02472	\$05304		.00084	1001	1917
June - 1965	.00281	.23587	*****	28580.	. 12104	- 1110.	!		.43356	.01953	.02885	\$1000;	.00089	1001	6758
Juna - 1966	16000.	16E02.		.07780	.10609 .	.06065	.00752		.48864	.01640	92960.	.10045	.00045	1001	6645
Juna - 1967	.0004	.16225		.06567	· 650'60'	.05065	.00883		18293.	01840.	.03534	111C0.	.00015	1001	6792
June - 1968	\$1000.	elaci.		.05639	.07854	.04065	.01297	1	.59668	81160.	.04328	.(0146	.00029	1001	6963
June - 1969	51000.	.12067	<b>,00354</b>	.03155	. 786.5.	.03648	1247	1	\$0619.	60620°	11120.	66100).	.00062	1001	26197
June - 1970	.00017	09160.	53E0U.	76550.	.05129	. 02847	12600		.66561	.02897	.06279	0010).	00100.	1001	2269
June - 1971	60000.	.06814	.00527	ESSED.	.04783	.02304	.00605		.70266	\$13E0.	.07536	6000).	.00020	1001	× 5122
June - 1972	.00022	.06285	86500.	96960.	. 25610.	. 02235 .	. 00597		.68312	.03762	26950.	1100.	.00022	1605	4519
June - 1973		.05216	15100"	03609	.04549	. 10610.	81300.		.67021	.04796	.11669	.00025	.00099	1001	4045
June - 1974	:	61210.	.00513	EE1ED.	. 233E0.	.01566 .	01800.	\$5000.	.67351	.04483	13800	5ELDO.	19000	1001	£0/£
June - 1975	!	03270	16200"	.03270	.03046	. 18910.	.00587	01100	.65064	.06177	.17440	,60224	.00028	X001	3578
June - 1976		.02479	15300.	50510.	.02538	. 13510.	.00354	.00207	.60637	.07878	.22278	. 6110).	11100.	1001	9389
. 1011-002			1				  •				-	1	<b>\</b>		
(tenula)	-	•		-	-	•	•		•		•				
									r.						
								•							
* No degree achieved after complating 4th collage year.	eved after co	xplating 4ti	h college year	•					4.						<u></u>

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- 3. Educational levels achieved by maintenance officer personnel as of 1976 have dramatically increased when compared to June 1962.
- Significantly fewer high school graduates hold officer commissions in the USAF than was the case throughout the 1960's and early 1970's.
- 5. USAF policy changes and/or extant practices clearly demonstrate a dramatic shift toward college matriculated personnel as resources for future maintenance officer positions.

Table 16 provides a compendium of reported data acquired between the periods of 1962 through 1976. This table provides a more comprehensive summary of educational trends as reported in proportional values. Frrows (  $\succ$   $\checkmark$  ) contained in Table 16 (bottom page) reflect the general 15 year educational trends apparent within data provided by the Computational Sciences Division, Air Force Human Resources Laboratory, Air Force Systems Command. The nature/types of degrees earned by these officer personnel are not known.

In summary, definite increases in achieved academic levels have occurred between 1962 and 1976. However, caution must be taken when correlating increased academic levels of achievement with skills. Further, dichotomous entries reflecting achieved academic levels can not be used to reflect improvements in abilities to communicate, calculate, analyze, etc. as the explicit natures of educational training were not known.

### Educational Backgrounds - Enlisted Personnel

Enlisted personnel educational histories protrayed in Table 17 enable formulation of the following possible assumptions:

- Selective enlistment of AF cadres has reduced the numbers of non-high school graduates that are accepted into the USAF.
- 2. Proportional numbers of high school graduates accepted into the USAF in 1976 is comparable to that observed in 1965.
- 3. Proportionately larger numbers of enlisted personnel are receiving some undergraduate training (1976) than were reported in 1966. (1 through 4 years of college training.)
- 4. Proportionately more enlisted personnel are matriculating with bachelor degrees than in previous years.

NOTE: The type/nature of degrees is not known.

Calendar School States

GRM05         W/LESS         V/RS         3 YRS.         4 NGK         GRM0         DEGMER           -         -         -         -         -         -         -         -         5.31           5.311         B3.174         -         3,725         1,695         385         385         196         -         13           4,324         91.760         -         5,190         2,234         627         452         -         452         1         4         -         531           3,177         92.755         -         5,190         2,234         627         452         -         452         11         12           3,170         92,515         657         4,268         2,306         578         804         -         699         23         11         12           2,324         79,515         657         4,268         2,306         578         804         -         699         23         11         12           2,324         71,337         891         3,291         2,012         495         865         -         779         28         3         3           2,491         61,692         1,	EQUCATION	NON H.S.H	H.S. GRADS	H.S. GRADS	OND	UNDER GRAD.	. EDUCATION	NOI	ASSOC. DEGREE	BACH. DEGREE	POST	MASTERS	MSTERS B POST	MASTERS ASTERS DOCTOR- DEGREE POST IAL	TOTALS
5.311       6.31.7       -       -       -       -       5       5         5.311       83.174       -       5,255       2,366       589       282       -       282       7       7       -       11         3.177       92.555       -       5,366       536       589       282       -       595       28       6       1       12         2.180       87.582       202       4,939       2,566       659       683       -       595       28       6       1       12         2.940       71,137       891       3,621       2,163       514       909       -       779       23       28       3       3         2.940       71,137       891       3,621       2,163       514       909       -       779       23       28       3       3       3         2.9407       61,692       1,918       2,722       1,618       397       665       -       779       28       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3	REPORT- ING PERIOD			W/LESS 1 COL.Y	I YR.		YRS.				MORK		or AD	DEGREE	
5,311       83,174       -       3,725       1,605       365       536       653       653       653       653       653       452       2       282       7       7       7       -       11         2,850       87,86       530       536       536       538       804       -       693       23       14       2       11       12         2,340       71,337       891       3,621       2,163       514       909       -       772       13       2       11       12         2,340       61,692       1,166       3,291       2,012       495       854       -       772       19       30       -<	June - 1965	•	•	8	1	1	1	1	1	1	,	,	1	,	ı
4,324       91,760       -       5,255       2,366       569       282       -       282       7       7       -       11         3,177       92,~55       -       5,190       2,234       627       452       16       8       -       13         2,860       87,582       202       4,939       2,506       659       683       -       699       23       .14       2       11         2,324       79,515       657       4,268       2,306       578       804       -       699       23       .14       2       11         2,330       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,491       67,494       1,166       3,291       2,012       495       855       -       772       19       30       -       -       -       -       -       -       -       -       -       -       -       13       17       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	June - 1966	5.311	83,174	•	3,725	1,695	385	<b>96</b> t	t	196	-	*	1	53	94,740
3,117       92, "55       -       5,190       2,234       627       452       -       452       16       8       -       13         2,950       87,582       202       4,939       2,506       659       683       -       555       28       6       1       12         2,324       79,515       657       4,268       2,306       578       804       -       699       23       .14       2       11         2,340       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,340       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,497       61,692       1,196       2,752       1,613       356       516       27       31       17       - <td>June - 1967</td> <td>4.324</td> <td>91.760</td> <td></td> <td>5,255</td> <td>2,386</td> <td>589</td> <td>282</td> <td>1</td> <td>282</td> <td>~</td> <td>~</td> <td>1</td> <td>11</td> <td>104,903</td>	June - 1967	4.324	91.760		5,255	2,386	589	282	1	282	~	~	1	11	104,903
2,650       87,582       202       4,939       2,506       659       683       -       595       28       6       1       12         2,324       79,515       657       4,268       2,306       578       804       -       699       23       .14       2       11         2,340       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,340       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,497       61,692       1,198       2,752       1,678       397       665       -       531       13       17       - <t< td=""><td>June - 1968</td><td>3.177</td><td>9255</td><td></td><td>5,190</td><td>2,234</td><td>627</td><td>452</td><td>•</td><td>452</td><td>16</td><td>80</td><td>•</td><td>13</td><td>104,524</td></t<>	June - 1968	3.177	9255		5,190	2,234	627	452	•	452	16	80	•	13	104,524
2.324       79.515       657       4,268       2,306       578       804       -       699       23       .14       2       11         2.340       71.337       891       3.621       2.163       514       909       -       779       23       28       3       3         2.491       67.494       1.166       3.291       2.012       495       855       -       712       19       30       -       -       -         2.491       67.494       1.166       3.291       2.012       495       855       -       712       19       30       -	June - 1969	2,850	87,582		4,939	2,506	659	683	•	595	28	Q		12	100,063 (99,975)*
2,340       71,337       891       3,621       2,163       514       909       -       779       23       28       3       3         2,491       67,494       1,166       3,291       2,012       495       855       -       712       19       30       -       -       -         2,491       61,692       1,198       2,752       1,678       397       665       -       531       13       17       -       -       -         2,490       61,692       1,198       2,752       1,611       356       516       27       391       15       19       1       -	June - 1970	2,324	79,515		4,268	2,306	578	804	1	669	23	¥ľ.	2		91,204 (91,099)*
2,491       67,494       1,166       3,291       2,012       495       855       -       712       19       30       -       -       -         2,487       61,692       1,198       2,752       1,678       397       665       -       531       13       17       -       -       -         1,490       58,123       1,377       2,592       1,461       356       516       27       391       15       19       1       -<	June - 1971	2,340	71,337		3,621	2,163	514	606	1	6//	23	28	m	m	82,611 (82,481)
2.407       61.632       1.198       2.752       1.678       397       665       -       531       13       17       -       -       -         1.490       58.123       1.377       2.592       1.461       356       516       27       391       15       19       1       - <td< td=""><td>June - 1972</td><td>2,491</td><td>67.494</td><td>1,166</td><td>3,291</td><td>2,012</td><td>495</td><td>855</td><td>1</td><td>712</td><td>19</td><td>30</td><td>•</td><td>ı</td><td>78,565</td></td<>	June - 1972	2,491	67.494	1,166	3,291	2,012	495	855	1	712	19	30	•	ı	78,565
1.490       58.123       1.377       2.592       1.461       356       516       27       391       15       19       1       -         1.205       54.984       2.042       2.668       1.449       391       546       52       428       14       22       -       -         908       50.932       1.684       3.036       1.551       394       552       184       457       34       22       7       6         M15TID PERSONNEL       (1966-1976)       - 59.672       104,524       01fference       01fference       01fference       01fference       01fference       01ference       01ference       01ference       01ference       01ference       01fference       01ference       01ffference       01ference       01ference	June - 1973	2,487	61,692	1,198	2,752	1,678	397	665	1	163	13	17	1	I	71,430 (71,296)*
1,205       54,984       2,042       2,668       1,449       391       546       52       428       14       22       -       -         908       50,932       1,684       3,036       1,551       394       552       184       457       34       22       7       6         908       50,932       1,684       3,036       1,551       394       552       184       457       34       22       7       6         ML1STLD PERSONNEL       1966-1976       59,672       104,524       116ference       between number of personnal that completed or store of those receiving bersonnel minus (-) difference       6       7       6       7       6       7       7       6       7       6       7       6       7       7       6       7       7       6	June - 1974	1,490	58,123	1,377	2,592	1,461	356	516	27	168	15	19	-	1	66,368 (66,243)*
908     50,932     1,684     3,036     1,551     394     552     184     457     34     22     7     6       1     1     1     1     1     1     1     6       1     1     1     1     552     184     457     34     22     7     6       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1     1       <	June - 1975	1,205	54,984		2,668	1,449	166	546	52	428	14	22	1	ı	63, 201 (63, 683)
AMGES OF FMLISTLD PERSONNEL (1966-1976) - 59.672 - 104.524 *Values in parenthesis denote total enlisted personnel minus (-) difference between number of personnal that completed 4 vars of collone and those receiving bechelors degrees.	June - 1976	908	50,932		3,036	1,551	394	552	184	457	34	22	~	Q	59,767 (59,672)*
AMGES OF FNLISTED PERSONNEL (1966-1976) - 59,672 - 104,524 *Values in parenthesis denote total enlisted personnel minus (-) difference between number of personnal that completed 4 vars of colline and those received bachelors degrees.															
AMGES OF FNLISTED PERSONNEL (1966-1976) - 59,672 - 104,524 *Values in parenthesis denote total entisted personnel minus (-) difference between number of personnel that completed * vars of colline and those receiving bachelors degrees.															
RANGES OF FNLISTED PERSONNEL (1966-1976) - 59,672 - 104,524 *Values in parenthesis denote total enlisted personnel minus (-) difference between number of personnel that completed 4 verse of college and these receiving bechelors degrees.															
	RANGES OF ENLIST *Values in pare 4 vears of coll	ED PERSO Inthesis	NNEL (19) denote to those re	66-1976) 5tal enl.	- 59,672 sted per hachelor	sonnel 1	524 minus (- es.	) diffe	rence bi	etween n	umber o	f person	nel tha	t comple	ted

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TABLE 17 EDUCATIONAL LEVELS - ENLISTED PERSONNEL (33 AFSC'S)

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Although data show that achieved educational levels of enlisted personnel are on the increase, analysts are unable to make a concomitant conclusion that abilities to communicate, problem solve, read, analyze, and correct have also increased.

### MATERIAL RESOURCES DATA

Material resource consumption is an extremely large contributor to the life cycle costs of USAF weapon systems. Data collected and analyzed as part of this study identify the types of material resources utilization data available for review and study on the C-130E aircraft.

### Information Search

A thorough search for material resource consumption data was conducted. This included visits to various Air Force headquarters, Air Logistic Centers, and bases assigned C-130E aircraft; a review of all published literature such as documents, descriptive studies and reports that could be obtained; and a screening of Air Force data collection Systems. Historical data searched covered C-130E actual or validated material resources utilization for the period of 1962 through 1976. During the search and screening for usable data and/or statistics, it became abundantly clear that little C-130E identified material resource consumption data were available and desired information would be difficult to obtain. It was also discovered that the Air Force did not have a system that, for the years of this study, provided C-130E total base level and depot level material resources expenditures. The data that were available appeared in cost format thus compounding the requirement that cost structures, categories, elements and accounts be thoroughly understood and identified. Identity to the C-130E weapon system, ensuring total cost/expenditure involvement and providing a basis for historical analysis of consumption of C-130E related material resources are major problems. Therefore, only fragments of data were available from Air Force Management Systems that could be used. Comments and discussions are made on each of these categories in subsequent paragraphs.

### USAF Operating and Support Cost Reporting (OSCR) System

Table 18 provides a thorough breakdown of the \$123M expended for material resources during FY-1975. Both base and depot level expenditures of supplies, contractual, and other costs are shown. Of the \$640 per FH indicated, \$442 per FH (includes \$300 for POL) was expended at base level and \$197 per FH was required for depot level operations. The three greatest expenditure areas within the depot level operations were AFLC Depot Maintenance Accessory Costs (\$82 per FH), airframe costs to include PDM (\$42 per FH) and the depot operations recurring investment costs (\$41 per FH). Since this is a relatively new system this type of data is only available for FY 75 and later. (Refer to Appendix "G" for detail discussion of the OSCR system.) the second s

	-					_	-		_		_		_			_	_	_		_	-	_	_			
	J V	COST (\$) PER FH		315.98	64.95	61.60	442.52			42.32	8.56	81.61	12.57	0.005	0.11	145.17		-	41.12	6.79	2.39	2.45	52.74	197.92		640.44
	TOTA	FY75 TOTAL COST (\$)		60,871,953	12,512,427	11,866,171	05,250,551			8,152,008	1,649,230	15,722,211	2,421,140	116	21.944	27,967,444			7,921,192	11, 307, 602	460,165	471,449	10,160,408	38,127,952		123,378,403
(9)	ER	COST (\$) PER FH			,	16.88	16,80			17.12	5.05	33.21	5.15	0.00	1	60.54			41.12	0.80	2.39	2.45	46.76	107.30		124.18
(LESS PERSONNEL AND TRAINING	0THER	FY75 TOTAL COST (\$)		1	ı	3,252,450	3,252,450			3,298,727	972,205	6, 398, 446	118,292	602	، ۱	11,662,791			7,921,192	154,801	460,165	471,449	9,007,607	20,670,398		23,922,840
NEL AND	ACT	COST (\$) PER FII		•	•	15.35	15,35			24.03	1	7.48	0.66	•	0.11	32.28				4.22	8	•	4.22	36.50		51.85
PERSON	CONTRACT	FY75 T0TAL COST (\$)		•	ı	2,956,841	2,956,841			4.629.656	1	1.440.054	126,991	1	21,944	6,210,645			ı	612,840	ł	ı	812,840	7,031,485		9,988,326
(LESS PERSONNEL A	TES	COST (\$) PER FH		315.98	64.95	29.36	410.29			1.16	3.51	40.92	6.76	0.002	1	52.35			•	1.76	ı	ı	1.76	54.12		464.41
HABLE 10 C-	SUPPLYES	FY75 T0TAL COST (\$)		60,671,953	12,512,427	5,656,880	79,041,260			223,625	677,025	117,603,711	1,301,338	309	1	10,006,008			۱ -	1 339,961	•	ŧ	339,961	10,425,969		89,467,229
INDL			BASE LEVEL OPERATIONS	FLYING OPERATIONS	HEAPON SYS. MAINT.	DASE LLVEL DOS	IGTAL BASE LEVEL	DEPOT LEVEL OPERALIONS	AFIC DEPOT MAINI.	ALHERARIE (INCL. PDH)	LINGTHI S	A551 550R11 5	FLECT. & COIM.	ARHANT NT	T4S CHUNDO	TOTAL AFLC		DI POT OPI RATIONS	KLCUMRING INVEST.	AI C UUS	ALC DIRECTORIES	SECOND BEST TRANS.	TOTAL, DPT OPS	TOTAL DPT I EVEL	TOTAL BASE LEVEL AND	11 ESS PI 18 & 1 Hun 1

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C-130E FY75 OPERATING AND SUPPORT COSTS TABLE 18

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# USAF Standard Base Level Maintenance Cost System (MCS)

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The Executive Management Summary Report as outlined in AFM 177-380 and as described in Appendix "H" provides a current month and cumulative to date capsule of labor, material and other miscellaneous cost data by various cost categories for organizational and intermediate maintenance levels. During the search for material resources data, the 317th TAW's Pope Air Force Base Executive Management Summary Reports for July 1975 through December 1976 were obtained. Throughout the period covered by the above reports, the C-130E was the prime aircraft assigned at Pope Air Force Base. Therefore, it is assumed that the data reflects C-130E utilization.

Table 19, reflects data extracted from portions of the material section of the reports. The table shows a monthly comparison of: a) Material costs both direct and indirect, and b) total dollar value of material consumed broken down by WBS. By using the monthly flying hours, the material cost and dollar value of material consumed per flying hour for each month can also be compared. Readjustments were made to purge data not belonging in the various reports of the system and to adjust the costs within the WBS (Work Breakdown Structure) for MDS (Mission, Design, Series) as well as Non MDS. This is reflected in the Oct., Nov. and Dec. 1976 cost figures of Table 19.

The comparative cost data contained in Table 19, provide the basis for factors used in developing a comparison of estimated yearly material costs and consumption values from 1962 through 1976 for base level. By using data contained in the Oct. through Dec. 1976 reports, factors per flying hour were developed and applied to the number of flying hours each year. This in turn provided an estimated yearly comparison of material costs and dollar values broken down by WBS for base level C-130E material costs. Using these same elements and type costs the C-130E Material Costs and Material Consumption By WBS (1962 through 1976) are displayed in Table 20. No attempt was made at this time to deflate the 1976 cost figures used. The average yearly material costs amounted to \$93M with the years 1965 through 1968 accounting for considerably more than the average. The dollar value of material consumed by WBS averaged \$77M yearly of which \$71M was MDS costs. The dollar value of material consumed by WBS does not include any contractor maintenance costs.

It is planned that in the future the maintenance cost system as described in AFM 177-380 will be interfaced with the operating and support cost reporting (OSCR) system to provide this type of data after FY-1977.

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> AFM 177-380, USAF Standard Base Level Maintenance Cost System, 20 July 1976.

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TABLE 19 C-130E MATERIAL CONSUMPTION AND COSTS - 317th TAW POPE AFB

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MAN-HUS TOTAL	411,152	1.05.694	61)(2('9	7,995,069	10.236.201	0.446,672	7,16,422	1.191	6,640,225	6,690,794	5.0%,(1)	1.74.61	S(	3,926,094	10.10.1	6.901.74
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TABLE 20 C-13UE MATERIAL COSTS AND MATERIAL CONSUMPTION BY MAS (1962-7*137*6) ()

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### Depot Maintenance Material Resource Costs

One of the most difficult problems in trying to capture and compare material resource consumption and/or data at depot level is the lack of identity to a specific weapon system. Possibly the most accurate or complete data are prepared by Headquarters AFLC/ACRL in accordance with AFR 173-4 13 (RCS: HAF-ACM(A) 7109). However, due to the cost accounting system used at depot maintenance level, not all costs are collected by weapon system. Some are allocated to a weapon system using cost and quantity averaging methods. Thus, the actual costs indicated are not always true in nature.

Depot maintenance data generated for the C-130E aircraft and identified in Boeing's AMST Cost Effectiveness Analysis (LCC) 🔊 study was used as a basis in developing data shown in Table 21. This table shows costs of material consumed, in FY75 constant dollars, for five categories from 1969 to 1975. Using the C-130E possessed aircraft, flying hours for each year, and the ratio of labor to material contained in the RCS: HAF-ACM(A)7109 Report, the yearly dollar value, cost per aircraft and cost per flying hour for material consumed for each category by year is reflected. The dollar figures within the table include all direct and indirect expense material but do not contain non XD (Expendable Depot) items bought under replacement spares funding. Further, the Depot Maintenance Production Cost System, G072A, which provides the dollar data, is a system employed at the stock class material management aggregate code level. Therefore, the above table does provide good comparative information but does not represent the actual depot maintenance material resource costs for the C-130E aircraft.

When analyzing the data contained in Table 21, it appears that during the Southeast Asia conflict (1969-1972 time period), depot maintenance material costs were higher per aircraft than in years after the conflict. However, possibly due to less flying hours per year or deferred maintenance, the cost per flying hour increased\_after the conflict (1972-1976) even though total dollars spent per aircraft decreased. Further, the dollars spent for material at depot level for aircraft repair and engine overhaul were higher during the conflict and cost of materials for all types of accessory repair were highest after the Southeast Asia commitments. 

### USAF Cost and Planning Factors

As a result of not being able to obtain actual and/or validated material resource consumption data that could be plott d and compared through the study period time frame, it was necessary to use the factors

13 AFR 173-4, USAF Aircraft and Missile Depot Maintenance Cost Factors, October 1972.

1969	1970	1261	2/61	1973	1974	1975	7 YEAR AVERAGE
ł	NOE.	323	298	293	295	296	17.992
	245,153	246,979	220,070	190,734	169,867	170,360	214,076.57
~	317,817.73	6,166,401.52	5,168,866.00	3,996,347.57	3,721,755.72	2,256,735.25	4,754,415.49
	24,071.77	E0.100,21	17,345.19	13,639.41	12,616.12	7.624.11	15,863.16
	29.85	24.97	23.49	20.95	16.15	13.25	12.21
~	081,245.24	7,616,002.56	5,613,860.01	2,857,562.54	2,714,615.80	1.957,641.79	4,965,591.30
	23,293.57	23,578.96	18,838.46	9,752.77	9,202.09	6,547.30	16,517.75
	28.89	30.84	25.51	14.98	15.98	11.49	;'3.20
З,Я	3,414,523.83	3,215,166.23	3,071,452.72	4,264,481.03	3,520,585.18	3,056,571.53	3,478,436.85
	12,547.78	9,954.08	10,306.89	14,554.54	11,934.19	10,326.26	11,605.84
	15.56	13.02	13.96	22.36	20.73	17.94	16.25
4,6	4,609,148.22	4,856,559.99	6,997,358.45	6,099,807.37	3,516,174.72	3,402,623.72	5,034,673.56
-	15,161.67	15,035.79	23,481.07	20,818.46	11,919.24	11.495.35	16,738.24
	18.80	19.66	31.80	31.98	20.70	19.91	23.52
2,6	2,673,850.39	3,062,094.05	2,651,486.89	3,606,137.99	4,010,357.20	3,852,999.17	3,210,712.66
	8,795.56	9,480.17	8,897.61	12,307.64	13,594.43	13,016.89	10,712.58
	10.01	12.40	12.05	18.91	23.61	22.62	15.00
23,356,578.60 25,4	196,585.41	24,916,224.35	23,503,024.07	20,824,336.50	17,483,488.62	14,526,571.46	21,443,829.86
	83,870.35	10.011,77	78,869.21	71,072.82	59,266.06	49,076.25	71,548.59
	104.00	100.88	106.80	109.18	102.92	85.27	100.17

TABLE 21 C-130E DEPOT-MAINTENANCE MATERIAL RESOURCE COSTS

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and formulas from AFR 173-10, USAF Cost and Planning Factors. Applying the flying hours, number of aircraft, and the utilization rates for each of the years 1962 through 1976, Table 22 was developed. The table provides comparative information and identifies the total estimated costs for each year and the cost per flying hour for GSE, POL, Maintenance (Base and Depct Level), Modifications (Class IV), Replenishment Spares and Vehicle Equipment Costs. Factors and formulas from AFR 173-10 followed the Cost Analysis Cost Estimating (CACE) model. The only exception to using the aforementioned factors and formulas for computing the various costs indicated within the table was the POL expenditures for 1975 and 1976. Data from the Operating and Support Cost (OSCR) Report for FY75 were used for developing the gallons per hour and cost per hour figures for 1975. The cost figures for 1976 were based on the gallons of fuel consumed per hour and cost of that fuel consumed per flight hour using actual 1976 comsumption data for Pope AFB, Little Rock AFB and McChord AFB as reflected in Table 23. Fiscal year 1976 dollar values were used. No attempt to deflate the figures into then year dollars were made.

TABLE 22 C-130E RECURRING , JMFS/HERT AND MISCELLANEOUS LOGISTIC COST BREADOM

	1962	1963	1961	1965	1966	1967	1968	6951	2AT	1/61	2/61	5/5T	19/4	:/61	13/10
AGE COSTS (2)															
ALMAN COMON SPT (SL) COST	651,65	478 H27	1,001,041	1.017.235	1,701,855	211.070.117	159'609'1	1,667,241	1,753,776	1.41, 20	51,011.	116,043.1.	1210101	1720/ 631	W.(1/.)
SAMES COST	2,442	20,046		045,41	1000,15	70.422	612,13	176.69	1995.02	78,166	22,116	20,900	11,300	22.2.11.	11.01
CUMMAN ALL (INCL. SPANIST NIM. COSTS	121.99	116.664	-	12	892.000.1	102,045,1	1.677.069	1.737.175	-	-	-1	1.761.223	1.77.245	422,011,1	1.78.44
	3.62	10.9	2			17.1	5.40	9.90	7.45				10.44	10.44	10 65
(i) sister (i)				•										1	
TULL [Jrd] CONSUMPTION, GUICHS	14.750.000	101 000, 585, 58	200, 145	272,401,204,048,762,155	118.762.155	207,760,065	201, 101, 200 225, 200, 111	200,447,805	192.445,105			149,726,190	202,306,661	1/19 071	110,605,710
זוונו (זאו) נמאמושידונה, בעולה	785	191	1	78:		50) 1	102		785		200		76-		197.
1011 (1P41) 1614 (051	111,200	201.100 11.000 111.126	66.776.	100,245,312	101, 100, 051	100,026, 201	201.643.465	101,500,41		_	009 1 9	65, 122,		21,104,919	1062-200
Putt ( JP4) COSI/IN	189	209		5R2	4P2	682	289	264	269	_	289		269	90 (9)	292.06
	77.260	102.011	115.	501.162	644.230	, IC3	419 768	370.291	355,472	38.		276,561	22	~	2.19 6.07
00 (01/10 )	1.45			1.15	1.45				1.45	•					1 42
11:10 / 4 (a515	1. 150. 160	1, 140. 400 23, 034, 401 47	11.9.011.04			104.481.584	112.040.04	A 173.0Hd	71,204,689	21.235	_	55, 398, 630	19.317.670	1.35.14	46, 61, 56
ATALINAMI ATACRAFT COSTS (2) -											_				
A 1 P VE (MERINE GALT) COST	1.116.270	5.125.416 14	012.262.24	1021.132.15	1.454.460	22.202.926	19.201.00.61	15.911.16	15.163.792	345.919.968	11,635,284	11.015.104	10.515.040	10.510 752	127, 802, 01
TIOU THE MALLENA MET CAT	3, 544, 662	81 at 11, 11, 11, 110, 114, 1		12,109,170	36.066.250	11.606.122		36. 344 OKK	\$5.546.27.		111 002		11,543,04	11,691	341.142.51
AL C. L'INI (MATINIAL 104.1)	12 03				62 23	10 29	\$1.26	10.13	19 19	-	_		12 02	(0, 3	1.0
(1 (* ** 1) (WILENA (WIL)	138.651	211 16	~	201 80	22 161	1007		230.65	226.56		ļ		36.	-	
HALLS I LEADER THE COSTAN	120 54	276.46		16 692	16.852	11 237	21.9 101	19. 262	285 19	B6.162	295 62				
STATISTICATION, CLASS IN [INCL INITIAL SPARIS	۔ ت	:							:		r		1		•
11 11 (m.)	10.00.007	0.0 0.21.1.1.1	26.619.45	12.412.412.4	1.010.026.0	101.101.0	1.164.411.4	3.170, 122.6	4.071.201.4	1.325.256.1	1.148.001,6	1 108.150.1	1.350.025.6	W1 135.C	3 925.576.6
COS1/14	1.81	119.01	01.11	12.16	1 87				19 91	12 11		20 57	22 (2		24 17
(2) SISON STATE IN WASHINGTON				:		•		 !	;			•	:	•	
10141 (051	016.162.1	11 14.41.4	17.058.410	1012 102 22	036.000.00	27.132.440	31.0.010.02	847.046.81	18.086.784	447.444.81	11.274.376	14.101.57	12.5/4.060	12.616 204	12.184.603
C051/1M	74 04	24.25	73.62	11.11	67.11	10.17	74.20	4.11					20 14		
sinicit (quitment costs (2)	•		t							:	!	:			•
101.4 (051 · · · · ·	20.09	151.154.121	12 0 0 25	61.544.30	100.004	81.691.64	AL 161 M	11.010.628	11 M W	100.101.16	N1.03.25	14 101 202	616 M1 86	540 151 00	542.455.95
(0)1/110 · · · · · · · · · · · · · · · · · ·	1.0			_	18.1	1.15	1911	8.	1.1.					•	8.7
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<b>CONSUMPTION</b>
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TABLE

FLYING					GALLONS CONSIMED	ONSUMED		UN	GALLONS PER	- 1	COST(1), PER.
PIJPE HCCHORD	0X0		TOTAL	LTTTLE ROCK	34C4	HCCHORD	TOTAL	Ξ	1000 FH		1000 FH
1,461.8 5/0 5.		ŝ	5,094.8	2,493.672	2,493.672 1,359,004	423,463	4,275,139 725.2 725,239	725.2	725,239		
1,496.8 565 6,		è.	6,574.8	2,730,673	2 , 730 , 673 2 , 269 , 807	429,631	5.430,311 825.9 825,927	825.9	825,927		
2,4AB.3 664 8.		8	8,084.3	2,964,401	2,964,401 2,031,048	500,113	5,495,562 679.8 679,782	679.8	679,782		
1,210.7 6/1 6/1 6/1	-	9	6,677.7	3, 334, 227	3, 334, 227 1, 513, 769	911,064	5.287,115 291.8 791,756	8.161	791,756		
1,745.6 503 6,6		6,6	6,694.6	2,586,964	2,586,964 3,572,465	305,823	6,545,252 894.7 894.661	194.7	199,661		
2,392.9 594 7.3		ני,	9.316.7	2,628,215 2,285,330	2,285,330	411,059	5, 324, 604 727.8 727,815	127.8	727,815		
1,75.3.5 560 6.0		6,9	6,009.5	3,259,246	3.259.246 1,331,194	303,266	4,973,700 /30.4 730.406	/30.4	130,406		
1.846.6 545 6.931.6		6,93	1.6	2.550.393 2.600.261	2,600,261	390,544	5,549,190 B00.6 B00,565	800.6	800,565		
1,932.2 554 6.6		9'0	6,626.2	2,354.055	2,354.055 2,303,209	323,516	4,980,780 751.7 751.679	751.7	751,679		
1,764.1 026 6.3		6,3	6,367.1	3,265,648	3.265.648 2.831.588	335,533	6.432.769 1010 3 1010 313	E DLUI	1010,313		
1,575.4 517 6.5		<b>6</b> ,5	6.525.4	2,550,974	2,550,974 2,463,558	264.011	5,279,343 009.0 009.045	0.600	009,045		
1,96.3.7 464 5.5		5.5	5,937.7	2,596,413	2,596,413 1,391 969 202,102	202,102	4,270,564 719.2 719,228	119.2	119,228		
22.171.6 7.131 80.4		80.4	34.ô	180,572,661	25,952,202	4,559,260	00.434.6 13.322.001 25952.207 4559.260 63.844.343 791.7 75	191.1		292.00	742 292.00 292.081
										.3684/GAL.	3684/GAL. BULK FUEL COST)

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# COST DATA

A thorough search for USAF C-130E aircraft acquisition, and operations and support (O&S) cost data was conducted covering the 15 years (1962-1976) of this study. During the data search, it became very clear that actual historical cost data have not been collected and maintained over the life cycle history of Air Force weapon systems. There is no single data source that collects and maintains historical cost data. However, there are some data systems and repositories that can provide various pieces of the types of cost data that were sought for this study program. These data repositories/systems/files are discussed in the following paragraphs of this section.

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### ACQUISITION COST DATA

Table 24, reflects the Research, Development, Test and Evaluation, Aircraft Procurement, and other procurement categories of costs information collected duing this study, including the sources.

<u>RDT&E Cost</u> - Research, Development, Test, and Evaluation costs for the C-130E aircraft was non-existent within the applicable data repositories searched. The only C-130 RDT&E documented cost information available was located in T.O. 00-25-30 I including revisions back through the 1972 issue. T.O. 00-25-30 reflects prorated R&D costs for the C-130A, B, and D models only. The T.O. does not contain any R&D costs against the C-130E in the specific or prorated areas, and it is stated in the T.O. that: "Certain older systems may not include R&D costs due to non-availability of information." In addition, most of the C-130 RDT&E expenditures were completed early in the C-130 development program, which was prior to the 1962 time period of this study. Subsequently the R&D unit cost per aircraft of \$5600 reflected in Table 24 is the prorated R&D costs for C-130A, B, and D models.

<u>Aircraft Procurement Cost</u> - Procurement Costs for the C-130E as shown in Table 24 were obtained from two different spurces: 1) ASD cost histories maintained at ASD/CSEH/HO, Wright-Patterson Air Force Base contained some documented procurement costs on the C-130E aircraft for the early initial production years (1961 through 1964), and 2) aircraft procurement costs for later years (1968, 1969, 1970, and 1972) production aircraft were obtained from T.O. 00-25-30 using applicable revisions for each specific year. The number of production aircraft by year shown in Table 24 was determined by assuming the aircraft serial number to be the production year, and all air craft with 1961 through 1964 serial numbers were reflected in the 1962 through 1965 time period because the first USAF C-130E possessed

14 T.O. 00-25-30, Unit Costs of Aircraft, Guided Missiles, and Engines.

							DOLLARS 10	IN MILLIONS							•	
	1962	1961	1961	1965	1966	1961	1966	6961	0/6T	1/61	2261	1973	1974	376t	9/61	AVG.
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		1 1203 624/W	ISTORICS (NO	W/ASA COST MISTORIES (NOTE: 1961 THEN 1964 PROCHEMENTS NEW: PICKER MP	IN THE MOU	NUN SUUDI	Picks w		Shee for sher hered							
	õ	2	T.B. 09-25-26 AM 167151005	510M5												
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	•		CLASS V IDA	FICATIONS												

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TABLE 24 USAF C-130E AIRCRAFT RDT&E AND PROCUREMENT COSTS

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inventory aircraft was in 1962 and first flight of the C-130E was in April of 1962. The follow-on production aircraft were reflected in the actual year of the aircraft serial numbers. The C-130E average unit cost per aircraft over the 15 year time period (8 years of production aircraft) reflected \$2.0 million and is broken down in the detail available as follows:

energy and a second and a second and a second and a second and a second and a second and a second and a second

Average Unit Cost per Aircraft	1962-1972 <u>\$ In Millions</u>
Airframe Propulsion Other Systems	1.31 .48 .21
TOTAL AIRCRAFT	\$2.0

### Other Procurement Cost

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The ASD cost histories contained some C-130E peculiar support equipment and training devices costs as reflected in Table 24 for the 1962 through 1964 time period. In addition, the only other C-130E procurement cost that could be located was the class V modification costs as putlined in T.O. 00-25-30 starting with the 1972 issue as shown in Table 24.

### C-130 Aircraft Contract Costs

Frost and Sullivan Inc. maintain a "Defense Market Measures System" that tracks and summarizes (to the extent possible) the Department of Defense marketing system. C-130 contracts cost data were requested from the Frost and Sullivan system for the 1962 through 1976 time period. Information provided covered the Defense Market Measures System C-130 (all models) aircraft contracts captured during the January 1962-December 1975 time period. Over 1,500 contracts were listed in the computer printcut provided. The following information was included recorded date, record contractor, awarding agency, contract dollars, phase/project, Frost and Sullivan product categories, and a very brief description of the contract. Specific C-130E contracts could not be separated, as most of the contracts showed a product of C-130 only. In some cases the brief description would specify various models but this was the exception rather than the rule. Table 25 contains a summary of 1,450 contracts extracted that could be identified against USAF C-130 aircraft. These 1,450 contracts covered the 1962 through 1975 time period and accounted for \$1,889,417,000 expended against the various contract categories. The information was against the total C-130 (all series) aircraft and the costs could not be applied to the C-130E model only. However, it does show the variety of procurements and illustrates the difficulty in tracking these costs for a specific model, such as the C-130E, within a basic aircraft MDS.

I PRODUCT	
SYSTEP	
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DOLLARS	
CONTRACT	2-1975
TABLE 25 SUMMARY OF C-130 (ALL SERIES) AIRCRÀFT CONTRACT DOLLARS BY SYSTEM PRODUCT	<b>CATEGORIES 1962-1975</b>
SERIES)	CATE
CALL	
C-130	
5	
SUMMARY	
22	
TABLE	

CATEGORY MACINI VICE	CATEGORY RESCIENTION	C-130 H- <b>0-5</b>	VEARS	ND. OF CONTRACTS	\$ IN VICE	PERCENT OF COMB TOTAL	ACTION AND A DECIMALIST
T	AINCART 107A	C-136	62-75	1,247	1.796.694	<b>55.20</b>	
AC 1120	ATTACK ATACUAT	AC-120	22-12		162 .	.02	MITHD FIT KITS/MEE SPAKES/MIA
K 1 M	ACCOMMANDER SUBME ILLANCE AND ASH	C-13	5-2	••	148	10-	SPARES
K 100		C-18	62-75	982	1,452,026	76.85	ACTT PROP, ALE PROP/SPARES, 655
							MOD/SPAKES, POKER MANT, PROB. FLT. TEST.
Ì							FATIGUE TEST. PECALIAR SPARES, MEM.EN.
Ì							SPARES, IRAN, MODS, PON, ETC.
K 160	SICK/VTOR. AIRCOMFT	C-120	11-11	8	4,929	. 26 .	LONG LEAD TIME EFFORT FOR C-130K A/C AM
							SPARES FOR C-130 A/C.
	AINCAAFT TESTING	C-130	11-29	9	14.704	87.	TEST SETS/TEST STANDS PADD, PADP TESTING.
							DATA. SPARES. AGE
X 116	MSPECIFIED AINCOUST PARTS	C-120	62-64		M	- 28	STAL CALLS
AC 2200	AINCAUT MORLLEAS	C-18	62-75	11	194,41	11	PERCENTING STATE PARTS/KITS. WPATE
							T. O. 's. OVERHALE, HODS. IEST EQUIPMENT
T							PADD
K 200	AIMCAAFT SET/TUMBIN ENGINES	C-130	62-75	я	126.095	- 13	LINE PRODUCING CONC. LING. SPARE PARIS/KIIS.
							H005/KI115
AC 2006	AINCRAFT FLIGHT CONTAGE SYSTEMS	C-130	62-74	8	17.296	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	COMPOSENT PROD. MOD EI15. IECH MANUALS.
							SPARES, REPAIRS, DEVELOPMENT
804	AIRCRAFT INSTRUCTION SYSTEMS	C-130	62-75	11	6,852	Я.	SPANES/KITS, AGE, DATA, SYS DEV/PRID
AC 5000	AIMCANFT TAAINING AND SIMLA AITON SYSTEMS	C-1X	62-76	2	1227	¥.	FLT. SIMM ATORS/TRAINLES PROG. SPARES, DATA.
							RAIVDATA CHUNCES, MOUS/EIIS
AC 6000	VIRCENT CADING NANDLING AND SERVICES SYSTEMS	C-130	62-74	•	12,740	3	CANGO HANDE ING EQUIP FRID, SPARES, MODS/KITS
	AIRCRAFT MEEL/TIME AND REAK! SYSTEMS	Q(1-)	62-75	181	106,66	2.11	IN VELOPHENT _ PRODUCTION . TESTS, ENG. SUPPORT
1							REPLEM SPARES
AC 7208	AIACAAFT FUCL SYSTEMS	C-1X	62-75	*	15,094	8	SPARCS, MOD'S/KITS
1	LACAAFT PERSONNEL EQUIPMENT	C-1X0	61-75	22	6.027	27	SPARES. HDD"S/KITS
W 248	AIACINAFT FIRE CONTROL SYSTEM	C-120	12-69	11	166.9	<i>(</i> £.	REVILOPMENT. TESTS, REMEN SPARLS, REPAIR
1							kins
AC 7500	AIR DAOP DULIYEAY YYSTEN	91-5	65-75	21	17.240	<b>.</b>	SPARES, MODS, TESTS
1	ALINCIANT MISC. SUBSYSTEMS	81.5	62-75	<b>18</b> )	\$2.750	2	SPARES, MODS/KITS, TESTS, OVERHAUL
K 9100	AIRBORNE INTEGRATED AVIONICS SYSTEMS	C-130	69-71	1	1.975		DI SIGN, DEVELOP. INTEGNATE
					1		

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TABLE 25 SUMMARY OF C-130 (ALL SERIES) ALRCRAFT CONTRACT DOLLARS BY SYSTEM PRODUCT	
R B	-
DOLLA	CONT'D
CONTRACT	52-1975 (
AIRCRAFT	CATEGORIES 1962-1975 (CONT'D)
SERIES)	CATE
CALL	
: <b>C-130</b>	
/ 0F	;
SIMMARY	
TARIE 25	

			VE 405	3.8	0001 #1 \$	PENCENT OF	WDMIC2
CATEGON CATEGON	CATEGORY DESCRIPTION	5		CONTANCIS			
				2	9.272	Ş	
9		5.18	11-13	•	(2)	<b>8</b> .	SPACE
CB 1600	INTERCOMMICATIONS SYSTEMS		80		1497	\$	SPARES, NOD/X175
CD 4100	APCONT MOID TIMISCITTING STRIKES	1	11-11	-	69	.01	SAMES
CO 4110	ATHNAME CUT AND COMINY STRICKS			-	26	•	SAMES
C0 4120	ATTRACTINE COMMUND AND CONTROL STSTERS			-	103	6.	SAAES
C0 15 X0	ALDIO/RADAR/ANTENNA AND RADONES SYSTEMS	3			74.0	8	COMPES. TESTS, MOD/KITS
	CATA PRINCESSING: GENERAL PURPOSE AND	6-130	64-75	•	ł	\$	
	THASCOFTATER ANN DE MO BIGITAL COMULERS					-	
Ī				1	40,687	2.15	
2	(If CLEMATIC INVENTION INTO A CLEAR	81.5	41-25	^	71C.0	ŧ	SPARES, TEST, NOD/KITS
0000 F3	ELECTRONIC WARANE STSTEPS MEMORY			-	31	10.	1(515
EV 1000	WPPING SUNY ILLANCE AND RECONTAINANCE STRICT		1	-	~		SAMES
[W 1100	AIRDONG OFTICAL CANERA RECORMAISSANCE STRICH			.		×	TESTS, SPARES, NOD
EN 1200	AIRAORDE INFRARED RECONUMISSANCE & NUPPING STA	21-2			5	10	FABRICATION
0051 NJ	AIRBORNE INFI IGUT PROCESSING AND DATA LINK SYS	NOC1-JW	*				COARTS. DESIGN, DEVELOP, FADRICATE, MOD
1200	AIAADAME MIDTOCRAMILC LILUMINATION SYSTEM	Q-1 Q	11-75				CALLER WAY CANNON FRITE
	AACOUNT OF CORMAND AND AND AND AND AND AND AND AND AND	97-3	61-75	-	1.20/		SLAKES, FULL , MARINE , WALL -
	The statue and becalling SYSTEMS	116-1301	99	-	685	8	STARS
		-138	59	1	213	10.	N00
0001 A1	LUMINATION STATE TOTAL			-	1.298	-02 -	
¥		A01-20	22	-	1.206	90.	
02CT SH	COMMU MUMMLE STRICTOR CASTEMA	1001-3	3	~	26	10'	TELENETRY DATA SUBSYSTEM
#\$ 1551				3	15,323	1.47	
ş	MATING THE PURCH	<u>c-18</u>	63-64	-	4.072	-22	SPARES, MOD/KITS
M 1210	LUNU VISIAMLE MULIO MAY AND ANY TA CANTER CONTRACTOR	x-18	3	-	165	10	PROC-DIRECTIONAL FINDING SYS
2	LIGHT DISTANCE ATTANDAGE BARAR WAY SYSTEM	c-130	61-70	9	164.5	:	SPARES
110	Transar listeric rinears	la I	63-67	~	209	10.	PROC-RADIO RECEIVERS/DATA
M 146	All DUME INSTRUCT IN TAINING TO AND T	C1:30	2.2	~	2,656	1	PROC-RADIO EQUIPMENT/SPARES
212 M	ALEGOOR PARTY STATUS AND TOTAL & AND TOTAL & AND DANCE	C-120	61.15	61	136,3	α.	PROC-RADAR EQUIPMENT/SPARES, MG
M 2220							
		61.0	1.11	•	11.199	*.	PROC-MAY/NEAPON DELIVERY EQUIP. SPAKES.
N 2260							NOO, AGE
		91-3	11-23		1,63	5	SPARES
N 200		91.5	~	-	≂		STANES

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# SUMMARY OF C-130 (ALL SERIES) AIRCRAFT CONTRACT DOLLARS BY SYSTEM PRODUCT CATEGORIES 1962-1975 (CONT'D) TABLE 25

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SHWDU	A.C.	PROC-RI SCINDULE FOULP. HODS., SPARSS	ENG. SERVICES - TESTS	ANALYSIS, DATA, PRINTING NAMUALS	PROC-SHULL ABKS, SPARES AGE															
PERCENT OF GRAMD TOTAL	8	51.	,03	20.	ct.	103.00														
111 1000	0(11	2.771	621	358	395,5	11.000.17														
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CATGORY LESCRIPTION	NAVICATION TEST SYSTEMS	STATION REEPING FORMATION CONTROL SYSTEMS	AASIC RESEARCH	UMSPECIFIED TECHNICH & PROFESSIONAL SERVICES		CAPTURED C-130 CONTRACTED DOLLARS														
CATEGORY	M 6100	NA 9100	7	35	\$	dina.														

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# OPERATIONS AND SUPPORT COSTS DATA

The following subparagraphs discuss the C-130E operations and support cost information that was available and obtained during this study effort. Information that was included in the human resources data and material resources data paragraphs above has not been reiterated in this paragraph.

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The Operating and Support Cost Reporting (OSCR) system, as described in Appendix "G", provided the FY-1975 operating and support total costs, cost per flying hour and percentage of total costs. Table 26 identifies the above costs by personnel, training and TDY costs versus supplies, contract and other (minus training and other personnel support) costs. Further identified is the impact of base level versus depot level costs. Of the \$348M expended in FY75 for base and depot level operating and support costs for the C-130E, \$225M or \$1,170 per flying hour was personnel related costs. Thus, 65% of the expenditures were for human resources type items and 35% were expended for material resources. Of the \$123M or \$640 per flying hour expended for material resource costs, \$47M or \$300 per flying hour was for POL. Thus, personnel and POL were by far the greatest contributors to FY75 C-130E Operating and Support (0&S) costs.

ELEMENTS	FY75 TOTAL COST (\$)	FY75 COSTS (S) PER FH	PERCENT
PERSONNEL, TRAINING & TOY COSTS			
BASE LEVEL OPS	210,487,435	1,092.61	60.34
DEPOT LEVEL OPS	14,982,789	77,77	4.20
SUB-TOTAL	225,470,224	1,170.38	64.63
SUPPLY, CONTRACT & OTHER COSTS			
BASE LEVEL OPS	85,250,551	442.52 <sup>.</sup>	24.44
DEPOT LEVEL OPS	38,127,852	197.92	<u>10.93</u>
SUB-TOTAL	123, 378, 403	640.44	35.37
TOTAL BASE & DEPOT LEVEL SUPPORT & SPERATICUS COSTS	348,848,527	1,810.82	100.00

TABLE 26 C-130E FY75 OPERATING AND SUPPORT COST RECAP

SOURCE: OSCR, FY75, DTD 3 AUG. 1976

NOTE: 1 INCL. PCL COST OF \$57,794,100

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When comparing the impact of costs associated with personnel versus material, each level should be reviewed separately and then compared with each other. Table 27, Base Level O&S Costs, identifies the costs for personnel, training and TDY versus the material resources costs. Of the \$295M or \$1,535 per FH spent at the base level, 71% was for human resources and 29% for material resources. However, when comparing the same information for the depot level costs, Table 28, the data reflects that of the \$53M or \$276 per FH spent, 72% was for material resources and 28% for human resource elements. When analyzing both tables and data contained within, it is easy to see that the greatest expenditures for operating and support costs for the C-130E are incurred at base level for human resources.

TABLE 27	FY75 BASE	LEVEL	OPERATING	AND	SUPPORT	COSTS	- C - 130E
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ELEMENTS	FY75 BASE LEVEL COST (\$)	FY75 BL COST (\$) PER FH	PERCENT
PERSONNEL, TRAINING & TDY COSTS	210,487,435	1,092.61	71.17
SUPPLIES, CONTRACT AND OTHER	85,250,551	442.52	28.83
TOTAL BASE LEVEL OPERATIONS COST	295,737,986	1,535.13	100.00

NOTE: 1 INCL. POL COST OF \$57,794,100 OR 19,54% OF TOTAL BASE LEVEL OPS COST.

TABLE 28 FY75 DEPOT LEVEL OPERATING AND SUPPORT COSTS - C-130E

FY75 SPT LEVEL COST (\$)	FY75 SPT LEVEL COST (\$) PER FH	PERCENT
14,982,789	77.77	28.21
38,127,852	197.92	71.79
53,110,541	275.69	<u>100.CO</u>
	COST (\$) 14,982,789 38,127,852	COST (\$)         COST (\$)         PER FH           14,982,789         77.77           38,127,852         197.92

# Depot Maintenance Repair Action Costs

The C-130E depot maintenance repair action costs/FH by system for repair cycle assets are shown in Table 29. The information was summarized at the system level and reflects costs per flying hour of C-130E items processed through depot maintenance (excluding engines and complete airframes) during FY 1975-1976. (Refer to, Section III "Data Analysis, Area III - Depot Data," for the detailed description of the depot data sources and computer processing utilized to obtain depot repair action costs in the study program.)

575.		FY 1975 AND FY 1976		
NQ.	SYSTEM NAME	COST/FH (IN S)	SYSTEM 2 OF TOTAL	
n	AIRFRAME	3.36	3.64	
12	COCKPIT AND FUSELAGE	1.21	1.09	
IJ	LANDING GEAR	5.64	5.09	
14	FLIGHT CONTROLS	2.84	2.57	
22	TURED PROP POWER PLANT	-	-	
24	AUXILLARY POWER PLANT	7.45	6.73	
R	HYDRAULIC PROPELLER	15.91	14.37	
41	AIR CONDITIONING, PRESSURIZATION	6.73	5.75	
42	ELECTRICAL POWER SUPPLY	2.03	1.83	
44	LIGHTING SYSTEM	-	-	
45	NYDRAULIC AND PHELMATIC	3.63	3.28	
46	FUEL	4.06	3.67	
47	OXYGEN	1.64	1.50	
49	NISCELLAREGUS UTILITIES	0.46	0.43	
51	INSTRUMENTS	1.98	1.79	
52	AUTOPILOT	4.67	4.22	
55	MALFUNCTION AVAL. & RECORDING EQUIP.	i -	-	
61	HF COMMUNICATIONS	1.35	1.25	
a	WHE COMMUNICATIONS	0.18	0.15	
0	UNF COMMUNICATIONS	1.58	1.70	
4	INTERPHONE	0.27	0.24	
6	IFF	0.68	0.61	
	ENERGENCY COMMUNICATIONS	0.89	0.80	
6	HISC. COMMUNICATIONS	- 1	•	
n	RADIO NAVIGATION	3.99	3.60	
72	RAGAR NAVIGATION	20.83	12.61	
91	EMERGENCY EQUIPMENT	· -		
56	PERSONNEL EQUIPMENT	-	-	
97	EXPLOSIVE DEVICES		•	
	MISC.	18.97	17.13	
1	TOTAL	110.72		

# TABLE 29 C-130E DEPOT MAINTENANCE REPAIR ACTION COSTS/FH BY SYSTEM (ITEM PROCESSED THRU DEPOT MAINTENANCE EXCLUDING ENGINES)

NOTE: NISC. INCLUDES ITENS FROM ALL SYSTEMS WHERE NO MATCH COULD BE MADE BETWEEN XSN/40C

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### SUMMARY

This data analysis task was two**fold in accomplishment:** a) it accumulated the effort from the prior tasks; and b) set the stage for the following two tasks; Historical Task Analysis - V and Life Cycle Cost Analysis -VI.

Extensive analytical results contained in this data analysis section provides comprehensive quanticative spectra encompassing 15 years (1962-1976) of real time data. This includes historical data for seven basic categories:  $\mathbf{a}$ ) operations,  $\mathbf{b}$ ) maintainance,  $\mathbf{c}$ ) reliability, d) safety, e) human resources, f) material resources, and g) cost. This study, included the acquisition, analyses, and development of quantitative data on the C-130E weapon system during three reasonably distinct eras, namely; a) Pre-Southeast Asian involvement. b) Southeast Asian involvement, and c) post war period. Subsequent to the Gulf of Tonkin Incident (August 1964), a rapid build-up in Southeast Asia occurred. This included the airlifting of men and materials into the theater of operations (main operating bases - MOB) beginning in November 1964, that included the assignment of C-130 aircraft to various MOB's for forward logistical support purposes. The massive historical data acquired and analyzed covering the three eras were indexed into the seven data categories as described above and are presented and decribed in detail in this section.

A data matrix (Table 1) was developed to categorize the acquired 6.1 million records and over 900 documents/reports into seven major divisions and elements. The source, quality, quantity, and significant remarks for each data element are displayed. This matrix will enable future analysis to rapidly assess data availability and sources for application to any study or need.

Large scale computers, remote terminal on-line operations, and applicable software were utilized to effectively and efficiently manipulate the data into listings, summations, and easily readable formats, thus, enabling a more thorough, comprehensive review by the analysts.

In general, excellent weapon system data in the operational category was obtained and presented for the 15 year history. The maintenance reliability and safety data categories are well documented. Scarcity of complete historical data are noted in the human resources, material resources, and cost data categories. This data spectra provides the only existent resources utilization history of the C-130E weapon system for a fifteen year period. It establishes a much needed baseline for this type of weapon system historical data and is a necessary key to also establishing the life cycle cost. It provides a plan of action for future research efforts and establishes the type and guantity of information that can be expected to be obtained from available sources on other weapon systems. for 2 states the states that a first that a states when a successful of a state of the the states of t

### IV. GENERAL DISCUSSION

The following paragraphs attempt to bring into focus statistical summaries and trends that may be detected from the massive amount of information collected and analyzed within the major categories.

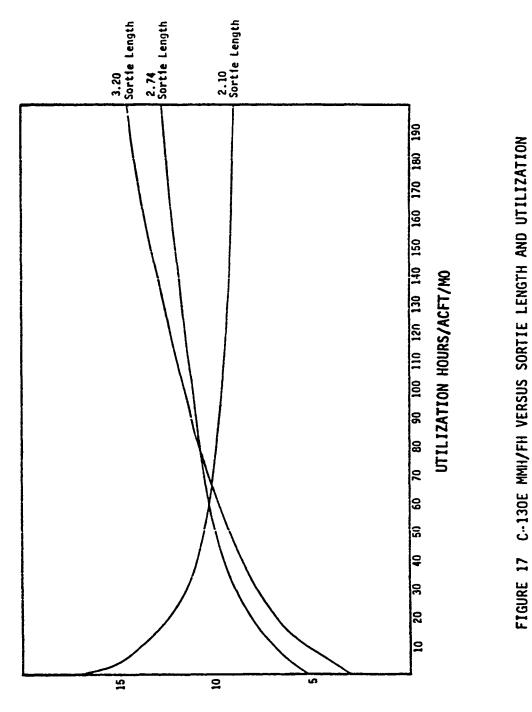
## **OPERATIONS**

A total of 403 C-130E aircraft had been procured by the Air Force with 41 no longer in service. Of these procured aircraft, the average 15 year possessed aircraft count equaled 260. These in-turn flew, during the 15 years, 3,463,317 hours for an average utilization of 75.2 hours per month per aircraft. A 2.63 flight hour average mission length resulted and the aircraft had an average of 1 landing (full stop or touch and go) per flight hour. The operational ready percent was 69.9 with a not operational ready supply and maintenance of 4.0 and 26.1, respectively. Figure 17, derived from the curvilinear regression formula,  $\log \lambda = a + b \log x$ , illustrates the relationship between varying sortie lengths to utilization and system maintenance manhours per flight hour.

The average utilization rate, i.e., flight hours per C-130E aircraft per month increased dramatically between the period of 1963 and 1966 with a general decline in utilization occurring subsequent to 1966 to a current level in 1976 of 46.2 flying hours per month per aircraft. Figure 18, depicts several key operations trends extant within the 1962-1976 period.

Apparent within Figure 18 is the steady downward trend of operationally ready (OR) aircraft. Etiologies of this trend were not discretely quantified. The general downward trend of C-130 flying hours subsequent to 1967 is due largely to the introduction of the Lockhead C-141 Starlifter which was used to supplement the C-130E. Fatique/aircraft structural problems encountered in Southeast Asia, particularly the model B and E involving center wing cracking resulted in the need to lower the operational use of the C-130 weapon system.

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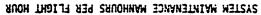


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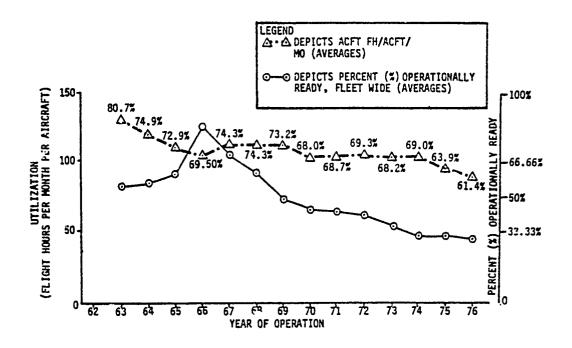


FIGURE 18 C-130E UTILIZATION AND PERCENT OPERATIONAL READY VS YEAR OF OPERATION.

# MAINTENANCE

Analysis of the statistical maintenance data showed an average 15 year maintenance manhour per flight hour (MMH/FH) of 21.98 broken into support general 10.10 organizational 7.80, intermediate 2.86, and TCTO 1.22 (depot 1.12 and base .10). Table 30 presents a breakout of the maintenance manhours by aircraft system along with troubleshooting MMH/FH, 6.82 and maintenance tasks, 34.22/FH. Of the twenty-nine systems in the aircraft, 6 (turboprop power plant, airframe, fuel, hydraulic propeller, radar navigations, and landing gear) accounted for 59.31 percent of the total systems maintenance manhours. Figure 19 presents a manhour percentage distribution for the systems.

Organizational and intermediate system troubleshooting maintenance manhours accounted for 6.39 percent of the systems maintenance. Three systems, fuel, turboprop power plant, air conditioning, and pressurization accounted for slightly over 41 percent of the troubleshooting TABLE 30 C-130E MAINTENANCE - RELIABILITY STATISTICAL SUMMARY (ALL VALUES ARE 15 YEAR (1962-1976) AVERAGES PER 1000 FLIGHT HOURS)

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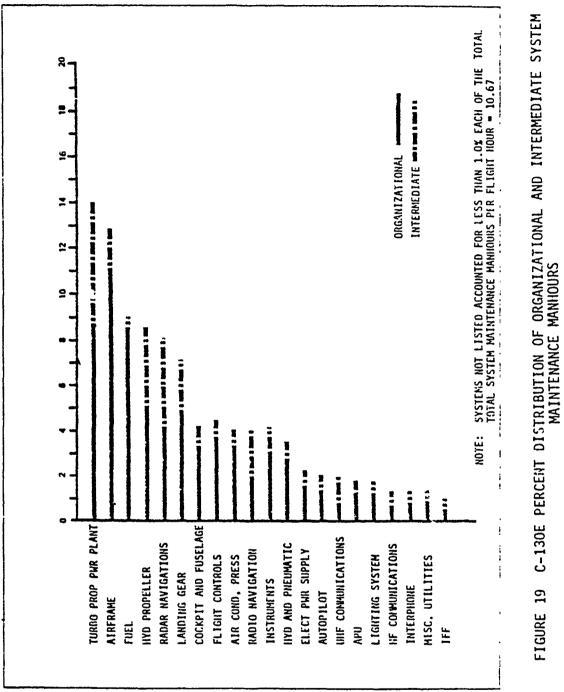
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<u>svs</u>		ORG. A	DAG. B	230111050	ORG.	ORG. TROUBLE-		ABORTS	COMPTS REPAIR-	
õ	SYSTEM NAME	TASKS	HAINT.	LALUNCO	REMOVALS	INHI INHI	GROUND	<b>FLIGHT</b>	ED OFF	DEMIED
=	ALBERUE	362.6	1357.0	330.02	1 35.4	10.2	80.	91.	0.83	0.88
12	COCKPIT AND FUSELAGE	248.8	470.3	134.89	32.7	3.8	.12	:03	0.48	2.31
1=	LANDING GEAR	236.1	735.7	127.65	43.9	29.9	86.	.53	29.68	3.66
1=	FL LOUT CONTROLS	136.4	468.4	99.14	13.0	15.9	.24	8.	2.65	0.28
12	TURBO PROP POWER PLANT	519.5	1406.5	245,33	87.5	83.9	2.00	1.24	27.75	5.53
12	AUXIL LARY POWER PLANT	57.2	194.7	21.57	8.4	51.0	.10	10.	2.40	0.18
18	ILYDRAIM IC PROFILLER	218.7	913.1	87.92	46.9	23.4	1.15	1.09	3.96	0.4)
I=	AIR CONDITIONING, PRESSURIZATION	124.7	414.5	67.1B	24.9	70.3	.28	35.	11.67	1.73
≆	LI ECTRICAL PONER SUPPLY	64.3	241.0	30.97	15.7	26.4	.26	.28	2.50	5
:3	LIGHTING SYSTEM	103.2	172.5	102.79	17.3	6.11	.02	10.	0.14	
3	INDEAD IC AND PALIERATIC	120.4	335.6	17.26	16.1	1.1	.23	.29	7.14	0 66
13	fut.	195.4	9,959.6	63.81	.5,5	127.0	-19	2.	5.11	0.24
: 7	OXYGEN	30.0	72.1	11.94	6.1	9.6	.06	60.	3 67	0.11
6	MSC. UTICHLS	43.6	125.7	23.42	5.9	16.4	11.	- 22	1 7.	1 :0
5		124.1	376.5	70.40	5 ; 6	53.7	:1:	=	31 12	6.12
: ?;	AutoPit 61	80.8	232.9	35.86	-16.7	15.2	.12	2.	8.62	0 0
: 3	PARTING TIGHT ANAL A ACCORDING FOULD.	.0.3	.: .:	0.05	1.0	000	•		G.02	00
: 5	1	26.9	154.4	17.68	6.2	7.0	00	10.	0.42	¢.15
:3	VIE COVVIDCATIONS	15.4	55.5	8,58	3.6	2.4	.02	E0.	0.16	0.04
	UNE COURDORS AN I COURS	(:09	211.4	30.34	( <del>)</del> 1	5.5	.02	.02	1.07	0.53
5	INTERCIÓNE	58.2	112.9	38.96	- 16.6	6.5	.02		0.24	13 0
3		6:00	110.5	15.12	6.9	(.)	.04	ð.	0.96	0.35
10	CHI RCENCY CONSULTCATIONS	7.56	11.7	6.31	B.2		0.	.02	0.80	0.12
3	HISC. CONVENTIONS	10.2	12.5	18.90	1:7	0.2	°.	•	0.06	0.12
=	RADIO NAVIGATION		410.1	66.75	45.7	29.5	°.	.02	3.82	0.70
12	KADAR HAVIGALION	270.5	8/3.4	115.94	-61.9	60.6	.0.	60	9.79	16.0
16	I NURGENCY FOULT MIN	2:62	78.6	12.3E	153	0.0	0.	0.	.u.0	0.32
:3	PLASONIEL EQUIPMENT	5:0	1.2	90:00	0.0	0.0	0.	0	0.0	0.0
:3	EXPLOSIVE DEVICES	- 2:2	2.6		<u> </u>	0.0	0.	10.	0.0	0.0
1										
!										
	10TAI S	3.11.6	10667.2	11.1.1	635.0	681.9	5.69	5.27	10.00	21.12

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manhours indicating difficulty in isolating causes of malfunctions in these systems. Figure 20 presents a troubleshooting manhour percentage distribution for the systems.

A percent distribution of organizational and intermediate tasks is shown in Figure 21. Organizational tasks accounted for slightly more than 82 percent of the 342.6 tasks per 1000 flight hours. Two systems, turboprop power plant and airframe were responsible for over 25 percent of the total. Organizational removal tasks, illustrated in Figure 22, accounted for slightly more than 18 percent of these total tasks.

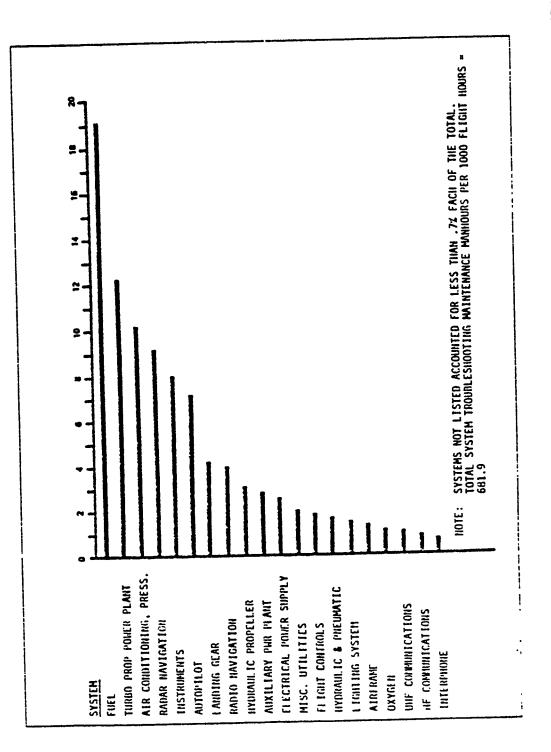
Also, C-130E maintenance trends encompassing the 1962-1976 time period were established. The top 10 (by rank order assigned) component manhour consumer encompassing 18 work unit codes (WUC's) were established for the period of 1971-1976. Table 31 provides a rank order synopsis of each of the top ten contenders. Generally, these top ten manhour consumers ranked in 1971 continued to be major consumers of manhours throughout 1972 through 1976. The rank order positions of those top ten manhour consumers/component in 1971 show the customary departures during 1972-1976. However, at least 6 of the 1971 top ten components continue to remain as top ten manhour consumers during 1972 through 1976.

Figure 23 reflects the organizational removal tasks and depicts the 1962 through 1976 trend. A line of estimated "best fit" has been plotted for visual display purposes. It is apparent that there has been and most probably will continue to be, a general increase in the number of organizational removal tasks per 1000 flight hour as the weapon system continues to age. The majority of these removal tasks involve engine assembly, propeller assembly, fuel tanks fuel indicator and control subsystems.

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Figure 24 depicts a composite of Organizational, Field and Avionics Maintenance Squadron tasks per 1000 flight hours. Again, an estimated line of "best fit" for both maintenance echelons was plotted as a means of reflecting historical as well as projected trends. A positive, upward trend in intermedicte and organization maintenance tasks can be expected in the future. Although the aircraft utilization rate, i.e., flying hours per aircraft per month, shows a downward trend, the maintenance tasks show an inverse relationship. The argument is frequently stated that "maintenance goes up when flying rates go down merely because the aircraft is available." This argument, although having some merit to it, still serves as a deserving simplistic apporach to maintenance. Aging of aircraft flight hardware, plus the relatively low availability of replacement parts is one significant factor contributing to the general upward trend of maintenance tasks per 1000 flight hours.

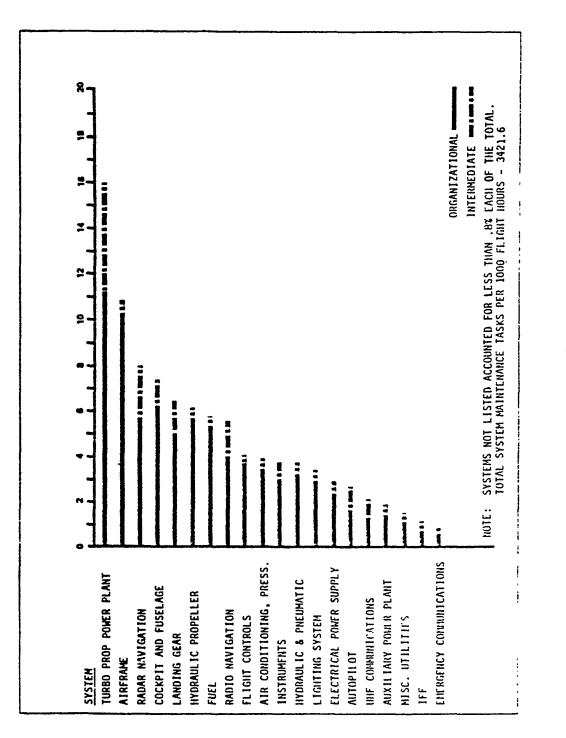
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C-130E PERCENT DISTRIBUTION OF ORGANIZATIONAL AND INTERMEDIATE SYSTEM TROUBLESHOOTING MAINTENANCE MANHOURS (15 YEAR AVERAGE 1962-1976) FIGURE 20



C-130E PERCENT DISTRIBUTION OF ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE TASKS (15 YEAR AVERAGE 1962-1976) FIGURE 21

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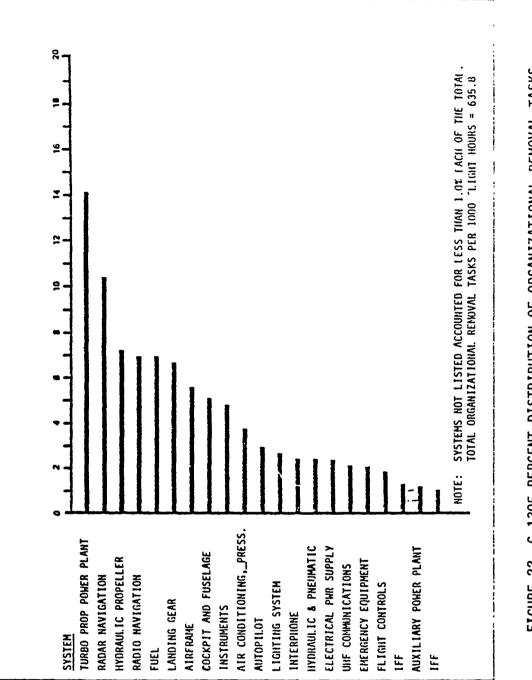


FIGURE 22 C-130E PERCENT DISTRIBUTION OF ORGANIZATIONAL REMOVAL TASKS (15 YEAR AVERAGE 1962-1976)

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TABLE 31 C-130E TOP TEN COMPONENT MANHOUR CONSUMER

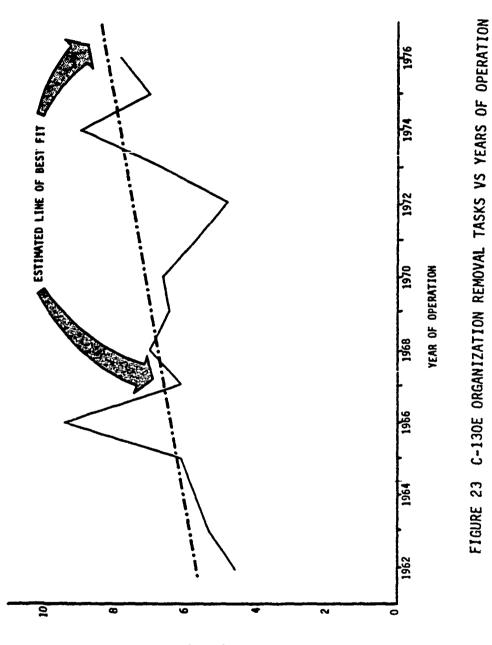
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		Ĩ	1761	1972	1972	61	1973	19	1974	51	1975		1976
I	IRONEINCL ATURE	RAHK	s (In SVS	RAHK	SVIBSVS	RANK	SUBSYS	RUNK	2 OF SUBSYS	RAHK	STEELS	RAIK	
1966	SSELL DODADELLED ASSY-FOURLETE (TC1)	-	38.35	-	36.78	2	30.18	2	34.09	-	27.99	-	25.00
1107	JASTI I FAULTEEN PORT	2	11.50	2	32.16	-	EL.1E	-	31.13	3	17.27	-	14.69
	TITIN DECT TEAMS AN ARM 21. TACAN SYS	-	34.01	-	31.68	~	30.04	Q	30.67	5	26.84	و	25.78
	JARDE LUAL VE AUNISTING ASSY (TCI)	-	19.04	5	15.78	-	16.01	0	14.45	01	12.36	6	11.97
12.2	72771 FAFTURENCY _ TRACKER, CV-1181	5	8.95	8	9.45		•		8	•	•	•	۱, ۱
16926	HUNT ASSY, REDUCTION GEAR (TCI)	9	7.29	•		•	•	~	7.66	•	•	•	•
1117	BECEIVER		21.16	6	19.35	1		•	•	6	18.70	8	21.46
22740	ENGINE AND DEC ASSY	8	6.17	9	14.74		12.97	9	13.91		•	•	•
221AA		6	6.60	1	89.6	5	99.68	-	12.56	2	12.68	-	19.87
72124		10	7.58	•		0		•	•	•	•	•	•
12/11	-			9	13.64	10	14.74				•		
16620	_			2	9.36	8	8.33	•	<b>6</b> .87	9	12.98	2	12.66
46115						•	11.00	5	10.66	•	•	•	•
12810						6	16.08	•		•	•	.	
12000								9	17.83		•	•	• '
22200										•	11.49	8	14.29
72860	RECEIVER-TRANS RT 289C									~	9.53	~	10.56
32526	PLINE TRUSTHE ASSY (1C1)									-	12.77	2	01.11
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	_	15	15.60	16.	16.60	14.97	97	15.75	75	5	13.27	7	14.77
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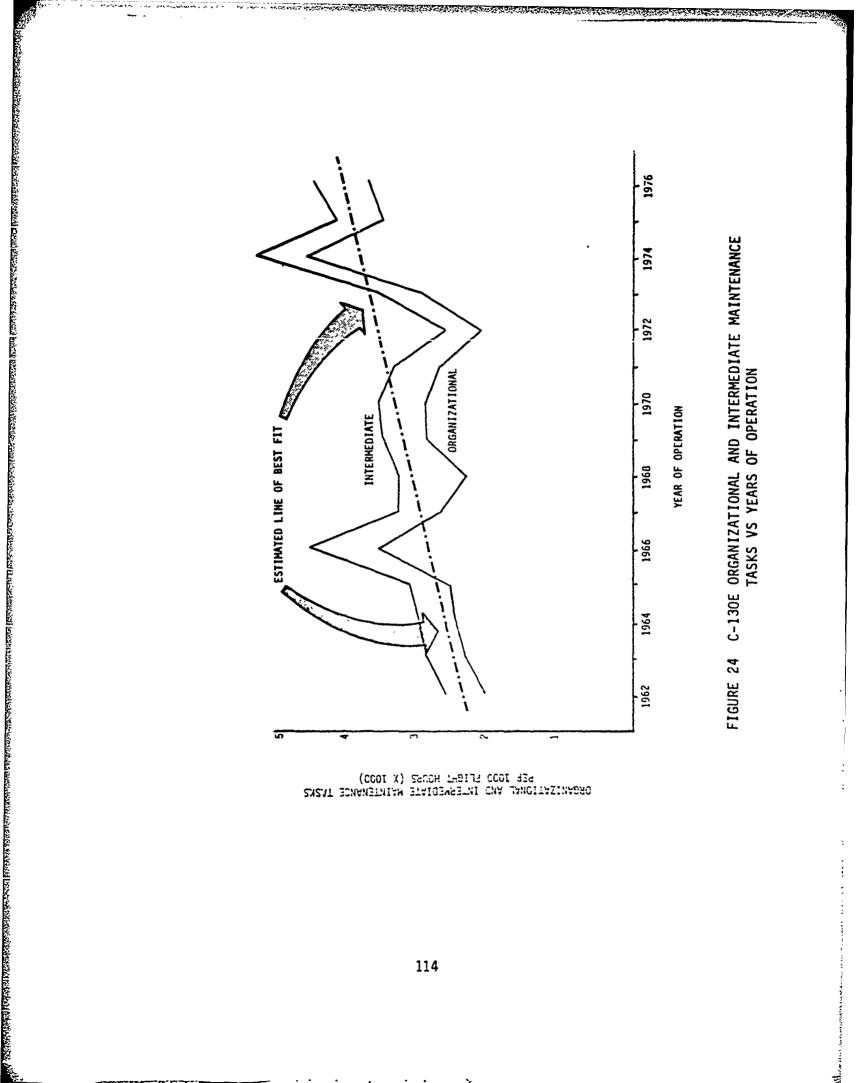
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A general upward trend in support general, organizational, and intermediate maintenance manhours can be seen in Figure 25. A high maintenance manhour profile is apparent during the high Southeast Asian utilization period of 1965 through 1968 with a downward profile occurring until 1972 followed by another upward maintenance surge through 1976. Not apparent in this figure is the fact that the flying rate per month per aircraft has dropped significantly since the Southeast Asian involvement. It appears that a continued upward trend can be forecast re: maintenance hour rates. TCTO installation hours reflect a dramatic drop in recent years. This is supported by the relatively small proportional contribution in maintenance hours since 1974.

## RELIABILITY

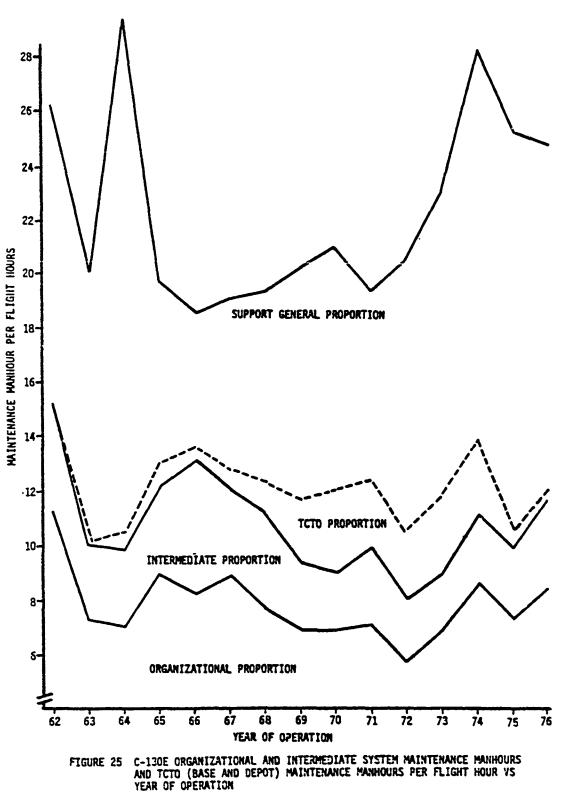
From a reliability viewpoint, six systems - airframe, cockpit and fuselage, landing gear, turbo prop power plant, lighting, and radar navigation - accounted for 57.4 percent of the total system failures, 1874.31 per 1000 flight hours. Four of these - airframe, landing gear, turboprop power plant, and radar navigation - were also in the high maintenance manhour category. The remaining two systems - cockpit and fuselage, and lighting - ranked 7th and 17th respectively in maintenance. A failure is charged to a component whenever maintenance is necessary to restore it to a satisfactory operating condition. This definition includes actions/tasks such as adjustments, calibration, and repair or replacement of attaching parts. Figure I-1, Appendix I, displays a percent distribution of the 15-year average failures by system.

It is apparent from Figure I-2, Appendix I, that the generally upward slope of failure rate is indicative of an aging aircraft.

A percent distribution of components repair off base by system is shown in Figure I-3, Appendix I. Four systems - instruments, landing gear, turboprop power plant, and air conditioning-pressurization, accounted for 64.6 percent of the total 160.01 components repaired off base per 1000 flight hours. This grouping of systems would be expected for a cargo type aircraft as the components, sealed instruments, fire recap, and engine parts, are typically not repaired at the intermediate level. In general, a downward trend is being experienced in this area, Figure I-4, Appendix I, indicating greater base self-sufficiency.

The percent distribution of components condemned, Figure I-5, Appendix I, indicates that four systems out of the 29 accounted for 57.4 percent of the total 23.38 per 1000 flight hours condemn value. In order of significance, these systems are turboprop power plant, landing gear, cockpit and fuselage, and air conditioning, pressurization. Figure I-6, Appendix I, illustrates a decided drop in components condemned during the 15-year life of the aircraft, 1962 through 1976. The highest reported value was 50.15 per 1000 flight hours for 1962 and a low of 9.15 for 1972.

Only material aborts are covered in this report. Other types of aborts such as weather, higher headquarters, etc. were not acquired. Figure I-7, Appendix I, presents a percentage distribution by system of aborts divided into a ground or flight type. The aborts split almost equal with ground accounting for 51.9 percent and flight 48.1 percent.



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Two systems, turboprop power plant and hydraulic propellers, accounted for exactly 50 percent of all aircraft aborts. Ground type aborts were in turn responsible for 57.5 percent of the aborts in the two systems.

Figure I-8, Appendix I, portrays the yearly abort rate (ground and flight) for the 15 study years. Although peaks occurred in 1966, 1971, and 1974 as a result of extensive aircraft operational involvement, the general trend was relatively stable.

The rank order of the top 10 component failures impacting organizational and intermediate maintenance for years 1971-1976 are depicted in Table 32. The top 10 ranked during 1971 reflect a wide range of variances apparent during each succeeding year, namely, 1972-1976. These rank order distributions encompassed 27 individual work unit codes (WUCs) (Reference Table 32). Current items reflecting highest failure rates include: a) blade assembly, b) wheel well assembly, c) floor panel assembly. d) B-nut. P/O hydraulic pneumatic valve, e) cooling, and f) center cargo insulation blanket. Also indicated, but not succinctly stated is the fact that components failing during particular year(s), when replaced or fixed by corrective action, precluded continued failure during subsequent years. Component items that initially showed high failures, continued to rank in the top 10 most failed list until corrective action was taken to resolve failure etiologies. Implied is the obvious fact that many components not failed and not scheduled for repair action accumulate "a time to fail profile." This is borne out by the listing of new and/or different failed components in 1972 when compared to 1971, 1973 when compared to 1972, 1974 when compared to 1973 and so on through 1976.

The depot repair tasks per 1000 flight hours is shown in Figure I-9. Excluding the miscellaneous "system," radar navigation, landing gear, fuel, and air conditioning/pressurization accounted for almost 44 percent of the total 584.127 depot actions per 1000 flight hours. Figure I-10, presents the percent distribution of all C-130E identified depot repair tasks by system.

TAULE 32 C-130E TOP TEN ORGANIZATIONAL AND INTERMEDIATE COMPONENT FAILURES

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		~	8.68	-	6.95	8	1	•	•	•	•	-	•
		-	6.46	6	01.7	•	1.17	•	1.15	-	4.81	•	1.15
		-	81.4		•	9	5.61	•		•			•
		-	6.32	-	5.66		6.41	2	6.80	1	7.42	~	6.7
			16.65	•	14.60		17.35		•	•	•	2	11.11
JOAN FILTER ASSEMULY		1	24.96	9	26.49	-	26.02	-	29.42	+	31.34	-	33.40
		-	19.79	1	16.76	-	14.32	2	17.90	•	•	•	•
		•	25.29			•	•	•	•	•	•	-	•
		ļ	6.01	02	6,69	1	٩	-	5.65	9	5.77	7	6.73
				2	22.69		•	•	•	•	۰Ì	•	•
12020 DETENT LATCH ASSV. LEFT				•	19.01	•	•	•	• •	•	1	•	•
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						-	13.86	•	•	•		•	•
						-	1.21	•	1	•	•	•	•
								•	13.63	•	•	•	•
								•	9.50	•	•	•	•
44165 LIGHT ASSEMDLY. FORMATION								~	13.15	•	•	•	•
								•	10.00	•	•	•	•
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										2	1.33	•	•
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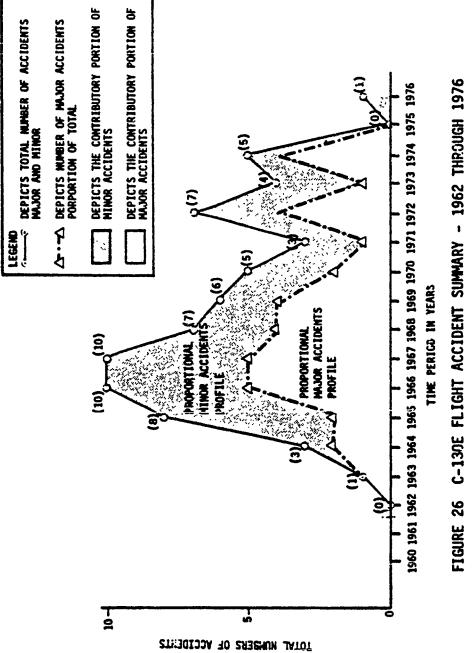
# SAFETY

Analyses of recorded unplanned events (accidents) during the 1962-1976 time period reflect the following trends, namely: a) the occurrence of unplanned events (major and minor accidents) began an upward trend in 1964 with a peak occurring in 1967, and b) a downward trend is apparent between 1967 through 1971 with a slight bi-modal increase noted in 1972 and 1974. The numbers of total unplanned events per year reflect a positive correlation to flight hours logged per year. Figure 26 provides a graphic scenario of major, minor, and total numbers of accidents that occurred since 1962. To date, a general downward trend of unplanned events (both major and minor accidents) is evident since 1972. It is expected that this level, attained in 1976, should remain at its present stage, if the numbers of flight hours, hence exposure level, remain steady state. This presumes that no major or cumulative fault side operations and/or maintenance practices are allowed to creep into current practices.

Figure 27, provides a graphic display of ratios of major and minor damaged aircraft and fatal accidents that have occurred per each 100,000 flight hours logged. A general upward trend in major and minor accident rates is apparent during the years of 1962 through 1967 followed by a downward profile in the ensuing years of 1968 through 1971. The highest ratios of accidents per 100,000 flight hours occurred in 1972 and 1974 with a dramatic drop thereafter. An upward trend in fatal accidents is evident from 1964 through 1972 with a subsequent downward trend recorded during the near term periods of 1973 through 1976. Extant within Figure 27 is a tabulation of the rates (ratios) of C-130E aircraft destroyed per 100,000 flight hours. For example, in 1963, there were 1.2 aircraft accidents per 100,000 flight hours with a concurrent destroyed aircraft ratio also of 1.2. In 1964, the accident ratio was 1.3 with a destroyed aircraft ratio of 0.00.

Further analyses of data concerning the flight or operating phases of the aircraft most likely to result in accidents has evolved the following historical profiles, viz:

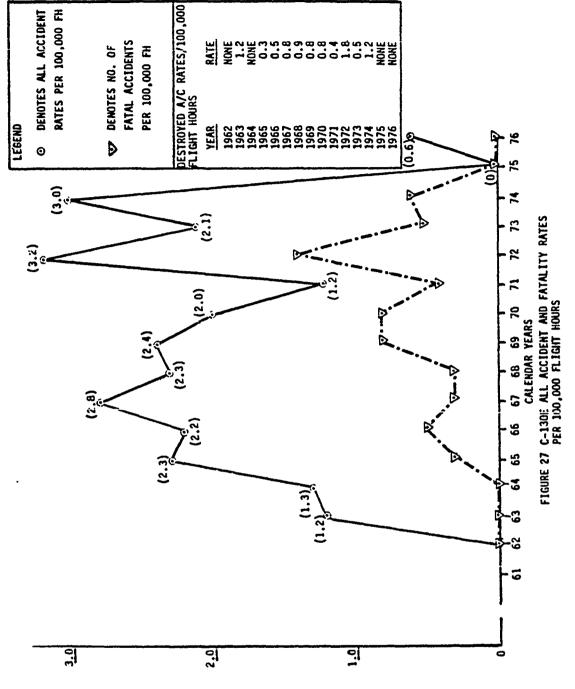
- Most unplanned events can be expected to occur during landing. An average of 59% of all unplanned events occur during the landing phase, with the majority of these occurring during flareout (30%), followed by roll (19%) and approach (10%).
- Unplanned events occurring inflight, ranks as the second highest accident category with a 15 year historical profile of 17%. The majority of these occur during normal flight (9%), followed by low level flight (7%) and descent (1%).



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- 3. Nine percent (9%) of all unplanned events occurred during taxiing (6% to takeoff and 3% taxiing from landing).
- Seven percent (7%) of all unplanned events occurred during takeoff. Three percent (3%) occurred during roll, three percent (3%) occurred during initial climb and one percent (1%) occurred as a result of discontinued takeoff.
- 5. The remaining unplanned event phases of flight operations that contribute to this proportional non-safety mosaic are:
  - a. Four percent (4%) occur during flight go-around and premeditated touch-and-go exercises.
  - b. Four percent (4%) occur while the engines are running but the aircraft is not taxiing.

# HUMAN RESOURCES

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## Maintenance Manpower

Present maintenance manpower resource levels indicate an existing maintenance manpower profile of almost 28 personnel (officers, enlisted and civilian) per C-130E aircraft. Reference Section III above for detailed information. A definite downward trend in Air Force personnel has occurred subsequent to 1972 due to planned reductions in force. However these reductions have not been apparent concerning the C-130 weapon system subsequent to the reductions that occurred in 1972. Table 33 below provides a summary of the numbers of officers, enlisted and civilian personnel totals from 1962 through 1976.

TABLE 33 - C-130E PERSONNEL AND POSSESSED AIRCRAFT BY YEAR

YEAR	TOTAL PERSONNEL	POSSESSED AIRCRAFT
1962	305	11
1963	2303	83
1964	6265	226
1965	8732	315
1966	8178	295
1967	8068	291
1968	7733	279
1969	8011	291
1970	8425	304
1971	8953	323
1972	8262	298
1973	8118	293
1974	8178	295
1975	8206	296
1976	8233	297

The accrual of personnel during the years of 1962 through 1965 is due to the large influx of delivered C-130 aircraft during these years. Although waveform fluctuations in total personnel occurred subsequent to 1965, a definite historical trend upward or downward is not evident except for 1971. Analyses of assigned manpower profiles by work center show that the majority of the C-130 maintenance personnel are located within the Field Maintenance Squadrons, followed by the Organizational Maintenance Squadrons, Avionics Maintenance Squadrons and Deputy Commander for Maintenance areas. The relative proportional weights of personnel per Unit of Equipment (UE) at these respective locations are: 1) FMS = 39.369%; 2) OMS = 32.350%; 3) AMS = 17.989; and 4) DCM = 10.305%. It is presumed that these percentiles expressed above will continue during the ensuing years, irrespective of the numbers of possessed C-130 aircraft.

#### **Operations** Manpower

Operations manpower profiles (i.e., pilots, co-pilots, navigators, flight engineers, and loadmasters) are expected to remain at a steady state, providing the aircraft utilization rates remain essentially unchanged. At present, crew ratio of 2.0 per aircraft is in effect. Crew profiles, as discussed in Section III above, indicate a leveling off since 1971. Future trends in flight crew numbers are difficult to project as they are sensitive to aircraft utilization demands. These demands, such as movement toward a war readiness posture induce a surge that can only be accommodated by increased crews providing utilization rates exceed 4.0 flying hours per day per aircraft.

#### Field Training

Current trends of Field Training Detachment workloads are expected to remain at a steady level of about 1,027 graduates per year per C-130 FTD at a rate of 44,400 annual trainee hours per FTD. Again, this is subject to dramatic upward shifts if C-130 logistics support rates increase due to extended surge demands.

#### Educational Backgrounds - Officer Personnel

Historical records, acquired from the Computational Sciences Division, Air Force Human Resources Laboratory, Lackland AFB, Texas, clearly show the upward trend of achieved academic status. In brief, 1962 through 1976 data reflect the following educational historical profiles of maintenance officer personnel:

- 1. Non-high school graduate personnel are not officer rated.
- 2. Significant drops in numbers of high school graduates holding officer ratings have occurred over the past 15 years (from 2383 in 1962 to 84 in 1976).

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- 3. Few officer rated personnel attend college without graduating.
- 4. More officer rated personnel successfully matriculate (Bachelor degrees) in today's environment that existed in the early and late 1960's.
- 5. More officer rated personnel receive advanced degrees (Master's and above) than in previous years. This is particularly true since June 1972.
- 6. The numbers (stated in proportional values) of officer rated personnel attending post-graduate courses subsequent to receipt of Master's degree certification is essentially unchanged.
- 7. A slight proportional increase in the numbers of Doctorial certified officers has occurred.

These trends are expected to continue as advanced Air Force technologies are introduced into future systems.

# Educational Backgrounds - Enlisted Personnel

In general the trends summarized for officer personnel above also apply to enlisted personnel. Fewer enlisted personnel are non-high school graduates in 1976 compared to numbers recorded in previous years. Proportionately more enlisted personnel are attending college and/or matriculating with bachelor's degrees than in previous years. These trends are expected to continue.

### MATERIAL RESOURCES AND COST DATA

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These two areas, although extensively discussed as separate identities within this report, are combined at this point for two reasons: a) both are dollar oriented, and b) a common-theme was evident. This theme or message was that no actual historical material or cost data had been collected or maintained over the life cycle of the weapon system and that no single data source exists that collects and maintains total historical cost data.

Vithin Material Resources and Cost Data, various data collection systems are discussed as to their respective purposes and results presented, however fragmentary, as they applied to this study. It is suggested the reader carefully review the limitations and intent of the system in question prior to the application of values shown. V CONCLUSION

#### SYNOPSIS

This report describes the work accomplished under Task III and IV of a six task study to "Historically Analyze the Resource Utilization Profiles of C-130E." The purpose of Task III was to identify, locate, collect and analyze all available C-130E data in Air Force data files, archives and data systems. This data, coupled with the published literature acquired and evaluated during Task II (Ref. 10), became the imput to Task IV.

The objectives of Task IV were: a) to develop a data matrix that evaluates the various data sources, b) to develop techniques and computer process the data collected, and c) to statistically analyze and package the data for presentation and use in this report. Detailed analysis of what the data may reveal about the C-130E aircraft and its design, operation and maintenance was not within the scope of this study.

Results of the work accomplished during Task III and IV included in this report are: a) development of an extensive collection of C-130E historical data elements (Section II), b) development of a data evaluation matrix (Section II), c) a data sources and agencies table (Appendix A), and d) extensive :ables and graphs (Section III) depicting the fifteen year historical profile of the C-130E Hercules aircraft including:

- Quantified organizational and intermediate and corrective maintenance manhours by sub-system, per 1000 flight hours.
- Distribution of corrective maintenance tasks by sub-system.
- sunizational and intermediate tasks by sortie.
- Organizational remove and install tasks per <u>1000</u> flight hours and component failures by system per 1000 flight hours and per sortie.
- Maintenance manpower estimates.
- Flight training histories.
- Time compliance technical order kits installed at base and at depot, including numbers and manhours.
- RDT&E, acquisition and O&S cost data.
- Educational levels of selected officer and enlisted Air Force skill codes.
- The C-130 MDS milestones, family tree and the C-130E system description.

All data acquired for the study were indexed into seven basic categories, i.e.; a) operations, b) maintenance, c) reliability, d) safety, e) human resources, f) material resources, and g) cost. In general, excellent weapon system data in the operational category was obtained for the 15 years of history. The maintenance, reliability and safety data categories were well documented. Scarcity of complete historical data were noted in the human resources, material resources and cost data categories. Therefore, statistical normalizing techniques were applied to the available data slices as the means of filling in missing years for selected data elements.

Despite some misgivings in some areas relative to the use of data from Air Force data systems for study purposes, this study has shown that one can derive a meaningful historical data base for others to use in predicting resource requirements for new, similar systems.

PROBLEMS

Some of the more significant problems were:

- A massive amount of data (6.1 million records and 900 reports, papers, articles, etc.) was collected and evaluated. Packaging and evaluating this data for logical presentation in a relatively few pages was a formidable task. There are any number of combinations in which the data could be packaged and displayed. The available time and study resources allocated did not permit investigation into the best displays of most practical approach. The contractor overcame this problem by the use of skilled personnel methods, techniques, computer programs and displays previously developed during twenty years of acquiring data from Air Force data systems/sources and applying the analyzed results to numerous Air Force programs.
- Much difficulty was encountered in sorting C-130E data from gross data on the C-130 MDS. This was especially true in the cost category and in the depot area.
- The general policy of USAF agencies to minimize historical data files, retaining data for short time periods only, as well as not having a central weapon system data repository had a profound affect on analytical results. Extrapolative and interpolative analytical results are always "second best" when attempting to evolve quantitative weapon system histories.
- In some cases, data requested were either not delivered or made available or sometimes arrived too late for analysis. This precluded quantitative compilation of meaningful, accurate historical profiles in some areas.
- Conflicting sources of data (e.g., number of possessed C-130E aircraft per year from 1962-1976), obviated or attenuated\_ analytical progress. In some cases these conflicts could not be satisfactorily resolved.

• Compilation of fragmented and/or discontinuous data resulted in formulation of some scattered, discontinuous analytical results.

Most of the difficulties encountered were resolved through extensive conference telephone conversations with key personnel located within the multitude of USAF agencies visited by Boeing investigators. Data source summaries, compiled during field trips, served as an excellant "gellow page" directory for additional follow-up when conflicts or other difficulties were encountered. Conflicting data problems were primarily resolved via engineering judgment or by direct contact with the originating USAF agency(ies).

## RECOMMENDATIONS

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The following recommendations are made:

- The Air Force should develop and implement an integrated historical data center to accumulate and maintain the seven categories of data developed in this study, by weapon system (MDS). This would allow Air Force agencies and their contractors to use a common data base in making trade studies and in responding to proposals for new weapon systems and equipment.
- Meanwhile, additional historical data bases on selected Air Force systems should be developed as delineated in this study. It is recommended that each study extend for 18 months to 24 months to allow adequate time for data acquisition and analysis.
- Similar studies should cover a weapon system (MDS) family rather then a single selected model. Family differences could be accounted for in equipment and configuration differences.
- A study of Air Force data systems should be made to identify data deficient areas and the means for accumulating actual data.for missing elements. Much of this could be done by sampling.
- The data evaluation pointed to many obvious areas for future investigation such as; why is fuel consumption at one base, twice that at another? Why are maintenance manhours so high on the system interface items such as wiring, plumbing, connections and fasteners? Is the planned training versus the actual task performance compatable? Why are so many after the fact modifications required and are they all necessary? What is the relationship between make work modificationscost and RDT&E cost?

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# GLOSSARY OF TERMS

ABORT MATERIAL Premature termination of a flight because of mission essential equipment failure.

ACCIDENT An unplanned event that does damage to persons or property, exclusive of damage caused by action of an enemy or hostile force, see AFR 127-4 for exact definitions of different accident classes.

AEROSPACE VEHICLE For the purposes of this manual, an aerospace vehicle includes all USAF owned aircraft and selected missiles (ADM, AGM-28, AQM, BQM, CIM, CGM, LGM, HGM, LV, and SLV).

AIRCRAFT ATTRITED Aircraft lost from the inventory because of attrition.

AIRCRAFT MODIFICATION Class IV modifications are defined (AFR 57-4) as those retrofit changes required to insure safety of personnel, systems, or equipment by eliminating operational, nuclear, or physical hazard, necessary to correct a deficiency including one that effects reliability, maintainability, electro-magnetic compatibility, or communications security; or required for logistics support purposes. Class V modifications are defined (T.O. 00-25-30) as changes to the physical configuration or in the functional characteristics of a system or equipment. Class V modifications improve system operational capabilities and are often associated with changes in assigned mission. Aircraft modification provides for:

- a. Class IV and V modifications of:
  - (1) in-service aircraft
  - (2) direct ground support equipment
  - (3) training equipment (aircraft)
  - (4) components
- b. Procuring, under HQ USAF approved and directed modernization/maintenance programs:
  - (1) modification kits and special tools

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- (2) concurrent replacement of equipment taken from stock
- (3) peculiar ground support equipment
- (4) revised technical data and handbooks
- c. Modifying in-inventory components.

AIRCRAFT PROCUREMENT (Appr. 3010). This appropriation provides for fabricating and procuring aircraft weapon systems, modifications, direct ground support equipment, aircraft industrial facilities, spares and repair parts, war consumables, miscellaneous aircraft requirements, and first destination transportation. It includes procuring of Air Force Stock Fund items (except from the Stock Fund), base procurement (see AFR 67-3), contract technical services (see AFR 66-18), engineering data, installing prototype modification under HQ USAF approved and directed modernization/maintenance programs, and labor required for Class IV and V modifications when the aircraft are a part of the scheduled modernization program for example B-52 for FY 1967 Program. AIRCRAFT REPLENISHMENT Are those required to support aircraft in the

SPARES AND REPAIR PARTS inventory, the modification and modernization program, war readiness material, and related support equipment, that is, AGE. Aircraft replenishment spares are those investment type items (recoverable and replacement) which are normally repaired and returned to stock. Investment type items are defined as repa able assemblies, spares\_and repair parts which are centrally managed. The cost of aircraft replenishment spares is funded out of Air Force Appropriation 3010, Aircraft Procurement.

AIRCRAFT SAMPLED The number of aircraft included in the data sample - may not include all aircraft of a given model.

AIRCREW The full complement of officers and airmen designated to man an aircraft in flight.

AIRCREW PERSONNEL Personnel whose primary duty is to occupy aircrew positions.

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AIR FORCE SPECIALTY CODE (AFSC)	A numerical designation of an Air Force Spec- ialty. The meaning of the codes is specified in AFR 35-1, Military Personnel Classification Policy Manual.			
AIRFRAME TIME	The average number of flight hours accumulated on the airframe of the fleet of aircraft sampled.			
ATTACHING PARTS	This includes items such as seals, gaskets, electrical connections, fittings, etc. MDC action taken code "G".			
AUTHORIZED ACTIVE INVENTORY (AAI)	The sum of UE authorized (to include the force UE plus UE required to train replacement crews) plus an allowance for not operationally available (NOA) (10% for force aircraft) plus those aircraft in test category for the purpose of improving the capabilities of the MDS concerned. This term refers to authorizations only and does not include physical assets.			
AVERAGE FLIGHT LENGTH	The total flying hours divided by the number of sorties yields the average flight length.			
AVERAGE UTILIZATION	The average number of hours flown by one aircraft in one month.			
BASE MAINTENANCE	a. Base maintenance is that maintenance performed at base level by designated maintenance organizations. It generally consists of three types of maintenance: organizational or flight-line, field and periodic.			
	b. The base maintenance cost_factors include costs for military and civilian labor and expense material purchased from the Systems Support Division and the General Support Division of the Air Force Stock Fund. Military labor cost is funded out of Air Force Appropriation 3500, Military Personnel, while civilian labor and material costs are funded out of Air Force Appropriation 3400, Operations and Maintenance (O&M).			
BENCH CHECK	Maintenance action to determine condition of an item entering intermediate (shop) mainten- ance. MDC action taken codes A through D and l through 9.			

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BENCH CHECK AND REPAIR	Item bench checked and performance of con- current repair action. MDC action taken coo "A".
BENCH CHECK (ONLY)	Item bench checked and no subsequent action. MDC action taken codes "B", "C", "D".
BENCH CHECK SERVICEABLE	Item found serviceable after bench check. MDC action taken code "B".
COMMAND OPERATING	The Air Force Command and geographical area which possess the aircraft under study.
COMPONENTS REPAIRED OFF BASE	See NRTS.
CONDEMNED	Items that cannot be repaired and are pro- cessed for condemnation, reclamation, or salvage, MDC action taken code 9.
CREW COMPOSITION	The number of pilots, navigators, electroni warfare officers, and airmen authorized as aircrew for a particular weapon system by Air Force Specialty Code (AFSC). It should be noted that crew composition is frequently varied by mission.
CREW RATIO (CR)	The aircrew-to-aircraft ratio_reflecting th number of aircrews for each UE aircraft in the squadron.
DATA TIME PERIOD	Beginning and ending dates of the time peri of the data sample; selected as representa- tive because of consistency in operations a data reporting.
DEPOT MAINTENANCE	That maintenance performed on material re- quiring major overhaul or a complete rebuil of parts, assemblies, subassemblies and end items including the manufacture of parts, modifications, testing, and reclamation as required.
FAILURE	Any item that requires maintenance to restor to a satisfactory operating condition, in- cluding repair/replacement of attaching par Normal service is not included. MDC failur count is obtained from AFTO Form 349 subject to the following criteria:
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Units of work having the following MDC How Malfunction codes were omitted:

- 793 No Defect TCTO Kits Received by Base Supply
- 796 No Defect Removed for Reliability Assessment
- 797 No Defect Technical Order Previously Complied With
- 798 No Defect Technical Order Not Applicable - Equipment to be Replace. Modified or Not Installed
- 799 No Defect

- 800 No Defect Component Removed and/or Reinstalled to Facilitate Other Maintenance
- 801 No Defect Technical Order Compliance
- 802 No Defect Partial Technical Order Compliance
- 803 No Defect Removed For Time Change
- 804 No Defect Removed for Schedule Maintenance
- 805 No Defect Not Otherwise Coded
- 811 No Defect Class 1 Modification
- 812 No Defect Associated Equipment Malfunction
- 911 Engine TCTO Correction Code
- 948 No Defect Operator Error

If the data were taken from an On-Equipment Form, failure were defined by the following "Action Taken" Codes:

- F Repair
- G Repair and/or Replacement of Attaching Parts

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K - Calibrated - Adjustment Required

- L Adjust
- V Clean

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Z - Corrosion Treatment

If the data were taken from a shop form, failures were defined by the following Action Taken Codes:

- 1 Bench Checked NRTS (Not Repairable This Station) - Repair Not Authorized
- 2 Bench Checked NRTS Lack of Equipment, Tools, or Facilities
- 3 Bench Checked NRTS Lack of Technical Skills
- 4 Bench Checked NRTS Lack of Parts
- 5 Bench Checked NRTS Shop Backlog
- 6 Bench Checked NRTS Lack of Technical Data
- 7 Bench Checked NRTS Excess to Base Requirements
- 8 Bench Checked Returned to Depot Facilities by Direction of System Manager or Item Manager
- 9 Bench Checked Condemned
- A Bench Checked and Repaired
- D Bench Checked Transferred to Another Base
- F Repair
- G Repair and/or Replacement of Attaching Parts
- K Calibrated Adjustment Required
- L Adjust
- V Clean
- Z Corrosion Treatment

FAILURE MODE Key word(s) describing the equipment failure within the limits of the MDC "How Malfunction" listing in the Work Unit Code book. FLIGHT ABORT The premature termination of a flight because of mission essential equipment failure - MDC When Discovered Code "C". FLIGHT TIME Hours of operation recorded from brake release to engine shutdown. FLYAWAY COST Flyaway cost for aircraft includes the cost of the following airborne and installed equipment: airframe, propulsion equipment, electronics, armament, and other installed government furnished equipment. FULL STOP LANDING The action of bringing an airplane down after having descended to a point fifty feet above the surface, of making contact with the surface and of completing the landing roll. GENERAL SUPPORT Material purchased from the General Support MATERIAL Division which is decentrally managed expense type items including aircraft, electronic and communications repair parts. and hase consumables. GROUND ABORT The cancellation or postponement of an aircraft scheduled for flight because of substandard performance of mission essential equipment - MDC When Discovered Code "A". GROUND HANDLING Includes manhours expended positioning, AND SERVICE parking, moving, fueling and other servicing functions on an aircraft and coded under the OIXXX work unit code series. HUMAN RESOURCES For purposes of this study, includes: people required to perform support functions broken out along various dimensions such as AFSC, experience level, training, and rank. INTERMEDIATE Maintenance expended on removed engines or MAINTENANCE components in the shop during repair or preventive maintenance. LANDINGS PER FLIGHT Total Landings including "Touch and Go" HOUR Total Flight Time

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LOGISTICS	For purposes of this study includes: The science of planning and carrying out the acquisition, distribution, maintenance, and dispersal of weapon systems and support equipment; the movement and support of military forces, and the acquisition or furnishing of services.
MÁIN OPERATING BÁŚĖ (MOB)	An MOB is an active USAF air base having assigned theater forces or rotational tactical forces or a major active flying support mission in peacetime. It is capable of supporting such forces in sustained war- time operations, depending upon the assigned mission. It has field maintenance, base supply, munitions, security, billeting and messing, transportation, communications, navaids, weather, and operational support facilities. It is capable, with prepositioned WRM, of receiving, servicing, and initially launching augmentation forces deployed with direct mission support personnel and it can sustain such operations under emergency conditions for 30 days.
MAINTENANCE MANHOURS PER FLIGHT HOUR	The total direct maintenance manhours expended per aircraft flying hour. This rate is cal- culated for total flight line tasks, total shop tasks, and total flight line and shop tasks.

MAINTENANCE MANNING CAPABILITY The maximum number of flying hours per aircraft per unit of time that the maintenance function of an organization is manned to support. In certain units that are manned for surge contingencies, maintenance manning capability may exceed the maintenance manning requirements needed to support a peacetime flying hour rate.

MAINTENANCE ON SERVICEABLE ITEMS On-equipment and shop maintenance which is performed to gain access to other components is coded with "How Malfunctioned" Code 800 (No Defect - Component Removed/Reinstalled to Facilitate Other Maintenance). If a component is removed, bench checked and found serviceable, the shop maintenance action is coded with "Action Taken" Code B (Bench Checked - Serviceable). The same component may be reinstalled, or a new component may have been installed in its place when the original was removed.

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MAINTENANCE	See Base Maintenance
MAINTENANCE TASKS	Manhours spent on each unit of work produced and the number of units of work performed in 1000 flying hours were calculated for the following tasks:
	Flight Line Removals
	Flight Line Remove and Replace
	Flight Line Remove and Reinstall
	Flight Line Attaching Parts
	Flight Line Checks OK
	Flight Line Other
	Flight Line Total
	Shop Bench Check
	Shop Bench Check and Repair
	Shop Bench Check - NRTS
	Shop Checks OK
	Shop Repair
	Shop Attaching Parts
	Shop Other
	Shop Total
MATERIAL RESOURCES	For purpose of this study, includes: spares, GSE, training equipment, and fuel.
MISSION-DESIGN- SERIES (MDS)	An alpha-numeric code used to identify a specific type of aircraft. The mission symbol, "a letter", is used to denote the primary function or capability of an aircraft, for example, "C" in C-130, for cargo. The design number denotes different aircraft within the same function, for example, "130" in C-130 as opposed to "135" in C-135. The series symbol, a letter, is used to denote that significant differences exist between related aircraft because of follow-on production or major modification, for example, "E" in C-130E as opposed to "D" in C-130D. In certain cases

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another letter can precede the MDS designation. This letter is used to indicate that the particular aircraft no longer has the same characteristics as others of the same MDS, for example, "A" in AC-130E as opposed to C-130E. This application is termed "Modified Mission Symbol".

MISSION LENGTH See Sortie Length.

NOT OPERATIONAL READY The aerospace vehicle is not capable of per-MAINTENANCE (NORM) forming all of its assigned mission(s) due to required maintenance actions.

Same as above.

(FLYABLE) NOT OPERATIONAL READY MAINTENANCE (NORM) (G)

NOT OPERATIONAL READY

MAINTENANCE (NORM) (T)

(GROUNDED)

SUPPLY (NORS)

(FLYABLE)

(GROUNDED)

NRTS

SUPPLY (NORS) (F)

SUPPLY (NORS) (G)

NOT OPERATIONAL READY

(TCTO)

NOT OPERATIONAL READY

MAINTENANCE (NORM) (F)

Same as above.

Same as above.

NOT OPERATIONAL READY The aerospace vehicle is not capable of performing all of its assigned mission(s) due to parts required from supply.

NOT OPERATIONAL READY Same as above.

Same as above.

Not Repairable This Station. Items that are shipped from the base for repair or overhaul and meet one of the following criteria:

- I Bench Check Maintenance/NRTS Repair Not Authorized
- 2 Bench Check Maintenance/NRTS Lack of Equipment, Tools, or Facilities
- 3 Bench Check Maintenance/NRTS Lack of Technical Skills
- 4 Bench Check Maintenance/NRTS Lack of Parts

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	5 - Bench Check Maintenance/NRTS - Shop Backlog
	6 - Bench Check Maintenance/NRTS - Lack of Technical Data
	7 - Bench Check Maintenance/NRTS - Excess to Base Requirements
	8 - Bench Check Maintenance/NRTS - Directed Return to Depot Facility
OFF-EQUIPMENT MAINTENANCE	See Intermediate Maintenance
ON-EQUIPMENT	See Organizational Maintenance
OR - OPERATIONALLY READY	The aerospace vehicle is capable of performing all of its assigned missions. (Preflight, post flight, thru flight and home station check inspections or functional check flights are considered as OR conditions.)
ORGANIZATIONAL MAINTENANCE	Maintenance in which the airplane is the end item.
PERCENT FAILURE MODE	Percent of total failures reported against specific MDC "How Malfunction" key words.
PHASE OF OPERATION	Phases of flight such as: Takeoff, inflight, landing, taxiing, etc.
POSSESSED AIRCRAFT	The actual ownership of and responsibility for an aerospace vehicle.
QPA (QUANTITY PER AIRCRAFT)	The quantity per aircraft indicates the total number of a particular component installed on one aircraft.
REMOVALS	Maintenance action to remove an item from the aircraft. MDC Action Taken Codes "P" and "R".
REMOVE AND REINSTALL	Maintenance action to remove an item and install the same item - most often to gain access to other areas. MDC Action Taken Code "S".
REMOVE AND REPLACE	Maintenance action to remove an item from the aircraft and install a like item in its place. MDC Action Taken Code "R".

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Repair	action per	formed se	parately	from Bench
Checks	. Includes	s total re	epair hour	rs of
cleani	ng, disasse	embly, ins	spection,	adjustment,
reasser	nbly and lu	ubrication	۱.	

SCHEDULED MAINTENANCE

Includes maintenance manhours expended on the following:

- Look Phase of all inspections the accomplishment of requirements listed on the inspection work card deck for the particular inspection, i.e., preflight (PR), basic postflight (BPO), hourly postflight (HPO), periodic or phase (PE), all of which are listed under the O3XXX work unit codes.
- b. Fix Phase of all inspections the correction of discrepancies discovered during the "look" phase of an inspection.
- c. Special Inspections these inspections are listed under the O4XXX work unit code series and include numerous items listed for special inspections such as test flights, hard landings, hot starts, etc.
- d. Scheduled Shop Support the perfornance of planned repetitive maintenance tosks in the shops such as engine teardown and/or buildup; wheel and tire buildup or teardown; parachute packing; fabrication, etc., and are coded under the O9XXX work unit code series.
- e. TCTO the compliance with Time Compliance Technical Orders (except Immediate Action TCTO's) on aircraft and engine systems and/or components.
- f. Aircraft Washing and Cleaning aircraft washing, cleaning, vacuuming, polishing, and the removal of ice and frost from aircraft. It does not include the treatment of corroded parts which should be charged to the applicable work unit code of the affected part. Work unit code series 02XXX apply to washing and cleaning.

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	SERVICEABLE ITEM MAINTENANCE	See Maintenance on Serviceable Items.
	SORTIE LENGTH	A sortie is measured from the start of the takeoff run until one of the following occur:
		<ol> <li>Aircraft is on the ground for five minutes.</li> </ol>
		2. Engines are shut down.
で み な 5 5 5 - - - - - - - - - - - - -		3. Crews are changed.
	SYSTEM	A functionally related group of components and parts; defined in military coding systems by a two digit number, e.g.; 45 = hydraulics, 13 = landing gear and 74 = fire control.
	SYSTEM MAINTENANCE	Maintenance expended on the aircraft in the repair or preventative maintenance of systems, subsystems and components.
	SYSTEMS SUPPORT MATERIAL	Material purchased from the Systems Support Division for the maintenance of aircraft and missiles which is centrally procured expense type items such as nonreparable spares and repair parts, including peculiar spares.
· · · · · · · · · · · · · · · · · · ·	TACTICAL UNIT	A unit designated for combat operations or a unit which directly supports combat operations.
	TASKS PER 1000 FLIGHT HOURS	The rate obtained by dividing the total occurrences of a particular task by the flight hours expressed in thousands.
	TCTO - TIME COMPLIANCE TECHNICAL ORDER	An Air Force publication that gives specific technical directions and information with respect to the modification, inspection, storage, operation or maintenance of equip- ment, requiring compliance within a specified time period.
	TOTAL MAINTENANCE	Total maintenance consists of all actions taken to retain material in a serviceable condition or to restore it to serviceability. It includes inspection, testing, servicing, classification as to serviceability, repair rebuilding, and reclamation.
	TOUCH AND GO LANDING	The action of bringing an airplane down after having descended to a point fifty feet above the surface, or making contact with the surface, but continuing with another takeoff without coming to a stop.
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TROUBLESHOOTING	Maintenance time expended in locating a suspected discrepancy. MDC Action Taken code "Y". Normally of sufficient length as to be reported separately from the repair action.
TROUBLESHOUT ING MANHOURS	Maintenance manhours expended on the air- plane in fault isolation. Usually those cases where troubleshooting time is expended separately from the repair.
TYPE OF ACCIDENT	Different types of aircraft accidents, such as: loss of directional control on the ground; spin or stall; fire or explosion; abandoned aircraft; etc.
UNIT EQUIPMENT (UE)	The number of aircraft which are authorized for operational (flying) missions. The UE authorization forms the basis for authori- zation of operating resources (manpower, support equipment, and flying hour funds).
UTILIZATION	Total Flight Time (Months Flown) X (No. of Aircraft Operating)
UTILIZATION RATE (UR)	The average number of flying hours per air- craft per specified unit of time. It is estimated as the quotient of programmed squadron flying hours divided by squadron UE.
WHEN DISCOVERED	Identifies when the need for maintenance was detected.
	BF - Before Flight, When Discovered codes A, B, G, N
	<pre>IF - In Flight, When Discovered codes     C, D, P</pre>
	BTF - Between Flignts, When Discovered codes E, F
	<pre>INS - Inspection, all other When Discovered</pre>
WORK UNIT CODE	A five digit number designating a system, subsystem, component or part on an aircraft. Total work unit codes per aircraft range from 2,000 to 10,000 depending on complexity.

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AAI	AUTHORIZED ACTIVE INVENTORY
ABCC	AIRBORNE COMMAND AND CONTROL
AC	ALTERNATING CURRENT
A/C	AIRCRAFT
ACFT	AIRCRAFT
ADI	ATTITUDE DIRECTIONAL INDICATOR
ADM	AIR (A) LAUNCH ENVIRONMENT, DECOY (D) MISSION,
	GUIDED MISSILE (M) VEHICLE TYPE
AF	AIR FORCE
AFAFC	AIR FORCE ACCOUNTING AND FINANCE CENTER
AFB	AIR FORCE BASE
	AIR FORCE HUMAN RESOURCES LABORATORY
AFISC	AIR FORCE INSPECTION AND SAFETY CENTER
	AIR FORCE LOGISTICS COMMAND
AFM	AIR FORCE MANUAL
AFR	AIR FORCE REGULATION
AFS	AIR FORCE SPECIALITY
	AIR FORCE SPECIALITY CODE
AFSU	
	AIR FORCE SYSTEMS COMMAND
AGE	AEROSPACE GROUND EQUIPMENT
AGM	AIR (A) LAUNCH ENVIRONMENT, SURFACE ATTACK (G) MISSION,
•••	GUIDED MISSILE (M) VEHICLE TYPE
ALC	AIR LOGISTICS CENTER
	ALTERATION
	AVIONICS MAINTENANCE SQUADRON
	ADVANCED MEDIUM STOL TRANSPORT
AN	ARMY/NAVY
ANAL	ANALYSIS
APLN	AIRPLANE
APPR	APPROPRIATION
AQM	AIR (A) LAUNCH ENVIRONMENT, DRONE (Q) MISSION,
	GUIDED MISSILE (M) VEHICLE TYPE
ARA	AIRBORNE RADAR APPROACH
ASD	AERONAUTICAL SYSTEMS DIVISION
ASIP	AIRCRAFT STRUCTURAL INTEGRITY PROGRAM
ASW	ANTI SUBMARINE WARFARE
	AIR TRAINING COMMAND
AVG	AVERAGE
ATM	AIR TURBINE MOTOR
AVGAS	AVIATION GAS
BAC(IL&S)	BOEING AEROSPACE COMPANY, LOGISTICS SUPPORT AND SERVICES
BF	BEFORE FLIGHT
BIAS	BATTLEFIELD ILLUMINATION AIRBORNE SYSTEM
BL	BASE LEVEL
BLIS	BASE LEVEL INQUIRY SYSTEM
BOS	BASE OPERATING SUPPORT
BOS	BASIC POST FLIGHT
	MULTIPLE (B) LAUNCH ENVIRONMENT, DRONE (Q) MISSION,
BQM	GUIDED MISSILE (M) VEHICLE TYPE

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CACE	COST ANALYSIS COST ESTIMATING
CAMMIS	COMMAND AIRCRAFT MAINTENANCE MANPOWER INFORMATION SYSTEM
CEM	COMMUNICATION ELECTRONIC METEROROLOGICAL
CGM	COFFIN (C) LAUNCH ENVIRONMENT, SURFACE ATTACK (G) MISSION,
	GUIDED MISSILE (M) VEHICLE TYPE
CHG	CHANGE
CIM	COFFIN (C) LAUNCH ENVIRONMENT, INTERCEPT-AERIAL (I)
	MISSION, GUIDED MISSILE (M) VEHICLE TYPE
CIV	CIVILIAN
CNT	CONTROL
COCESS	CONTRACTOR OPERATED CIVIL ENGINEER SUPPLY STORE
COMM	COMMUNICATIONS
COND	CONDITIONING
CONF	CONFIGURATION
CONUS	CONTINENTAL UNITED STATES
CUPARS	CONTRACTOR OPERATED PARTS STORE
DC	DIRECT CURRENT
DCM	DEPUTY COMMANDER FOR MAINTENANCE
DEPT	DEPARTMENT
DEV	DEVELOPMENT
DI	DATA ITEM
DL	DEPOT LEVEL
DPT	DEPOT
ECM	ELECTRONIC COUNTERMEASURES
ELECT	ELECTRONICS
ENG	ENGINE
ENL	ENLISTED
EQUIP	EQUIPMENT
EŤA	EXCEPTION TIME ACCOUNTING
EXT	EXTERNAL
FH	FLYING HOUR
FLT	FLIGHT
FMS	FIELD MAINTENANCE SQUADRON
FTD	FIELD TRAINING DETACHMENT
FY	FISCAL YEAR
GAL	GALLON
GEN	GENERAL
GFM	GOVERNMENT FURNISHED MATERIAL
GND	GROUND
GPM	GALLONS PER MINUTE
GRND	GROUND
	GRADUATES
GSE	GROUND SUPPORT EQUIPMENT
	CAMMIS CEM CGM CHG CIM CIV CNT COCESS COMM COND CGNF CONUS CUPARS DC DCM DEPT DEV DI DL DPT ECM ELECT ENG ENL EQUIP ETA EXT FH FLT FMS FTD FY GAL GEN GRND GRND GRDS

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KF	HIGH FREQUENCY
HGM	SILO STORED (H) LAUNCH ENVIRONMENT, SURFACE ATTACK (G)
11003	MISSION, GUIDED MISSILE (N) VEHICLE TYPE
НРО	HOURLY POST FLIGHT
HQ	HEADQUARTERS
HRS	HOURS
HSI	HORIZONTAL SITUATION INDICATOR
HWSA	HISTORICAL WEAPON SYSTEM ANALYSIS
HYD	HYDRAULIC
I&L	INSTALLATIONS AND LOGISTICS
I&S	INTERCHANGEABILITY AND SUBSTITUTION
INC	INCORPORATED
IF	IN FLIGHT
IF	IDENTIFICATION, FRIEND OR FOE
INCL	INCLUDE
IND	INDICATED
INS	INSPECTION
INST	INSTRUMENTS
INSP	INSPECTION
IRAN	INSPECT AND REPAIR AS NECESSARY
	INCREASED RELIABILITY OF OPERATIONAL SYSTEMS
	INTERMEDIATE
INVEST	INVESTMENT
LBS	POUNDS
LCC	LIFE CYCLE COST
	LEFT
LFT	
LGM	SILO LAUNCH ENVIRONMENT, SURFACE ATTACK (G) MISSION
	GUIDED MISSILE (M) VEHICLE TYPE
LLLTV	LOW LEVEL LIGHT TELEVISION
LORAN	LONG RANGE NAVIGATION
M	MILLION
MAC	MILITARY AIRLIFT COMMAND
MAINT	MAINTENANCE
MAP	MILITARY ASSISTANCE PROGRAM
MAT	MATERIEL
MAW	MILITARY AIRLIFT WING
MAX	MAXIMUM
MBO	MAIN OPERATING BASE
MCS	MAINTENANCE COST SYSTEM
MDC	MAINTENANCE DATA COLLECTION
MDCS	MAINTENANCE DATA COLLECTION SYSTEM
MDS	MODEL/DESIGN/SERIES
MIS	MANAGEMENT INFORMATION SYSTEM
MISC	MISCELLANEOUS
MMH	MAINTENANCE MANHOURS
M/MHR	MAINTENANCE PER MANHOURS
MMICS	MAINTENANCE MANAGEMENT INFORMATION CONTROL SYSTEM
MO	MONTH
MODS	MODIFICATIONS

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100	MELTERY DEDCOMMENCE
MPD	MILITARY PERSONNEL CENTER
MT	MAINTENANCE
MTT	MOBILE TRAINING TEAM
NAY	NAVIGATIONS
NO.	NUMBER
NOA	NON OPERATIONAL ACTIVE
NOM	NOMENCLATURE
NON XD	NON EXPENDABLE DEPOT
NORM	NOT OPERATIONAL READY MAINTENANCE
NORS	
NRTS	NOT REPAIRABLE THIS STATION
NSC	NATIONAL STOCK CLASS
NSN	NATIONAL STOCK NUMBER
0&S	OPERATING AND SUPPORT
DASD	OFFICE ASSISTANT SECRETARY OF DEFENSE
OASD OFF	OFFICE ASSISTANT SECRETART OF DEPENSE
<b>V</b> 1 1	
OMS	ORGANIZATIONAL MAINTENANCE SQUADRON
OPS	OPERATIONS
OR	OPERATIONAL READY
	ORGANIZATIONAL
OSCR OT	OPERATING AND SUPPORT COST REPORT
••	OTHER
	PLANS AND SCHEDULES
	PROGRAMMED DEPOT MAINTENANCE
	PROGRAM ELEMENT CODE
PERS	PERSONNEL
	PETROLEUM, OILS AND LUBRICANTS
POSS	POSSESSED
PROC	PROCUREMENT
PROD	PRODUCTION
PROP	PROPELLER
PRESS	PRESSURE
PRESS	PRESSURIZATION
PSI	POUNDS SQUARE INCH
PRESS PRESS PSI PWR	POWER
QC	QUALITY CONTROL
QEC	QUICK ENGINE CHANGE
<b>QPA</b>	QUANTITY PER AIRCRAFT
QTY	QUANTITY
ŔĂF	ROYAL AIR FORCE
R&D	RESEARCH AND DEVELOPMENT
R&M	RELIABILITY AND MAINTAINABILITY
RCS	REPORT CONTROL SYMBOL
REC	RECEIVER
REF	REFERENCE
REL	RELIABILITY
REPL	REPLACEMENT
REPLEN	REPLENISHMENT
RPM	REVOLUTIONS PER MINUTE
RT	RECEIVER TRANSMITTER
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SBSS	STANDARD BASE LEVEL SUPPLY SYSTEM
SC	SCHEDULED
SE	SJPPORT EQUIPMENT
	SUFFURI EQUIPMENT
SEC	SECTION
SECT	SECTION
SERV	SERVICING
SKE	SCHEDULED SJPPORT EQUIPMENT SECTION SECTION SERVICING STATION KEEPING EQUIPMENT
	SERVICING STATION KEEPING EQUIPMENT SYSTEMS PROGRAM OFFICE
570	STSTEMS PROGRAM OFFICE
SPT	SUPPORT
STOL	SHORT TAKEOFF AND LANDING
SYS	SYSTEM
SV	SERVICING
SURSYS	SURSYSTEM
SV SUBSYS TAC	
TAU	TACTICAL AIR COMMAND TACTICAL AIRLIFT WING TEST AND EVALUATION TIME COMPLIANCE ITEM TIME COMPLIANCE TECHNICAL ORDER TEMPORARY DUTY TECHNICAL TECHNICAL ORDERS
TAW	TACTICAL AIRLIFT WING
T&E	TEST AND EVALUATION
TCI	TIME COMPLIANCE ITEM
TCI TCTO	TIME COMPLIANCE TECHNICAL ORDER
TDY	TEMPORARY DUTY
TECH	TECHNICAL
TOIS	TECHNICAL ADDEDS
TDY TECH TO'S T^T	TOTAL
TR	TECHNICAL REPORT
TRANS	TRANSCEIVER
TRNG	TRAINING
UDL	UNIT DETAIL LISFING UNIT OF EQUIPMENT ULTRA HIGH FREQUENCY UNIT MANNING DOCUMENT
UE	UNIT OF FOUIPMENT
UHF	LI TRA HIGH ERECHENCY
IMD	LINTT MANNING DOCUMENT
UN	
	UNSCHEDULED
USAF	UNITED STATES AIR FORCE
UTE	UTILIZATION
UTIL	UTILIZATION
VHF	UTILIZATION UTILIZATION VERY HIGH FREQUENCY VERTICAL TAKEOFF AND LANDING WORK ACCOMPLISHMENT CODE WORK BREAKDOWN STRUCTURE
VTOL	VERTICAL TAKEOFF AND LANDING
WAC	WORK ACCOMPLISHMENT CODE
WBS	WORK BREAKDOWN STRUCTURE
W/0	WITHOUT
WPAFB	
	WRIGHT PATTERSON AIR FORCE BASE
WRALC	WARNER ROBINS AIR LOGISTICS CENTER
WRM	WAR READINESS MATERIAL
W/S	WEAPON SYSTEM
WT	WEIGHT
WUC	WORK UNIT CODE
YR	YEAR
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APPENDIX A

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DATA SOURCES AND AGENCIES

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# TABLE A-1 DATA SOURCES AND AGENCIES

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				-	QUAITITY COTAINED	
AGENCY	LOCATION	OFFICE SYMBOL(S)/FUNCTION	LITLEN OF LITLENTURE/ DATA FILES	PURI. ISHED HIFORWITION	NECONDS	YEARS
Acquisition Logistics Division	Wright-Patterson AFB, OI	MXA - Studies and Analysis Branch		:	:	•
Aeronautical Systems Division	Vrfght-Patterscn AFB, Oli	10 - History Office ACC - Cost Analysis ACL - Joint AFLC/AFLC LCC Norking Group	Documents Documents, Backfill Reports LCC Studies	۰ · · ·		• • •
Aerospace Daily Ziff Davis Publishing Co.	Nashington, D.C.	•	Aerospace Daily Articles	130 articles		• .
Air Force Wright-Patters Loomand Command Air Force Andrews AFB, M Systems Command Air Force Inspec- Norton AFB, CA tion and Safety Center	Wright-Patterson MrB. OH Andrews AFB, MD Morton AFB, CA	PRCL - Program Requirements ACVMP - Inventory, Status and Performance Branch HO - History Office ACNC - Cost Analysis ACVC - Dept Usage IQLMF - Data Collection Require- IQLMF - Data Collection Require- IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Requirements IQLMA - Data Collection ACCM - Cost Analysis Division ACCM - Cost Analysis Division ACCM - Cost Analysis Division SEFB - C-130 Safety Project Office SER - Accident/Incident Reporting SEDA - Education Office	1-IIAF-A1-110-12 D056E 60338 8-4 C-4 Index, Documents, 1-IIAF-A1-110-12 10368	dd monthly reports 95 monthly reports   5  5 75 75 75	1700 <b>5.9</b> 8.,176 1465 732000 1900 	1970-1976 1971-1976 1971-1976  1962-1959    1962-1976

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TABLE A-1 DATA SOURCES AND AGENCIES (CONT'D)

					QUARTERY OSTATILED	
. AGENCY	LOCATION	OFFICE SYMDOL (S)/FUNCTION	TYPES OF LITERATURE/ DAFA FILES	NOT 121.001111 DURY 1211ED	RECORDS	YEARS
Air Training Command	Sheppard AFB, TX	TFTO - 3785 Field Training Group	001 701 101	5 Listings 29 Reports 29 Documents		1972-1976 Current Current Jaza
		LGMET - Configuration Management TTME - Training Equip. and Design	Config. Records	29 Listings		Current
		TTP - Training Programs Nanagement	Training Course Data File	:	8	+ - }
		ITA - Systems/Rosicient Training TTAB - Technical/Training Resident	• • •	e e 6 t		•••
Air University - Air Comand and Staff College	Haxwell AFB, AL	ALTE - FINANCE UTICE Alt University Library (Index to Military Parlodicals)	Articles from 69 Different Hili- tary and Aero- nutical	(100 + articles)	8 1	1956-1976
Avfation Neek and Space Technology	Hew York, NY	Aviation Neek and Space Technology Reference Library	liniex of Publish- ed Articles	l Index 54 articles		1960-1976
Congressional Information Service inc.	Nashington, D.C.	8	Working Papers of the U.S. Congress		t t	3
thefense Market System (DNS) Inc	Greenwich, CT		Defense Harket- ing Information	6 Listings	8	
Defense Supply Agency (DSA)	Alexandria, VA	DDC (Defense Documentation Center) Referral Data Bank	Data Search Index/Documents	2 Indexes 76 Documents		1962-1976
kngineering Index New York, NY Inc.	ilem York, NY		File Indexes of Citations and Abstracts From Engineering Journals and Selected Govern- ment Documents	Index	:	
frost A Sullivan Inc.	Hew York, NY	-	Defense Contracts Cost Information	1 Listing	:	1960-1975

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. الخت TABLE A-1 DATA SOURCES AND AGENCIES (CONT'D)

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			1	C	QUANTITY ONTAHIED	
AGENICY	LOCATION	OFFICE SYHDOL(S)/FUNCTION	ITTEN OF LITERATURE/ DATA FILLS	PUIL I SUCD	RECORDS	YEARS
lleadquarters USAF	Vashington, D.C.		OSCR C-130E Report	l Report		FY 1975
II. N. NIISON COMPANY	Bronk, NY	Applied Science and Technology Periodicals	Index of Publish ed Periodicals	l Index		8
Logistics Managa- 1 mont institute	Washington, D.C.	Research Agency	LNI Scudies Index and Documents	1 Index 4 Reports	1 1 1 1	1 5
HILILARY AIRLIFE	Scott AFB, IL	ACHF - Economical Analysis and	Training Costs	4	3	1
		ACUED - Alternative Costing Branch LGXA - Logistics Analysis Division	Training Costs Monthly Maint. Digest, MACR 57-2, 65-5, Amorts	66 Mo/Reports 8 Listings	3 <b>4</b> 3 T	Sept. 1975 - June 1976
Hilltary Person- nel Center	Randolph AFB. TX	XPMRT - Hanpower Division	Hanpower Stand- ards, UDL,	2 1	3 8	1 1
		DPHOQ - Division Executive - Benuirseents	Field Training Hanpower Plans	8	E 3	3
		DPHYP - Research Division	Survey Research Requirement	8	4 3	t 1
		DPHDQYS - Requirements Analyst	Hanpower Profile Training Records	1	:	
National Aero- nautics and	Vashington, D.C.	MASA/Scientific and Technical Information Office	Data Search Index and Documents	Inde ·	1	0 J
tration (HASA)		MASA/Directory of Aerospace Safety Specialized Information Sources	Data Search Index and Documents	l Index		5 5
National Techni- cal information Service	Springfleid, VA		Government Research Contract Information	1 Index 1 Document	:	•
Occupational Neasurements Branch (AFHRL)	Lackland AFB. TX	OHY - Occupational Survey Branch OHYA - Occupational Analyst	Survey Reports Survey Task	12 Reports 9 Inventories	::	Current Current
Computational Sciences Div. (Aflikt.)	Lackland AFB. TX	CSD/AFIIRL-SH	Officer Educa- tional Back- ground Summaries			

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TABLE A-1 DATA SOURCES AND AGENCIES (CONT'D)

					QUANTITY CRIAINED	Π
AGENCY	LOCATION	OFFICE SYMBOL(S)/FINCTION	LITTES UP LITTERATURE/ DAIA TILES	NOT TANKINI TON DANE I SHED	RECORDS	YEARS
Oklahoma Air Logistics	Tinker AFB. OK	WEAN - Nuterial Analysis Branch WillA - Engineering & Analysis	0041 fetch 0041. F91A	1 1	1065	1975-1976
Center		Branch HHII - Investment & Replacement Branch	1001	•	•	
Rand Corporation	Santa Kunica, CA	•	Technical Reports	4 Reports	•	•
Rome Air Davelop- ment Center	mont Center mont Center	RADC/Reliability Aualysis Center	Reliability Studies/Analysis Information	•		3
Sacramento Air	McClellan AFB.	Hill - Investment & Replacement	1100	1	1	1
Center	5	ACDCN - Lugistics Systems Section - ACDCG - Commodity Stock Control and Distribution Section	K051 D049	18 Reports		1973-1976
San Antonio Air Logistics	Kelly AFB. TX		6095	•	8	8
Center		Hatik - Requirements Branch	0041	•••		
		MUKCD - Operational Flight Program	6038	1		1
		10 - Ilistory Office	Engine Data	l Report	•	
U.S. Army	Fort Lee, VA	DLSIE (Fefense Logistics Studies	Data Search			8
Logistics Management Center		Inforwation Center) Referral Data Bank	Index and Documents	3 Reports	•	8
<pre>b vruer-Robins A Logistics</pre>	Warner-Robins AFB, GA	HICAAI- Haintenance Data Analysis HisiDA - Engineering & Reliability	K261/K262 D047 (TCTO Data)	8 keports 	11.500	0ct.'73-Jul.'76 1962-1976
Center		Misss - Material Support Branch 110 - History Office MulsCA - Material Support - Data	NUKS Data D20 Reports D041	63 Reports	435 	1968 Nov.'62-Jan.'68
			0032	¢ 1	1	1
		M438 - C-130 System Program Office MAGGPA - Depot Planning Naintenance	AGE TA's 6037 6004	7 Reports 3 Reports 3 Reports	5 J 1 1 8 8	r r r • r v

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# APPENDIX B

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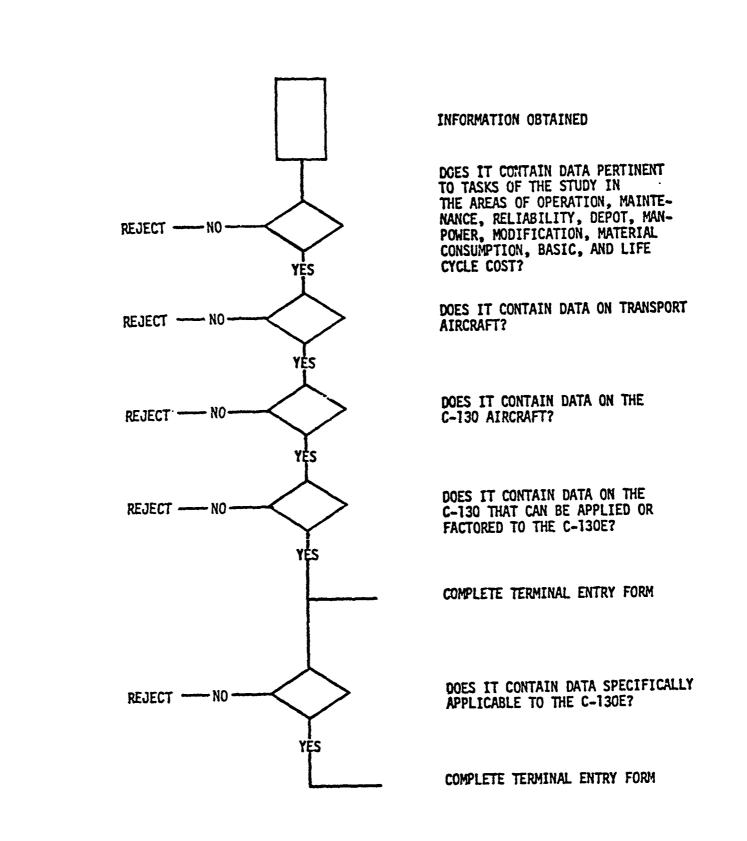
# DATA REVIEW AND TERMINAL ENTRY

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Figure B-1 DATA REVIEW "YES-NO" DECISION PROCESS FLOW

C-1302 H	ISTORY	CDDE
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VALENCE CONTRACTOR CONTRACTOR CONTRACTOR

/DOC SHIST	$\bigcirc$	Maintenance Data	58 FILED (Cont'd)
*ST (Title)	2	Organizational Level	
SPA (Personal Autnor)	3	Intermediate Level Depot Level	
محير بعام القال بالاستركان فتعير بفاعي والاحتاص فالأكبر والبروازي		Vendor	
SEN (Document Number)	4	Manhours	
SP FORM	<u>©</u>	Task Analysis	
Forms	-	Modifications/ICTO	
Tech. Reports		Reliability Data	
Documents		Failure Pates	
Briefs/Papers	1	Failure Distribution	
News Release		Failure Modes	
Maçazine	ł	Cost	
Compùter Tape List		Safety Data	
Card Deck		Accidents/Incidents	
Microfiche		Cost	
Brochure		Cost Data	
Tech. Data		Human Resources	
Bcok		Material Resources	
Logs		Actuals	
Sumary		Estimates	4
*SL (Source)	6		<b>3</b> .
SS THE OF DATA	7	Conceptual	
Human Resources		Validation Development	-
Manpower		Production	
Skill Level		Operation	
Experience Training		SNR (Number Reports)	9
Costs			
Task Analysis		and the second second second second second second second second second second second second second second second	
Material Resources			
Spares		\$CD (Received Date	
Consumable Materie AGE	15 J	?seudo,	
Training Equipment		\$8 <u>FILED</u> 1	13
Test Equipment	-	HWS Master File	
POL		EAC MECCA	
Modifications/TCTO	/	BAC Kent Library	
Kits Costs		BCAC Renton Library	
Operations Data		BAC Military Publication	29
Utilization			*SQ QUALITY OF DATA
Sorties			Source Listing
Landings			Screened Document
Inventory/(No.Acit Turn Around	••)		Useable
-			Not Used
100 275 5			
Aborts Availability			• • • • • • • • • • • •
			SX Address

Figure 3-2 HWSA TERMINAL ENTRY FORM

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# APPENDIX C

DATA PROCESSING FLOWS AND C-130E CHARACTERISTICS/SPECIFICATIONS

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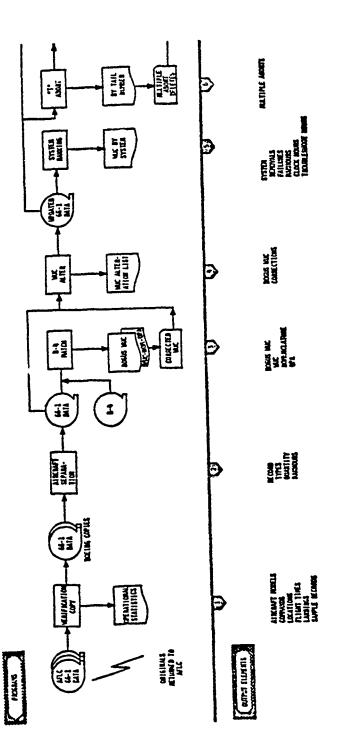
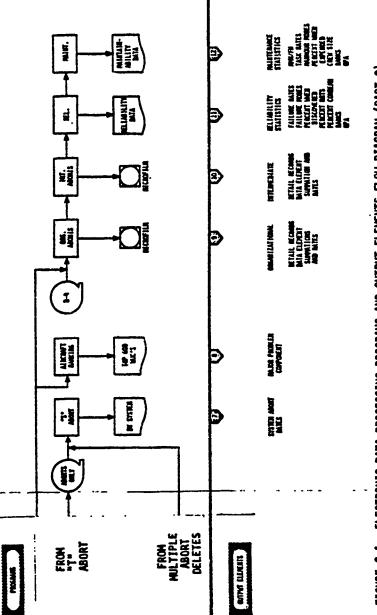


FIGURE C-1 ELECTRONIC DATA PROCESSING PROGRAMS AND OUTPUT ELEMENTS FLOW DIAGRAM (PART 1)

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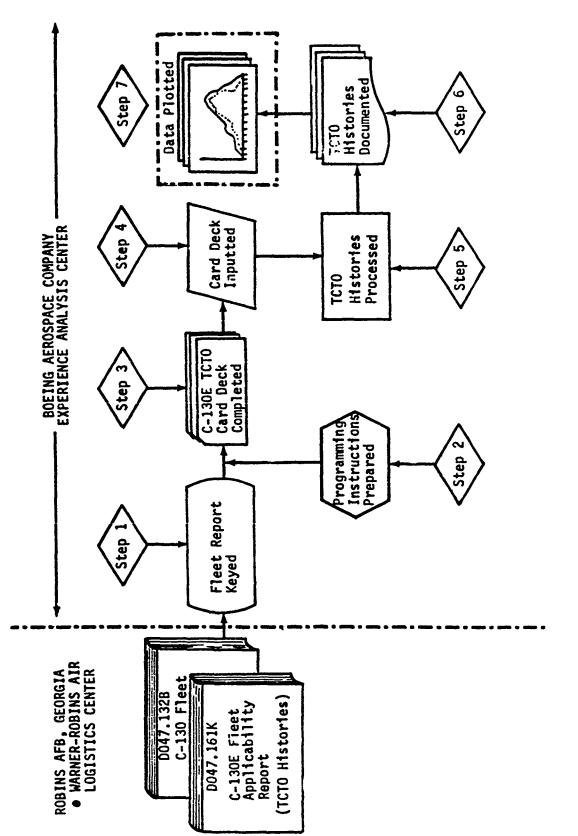
tion we have a subject of

FIGURE C-1 ELECTRONIC DATA PROCESSING PROGRAMS AND OUTPUT ELEMENTS FLOW DIAGRAM (PART 2)

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FIGURE C-2 MECHANIZED TCTO EVALUATION LOGIC FLOW

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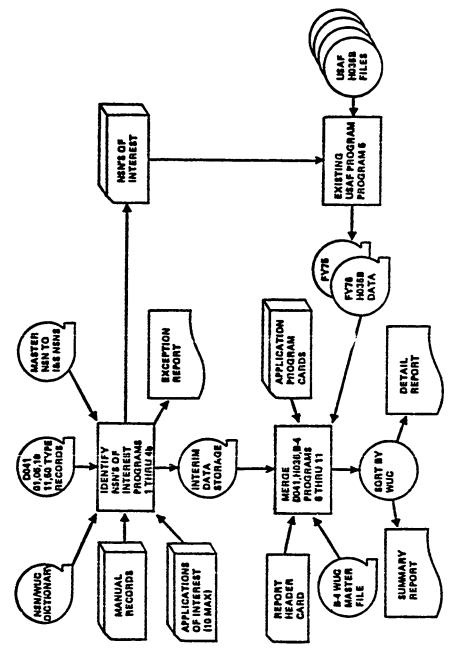
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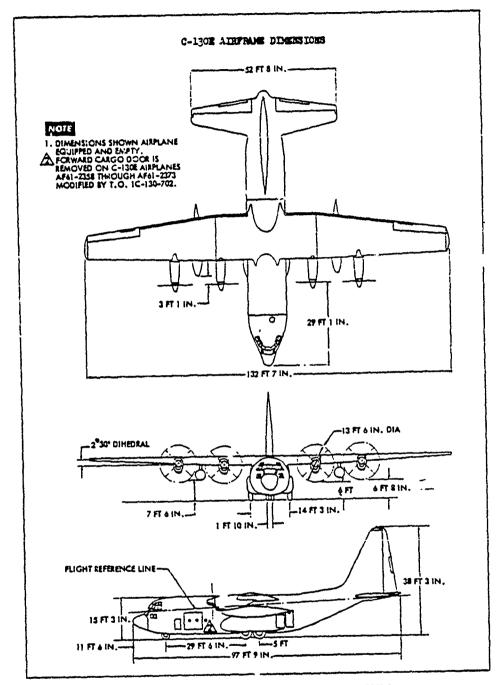


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FIGURE C-4 C-130E THREE VIEW AIRFRAME DIMENSIONS

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	CHA	RACTER	ISTICS	
PERFORMANCE		SPEC	FICATIONS	
TAKE-OFF (Std. Day, SL. No 1 505 Flags, Max. Pur., Max. Effor		WEIGHT		
Maximum Weight Recommended Ground Roll	155,000 16.	Nextmin Gros Empty		155,000 Tb. 71,500 Tb.
With Jaco No Jaco	2,300 ft. 2,400 ft.	Emergency Va	r Planning (EMP) Y	175,000 16.
MAXIMUM SPEED Aceres. 324 SERVICE CEILING (100 f.p.m.)		Hex, Interna Hex, Externa	1	7,000 gal. 2,800 gal.
RANGE 2-3,000 mt.	1	PROPULSION		
LANDING (Pros. Reverse & Hax		Four T-56-A-	7 Allison Trubopi	rops with
Typical Weight Ground Roll/from 50'	75,000 lb. 1,250/2,270 103 Knots	Prop Reverse Hex1mm 4,30		
Touchdown Speed Seurce Unclassified SAC Therts	103 KNOCK	ELECTRICAL P	OWER	
		No. Generato Rating (KYA)		4/1 40/20
FLIGHT SURFA	CES	Ortys Energency		Engine/ATH Battery
AREAS (sq. ft.)		HYDRAULIC PC		
Wings Flaps	1,745	No. Putes	JACA	4/1
Yert. Fin	300	Drive		Engine/Elect
Heriz. Stab. Rudder/Elevator	545 75/155	Rating (gpm)	<b>ef.</b>	30/Unit.
		AN/AIC- 13	AVIONICS	
CHORD LENGTHS (Inches)		AN/AIC- 18A	INTERCOM, PUBLI	
Wine Root	192	AN/APN- 22 AN/APN- 598	RADAR ALTINETED RADAR, SEARCH	R (SCHE A/C)
Ming Tip	100	AN/APR- 70/7CE	RADAR, LORAN N	IV.
Stab. Rest Stab. Tip	144*	AR/APR-133 AR/APR-147	RADAR ALTINETE	
	~	AN/APR-150	RADAR, DOPPLER RACAR ALTINETED	(SOME A/C)
WING DATA		AN/APH-159A	STATIONKEEPER,	INTRAFORMATIO
Angle of Incidence	0 <sup>0</sup> -3 <sup>0</sup> 0 <sup>6</sup> 2.5 <sup>0</sup>	AN/APH-171	POSITIONING SET RAGAR ALTIMETER	r (sche A/c)
Angle of Sweep Angle of Dihedrel	0° -	AN/API- 72	IFF SYSTEM, AT	**
Angle of Dimetrici Aspect Ratio	10.05	ANYARA- 25	NAVIGATION, AD	F (TAC ORLY)
		AR/ARC- 34 AR/ARR- 6		۹.
		AN/AN- 14	NAVIGATION, RAI NAVIGATION, CM	
		AN/ARH- 21	- HAVIGATICH, TAG	, AR
PRODUCTION		AR/ARI- 67	NAVIGATICR, GL	ICE SLOPE
		AN/ARN- 97 AN/ART- 31	NAVIGATION, IL: RADIO, ENERGEN	5 (ALAK 57 (OR AN/CHT-
COST Average unit flyeway per 2.0 million	aircraft	AR/ASH- 35	CONFUTER, DOFFI	- R
DATE OF INTRODUCTION A		AN/ASO- 14	PRESSURIZATION	SYS, RACAR
NO. MANUFACTURED 403		AN/CRT- 3 AN/UNC- 10	PERSCHNEL LOCA	TOR BEACON
		10.0007. 22	(SOME A/C)	~
	O Madels Still	AN/URT- 21 AN/URT- 26(Y)	NADIO, EMERGEN NADIO, EMERGEN	
In Product		COLLINS SIV-4		EIVER (SOME AV
"Estimated From Drawings		E- 4	AUTOPILOT	
}		FH-422A HF-1CZ	WHF-FN RADIO (: RADIO, HF COM	NUME A/C]
		508-718	RADAR ALTINETE	(OR AN/APT-13
		STO AF PDS	FLIGHT DIRECTO	R SYSTER
5		YNF-101 512- 3/4	NADIO, YHF COM NAV. MARKER C	
		1 2770-3/4	HAT. WALLS C	۹.

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FIGURE C-5 C-130E CHARACTERISTICS

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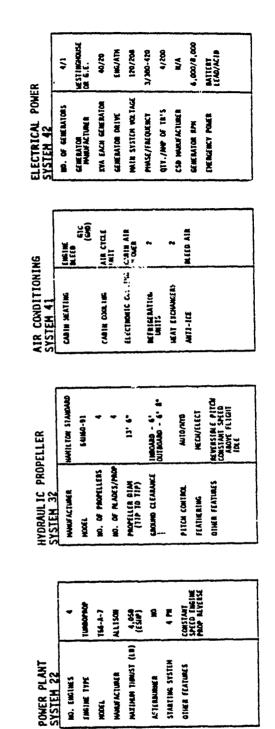
C. Tree States

SYSTEM 14 SYSTEM 14 MUDICA LICVATORS ALLEADIS ALLEADIS FLADS LEFTE EVERENCY FLADS TRUN SPOLLERS SPOLLERS		Innu/aut	IND/INI	INAL/SLA	NONE/MID	MMM	12313	¥	HONE	
	FLIGHT CONTROL!	RUDOCA	ELEVATORS	AILENDIS	RAPS LE/TE	ENEMACINCY FLAPS	TRIM	SPEED DALES	SPOILERS	

	•	~	20 1 20	22	X	116	115	155,000	136,600	12.5 X 16	3	
LANDING GEAR SYSTEM 13	ND. MAIN MEELS	ND. NOSE TAKELS	MIN COM SITE	WIN CON NY	MIN CEAR MESS.	CITAL SACEN	LAUDING SPEED	TALLOFF NE LOIT	LAUDING NE IGHT	NOCE GEM SIZE	LICE DEAR MESS.	

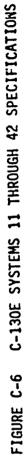
MPARTHENTS	11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5		St 45 St 45 Art Art Art Art Art	1,150 cu.ft. 3,680 cu.ft. 3,690 cu.ft.	41. 9.	DUM MAIL CARGO MANNA ING KIT
COCKPIT & FUSE, COMPARTMENTS SYSTEM 12	FUSELAGE NIDIN (MAL) NE (CAIT (MAL) LEMGIN CAEN ENTANCE MODE	HE TELL ABOVE END PAUATROOP DOORS NAVE & DOOR OFFILING	3	STOWICE SPACE (CLARG) Above Cargo Floor Alove Rund	CARCO COMMINENT IN LGAT HIDTN	AIRDROP SYSTEM

	<b>X</b> E2	422	482	•	-	2	PACSUMIZED CURED	341,11 011,5 513,0 011,5 811
AIRFRANC SYSTEN 11	MAJON SKIN MITERIALS	MAJOR STRUCTURAL IMTERIALS	NO. OF ENTRY AND ACCESS COORS ON PANELS	ND. OF CANNY 165	NO. OF WINDSWIELD PIECES	NO. OF BTIER WINDOWS	CANCO SOORS	VC QUEST 105 (FU) AGE MEMEST 105 (FU)



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4 DOTES S II **3** 1. g 2 ELECTIONICS EQUIMENT LOCATION APERATINA PRESSURE (PSI) SYSTEM RESIGNATION RURATION (MP) AT 25,000 FT. NOWNL, MSK DMLT AUTH LARY DIVIER SUPPLY LAL CUMUTY (LITERS) AUTOPILOT SYSTEM 52 OXYGEN System 47 6,000 Int. 27,400 Fat. 16-24 Int. 28-46 Ext. CAVENCE (1) 5,000 8.2 act ELECT/S NUP CULATITY (LF HR) THE CUACITY (LA/HR) MX. INT. NEL (LAL) MI. (11. P.U. (M.) DAIVE/PAESSURE (PSI) HORIZONIAL SITUATION THD. (HSI) ANGLE OF ATTACK IND. INSTRUMENTS SYSTEM 51 and 12006 .cm FUEL SYSTEH 46 AUP PIESSUR DTIER PUNDS THP RIN AUX. ELECT. EM. ELECT 83 1,000 **900'** MISCELLANEOUS UTILITIES SYSTEM 49 (CONT) 3,60 **BODSTER** VILITY ENDINE ELECT 2/36 HYDRAULIC/PHEUMATIC SYSTEM II DESIGNATION OPERATING PRESS (PSI) ASJISICO TAKEOFE SYS SYSTEM & DESIGNATION OTHER SYSTEMS INCLUDED IN RATES ND. NUPS/CUALITY (GHI) ND. NUMS/CUPACITY OPERATING PRESS (PSI) OPERATING PAESS (PSI) THP MINE LOCATED PLAP DRIVE PARE SONCE (MA) PILOT & CONTOT ESSENTIA, AC INTIAL (15415 - ENGINE INSTALLES - ENGINE INSTALLES - ENGINE INC. 115. ESSENTIAL AC - PILOTE INC. 115. ESSENTIAL AC - PILOTE INC. 115. ESSENTIAL AC - PILOTE INC. 115. ENDINE PILOT COPILOT MAVICATOR RLT ENCINER CARCO CONP. MISC. ESSENTIAL PC MAIK DC 101 S100 MISCELLANEOUS UTILITIES SYSTEM 49 ALMACE A ETT.ATCM LEATS LOCATION LEATS TATT TATT-COLLISION LANCING LANCING LANCING LANCING FOUR SOURCE (MUS) IQUEL EACULITES CUENIZAL TOLLETS WINNUS NTERIOR LIGHTS LOCATION LIGHTING SYSTEM 44 ed I CATION

N-1 AND N-2 COMPASS PITCH RADIO KAY. SYSTEMS INCLUDED IN BATES OTHER FEATURES INTERCONNECTS 3/SETTART 2 UNDER IQN NI 2 5 ~ CENTRAL AIR DATA COMPUTER HEADING IND. GYNO/MGH. A TIMETER (BARONETRIC) VERTICAL MELOCITY IND. ATTITUDE 100./(ADI) ATRSMEED/WCH THD. TUNE & S. P. SHO. AF STANDAND FLT. DIRECTOR SYSTEM ACCELENDIETER CLOCK/OTHERS ELECTRICAL FILOT E COPILOT VINOSHIELD WALK DC (4 TO A SIDE) MOUNTED ETT. ON MOUNTED ETT. ON AIR DEFLECIORS 1000 LES EACH OLICENTER ATO CONTROL PAURI SIMUTAMOUS SIMUTAMOUS FIRED JETTISON CAPABILITY PORER SOURCE (BUS) VIMOSIIELE VIPERS OPERATED DOPERATED TRUST CONTROL OPERATED FROM 4 ING. MATILES GTC/ANU COM. 19 La/MOTTI C I RLT STAT. N1. FIAES 2 LINE CB 7 D. MON-PONTANLE (MUILT IN SYSTEM MUMER OF BOTTLES CONNECTED TO EIRE FYLIHOUISHEE SYS PORTAKE PURPOSE TYPE MANNES LOCATION AGENT

FIGURE C-7 C-130E SYSTEMS 44 THROUGH 52 SPECIFXCATIONS

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UNE COMUNICATION SYSTEM 63 \*\*\*\* no.

ARC-34 M

NEC.-TRANSNITTER LOCATION ANTENNA LOCATION

SUPPORT AND ADDRESS AND ADDRESS TO ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDR

	MW-101	nt. sta. Lice	NOTTON OF	~	-	
VHF COMMUNICATION SYSTEM 62	W. NESIGNATION	NECTRANSMITTER LOCATION	ATTENNA LOCATION	ND. OF NEC./TIMISHITTERS	ND. OF CONTROL UNITS	

CABIN CLEG. RACE TOP AND NOTION FUSE.

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ID. OF REC.-TRUNSNIFFERS (ID. OF CONTING. UNITS CAULA ALLA

(200, AIR SOUNCE INESSURIZED

TE S

	W-102	CANED CONF.	VILLE ADOVE FUSELAGE	•	~	SSA CA AN	
HF COMMUNICATION SYSTEM 61	WILLYNDISJN .W.	ALCTAMENITIEN LOCATION	AITENNA LOCATION	NO. OF MC./TRANSMITTERS	NO. OF CONTINUE LINETS	NDE	

MALF ANAL. & REC. EQUIP. SYSTEM 55	LIFE MISTORY RECORDER SYSTEM NE U-562/A	PACALCY LIFE EXPEC- TANCY OF ALMENNE IN SUPPORT OF ALMENNE IN STRUCTURAL INTEGRITY PAGGAM	NECONDER - CAMPRIDUE CLANACITY - 15 JOUNS, CONVERIER - MALTIM IER, VARIOUS ATRACOME SCHEOMS	AIRSPEE MONUL ACCLERATION MONUL ACCLERATION CONTROL SUBJACE POSI- CIDINS CALIN PRESSURTATION PTECH & TAN MALES STATIN AT VARIOUS	AC PAR TO ACCWIN AC
WALF ANAL.	METAIN22	Journ	CONFORCERTS	PARAMETERS MCN1104EB	PAR SOURCES (BUS)

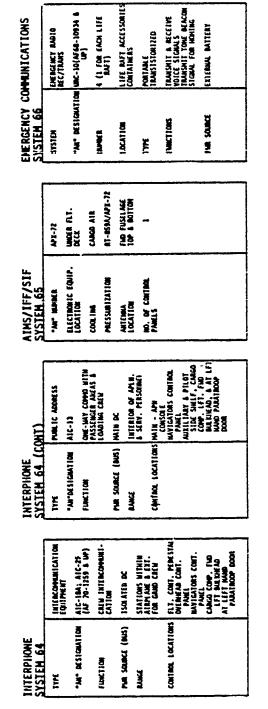


FIGURE C-8 C-130E SYSTEMS 55 THROUGH 66 SPECIFICATIONS

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SCI-718 CM AV/APN-133 UMOGN FLT.DECK APN-598 CR APQ-122 LOKE MOSE CR M.6 MREL WELL AMI-117 ASII-35 FND FUSELAGE APH-160 OR APH-171 MID FUSELAGE APR-76/708 LORUE CABIN AN-169 ă RADAR NAVIGATION SYSTEM 72 ANDIO/RADAR ALTINETER. STATION RECEINS (SKE) HIGH RANGE ALTINETER DOPN.CA LUDUR RADAR NEACON SEARCH RADAR DTHER AM-21 CABIN UNDER FLIGHT DECK ANI-67 CABIN OR 61V4 ANI-14 ATT FUSELAGE ARN-9) HOSE ANDHE 512-2 M.G. MELL MELL ANN-6 M.G. RADIO NAVIGATION SYSTEM ZL DINECTION FINDER MARCE BEACON TACAN SYSTEM GLIDE SLOPE SHU-ING ILS TAM ALA-25 (TO AFE-(1094)) ALA-50 (AFE-ALA-50 (AFE-MISC. COMMUNICATIONS EQUIP. SYSTEM 69 ARA-25 - NATH DC ARA-66 - NATH DC - MATH DC BINCTICK FINDER NONING ON LINE TRANSHIFTER FEDESTAL LINE OF STORT CONTINOL POLER SOLACE (PUS) AIT RESIGNATION LOCATION OF function **PUIGE** MI MIN. 48 NEST 2 EA. CHARGEARLE BATTERIES SUITCA AT CPI PAN. SUITCA AT CPI PAN. FEANCIANE SUITCAES FEA.-INDE MIELL RELL FAININGS FEAL AND MUELL FEAL METLE FEAL METLE FOR MALEN INVERSI OMI-DIRECTIONAL RADIO REACON DISTRESS SIGNAL TOP PORTION OF EMERGENCY COMMUNICATIONS SYSTEM 66 (CONT) CAASH POSITION INDICATON (CP1) (A) NZ-1301 TRANSMISSION LENGTH PONER ACTIVITIO BY WILLIAN STATEMATION TRANSMISSION LOCATION **NJISAS** 

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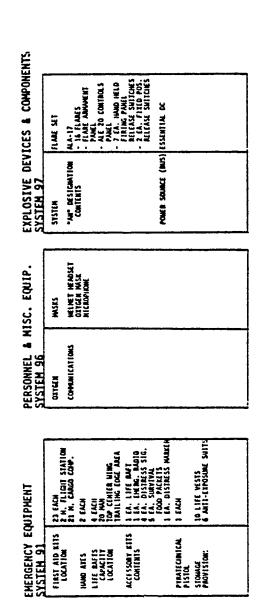


FIGURE C-9 C-130E SYSTEMS 66 (CONT) THROUGH 97 SPECIFICATIONS

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The process for estimating the missing data, based on the foregoing assumptions, was as follows:

a. A data manipulation computer program was used to generate scattergrams of each variable in a data-set of interest (such as expenditure of maintenance manhours by aircraft WUC) as a function of every other variable in the data-set and as a function of six key operational parameters for which a complete 15 year history was available. Approximately 7,000 scattergram plots were generated and reviewed for this analysis.

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- b. The scattergrams were examined and all possible straight line relationships retained for further analysis.
- c. These candidate variable combinations were then tested by regression analysis to determine their strengths of correlation and the equations for their least squares regression lines.
- d. For each variable in the data-set being analyzed, a "best" relationship was chosen based on the following priority criteria:

- (1) Strongest correlation with a primary relationship to one of the key operational parameters.
- (2) If no reasonable primary relationship could be found, then the most highly correlated secondary relationship to some other support resource parameter which did have a strong primary relationship with an operational parameter.
- (3) If neither of the above criteria could be met, then the best tertiary relationship was selected. This was necessary in only a few of the data cases examined and it was not necessary to go to higher order relationships.
- e. After the "best" relationship was selected for each variable of interest, its regression line was plotted as a function of the appropriate independent variable (operational parameter or related support resource parameter) and the missing years'values estimated by entering the regression with the independent variable values corresponding to the missing years and picking off the estimated dependent values.
- f. The estimated dependent values of the various support resource parameters were then used to fill the appropriate data voids in the historical record.

Figure C-10 illustrates the above process through the data tables and graphs used at successive stages.

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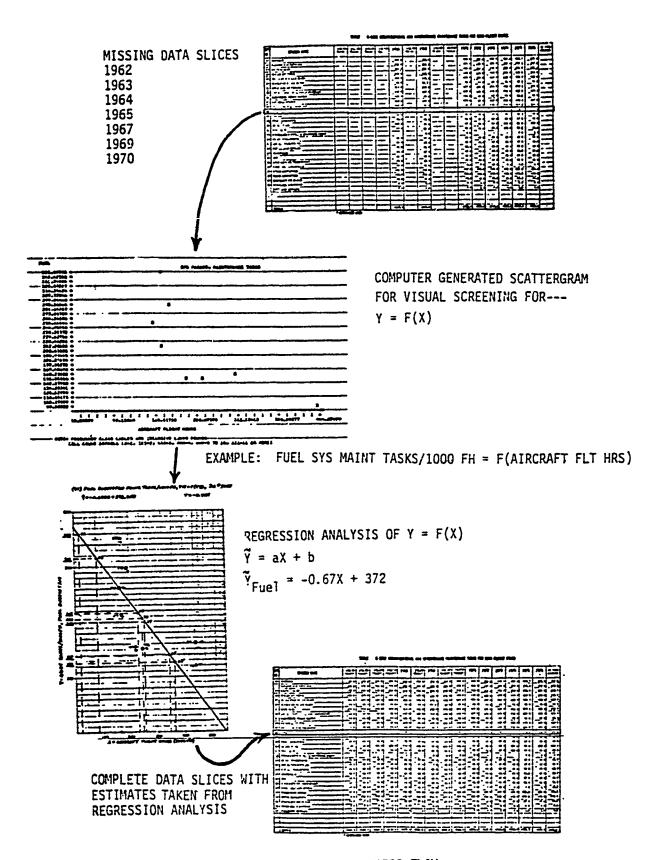


Figure C-10 DATA NORMALIZATION PROCESS FLOW

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# APPENDIX D

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# MAINTENANCE STATISTICS

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SYS SYSTEM HAVE	1962*	1965•	1064	1965•	1166	•7961	1963•	•696T	1970	1/61	•:2/6I	•¿761	1974°	• 5761	9761	IN NUM
CACUND HANDLING SERVICING & RELATER TASKS		214.4	6780.1	2017.5	9,450	1596.6	1970.9	t'otte	3.2%	2.1916	4241.2	5104.5	\$1226.0	1.4/12	6407.1	1.42.6
AINCRAFT CLEANING	IJ		1.001	162.2	14.4	C.C31		51212		1.14	21.5	6.1.0			10.1	479.4
I DOK MINSE OF SCINEDIALED INSPECTION	m	2445.0	6152.8	0.0945		4220.7				2571.0	4112.2			4143.2	1563.2	4362.7
·	De	620.9				t, tột				219.9	487.2				1370.4	436.1
PRESERVATION. DEPRESERVATION. & STORAGE	813		1			•				•	•	•		'	2.2	<b>.</b>
		•	•		•	.			:	ŀ	•	•		; ; ;	·	•
PALPARATION & WINICHANCE OF SECONDS		102.1	266.6	8.4	1.2			129.7	1.3	10.6	180.9	1.012	259.1	1~	274.6	191.1
06 NOT APPA ICAME	114		•			!	•		1	.				1		
	2	0.5	4520.0	29.6	13	16.9	28.1	95.2	110 0	220.6	0.510	0.026	503	2041.6	1.111	11.2
for <b>k</b> s		10715.9	· .	3	ŝ	6.0.9	C./UI	ā	87.	6904.7	1~	11679.1	10	-	12982.1	1.26001
	TAME	C-130E	HECCHI	DISTRIBUT	ON OF OR	- 3	W AND I	. <b>*</b>				CE HUNHON	10 S M			11 16 46
GAURHO ILANN ING SERVICING & RELATED TASKS		10.65		29. 20	39'71	22.22	27.61	37.12	41.22		11.14	į –	11.75	11 14	10.01	35.56
D2 AIRCRAFT CLEANING	374	•	6 9		tc.n	3.9		6.95	1.29	6.06	6:.7	1.27		2.05	7.29	3
_	YIK:		31.24	47.35	67.12	65.77	61.74	40.24		37.22	40.10	35.27	29.05	20 05	21.37	43.22
	91	6.79	2.16	4.94	4.15	3.17	2.61	. 10	(6.2	1.63	II.		5.3	7.48	10.56	.a.
			•	•	•		•	•		•		•		:.	0.02	ŀ
ARMING AND DISAMMING	ני	•	•	•		•	•	•		•	•	ļ '	•	•		· •
		·	1.1	1.17	C.64	0.89	11.1	1.65	1.2	1.69	-	1	1.01	1.70	2.12	3
	LYO	•	•	•	•	•	•	•	•		•				:	•
		0.46	11.11		0.12	0.26	0.39	1.14	1.99	. 19	0.1	7.16	14.28	100	3	1.25
1014 \$			8	2	8	8	8.8	¦۲	¦≊	100.00	100.00	8.8	-	18.8	8	100.00
	-	IANE	C-1306 08	I TATING	DAL MO	INTERNEDIA	ATE SUPPORT			HCE NUMB	RS PER SO	SORTIE	ê .			12 TEAR
OI GARMAN INWA ING SERVICING & RELATED YASKS		1		1.14		a. 4	1.72	8	1.18		11 00	11.11	17.39	16.85	21.0	
_				2.03	2.2	1.2	3	1.10	1:27		2.02	2.23	2.98	2.89	3.5	1.7
03 1 DOK MUSE OF SCHECKAED INSPECTION	 	19	121	2.10	6.07	12.20	2.1	B.04	8		11.40	10.01	12.10	11.68	1 (1	10.99
_	N EL	1 741 1	 	-	-	0.69	2.0	9.9	0.62	•	1.1	1.68	2.48	1.07	•	1.2
-		1			•	•	•	•	•	•	•	•			10.0	0.0
	1 30	201	101	•	•	1	•	•	•	•	•	•			•	•
-		10	<u>ا</u> ت ا	0.3	?	0.16	0.15	0.24	8		3	. 0.67	0.75	0.71	1.1	о И
-	1 22 -	1 22	VĮ.		•	•		•		•	-	•		•	•	
	194	: 10:	ra		6.0	0.02	0.0	0.1	0.35	9.0	1.6	2.19	6.9	5.2	4.2	1.16
101A §				29.02	- 26.63	3.1	11.6	15.01	27.12	1.61	1.12	8.65	41.65	40° M	10.01	27.20
	-				-								-			

TABLE D-1 C-130E ORGANIZATIONAL AND INTERVEDIATE SUPPORT GENERAL MAINTERANCE MANIQUES FER 1000 FLIGHT HOURS

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SYS SYSTEM INVE	1962•	1963•	1961-	1965•	1966	1967•	5961	1969	•0/61	1/61	1972	57 <u>61</u>	19/4	2/61 2/01	9/6t	15 TEAE AVENCE
<u>.</u>	1250.0	1205.0	1434.0	2090.0	1919.2	9.041	1.44	0.044	9.040	116.2	H1.2	6.1151	1605.5	1511.2	1762.2	1157.
12 CICEPH AID FUSTIAGE	615.0	46.9	3.92.6	650.0	159.2	480.0	1.060	260.0	9.94C	3.946	1787	112.2	1.121	8	127.2	2
-	1406.0	765.0	735.7		2,2/2	900.0	941.0	715.0	670.0	1189	C.422	1.128		58.1	123	22
I I ICALL CONTRACES	670.0	470.0		710.0	216.6	\$00.0	395.5	355.0	355.0	1.10	2,226	21212	\$79.2	15.9	421.6	16.1
I TUKUG PRIVE PAVER PLANT	1900.0	1460.0			1594.3	1520.0	1136.8	1200.0	1200.0	1615.4	1078.2	1229.5	-	Ť,	1/0.2	
ANTI TART TO: A R ANT	364.0	200.0	205.6	i	206.2	234.0	200.6	166.0	174.0	140.6	115.4	166.2			C.601	194
INVERSE IC PPULLICE	1640.0	940.0		i –	1178.7	10.06.01	1105.7	0.064	810.0	812.7	715.6	814.7	6.04.6		9.916	
ALR CONDITIONING, I'RESSURIZATION	6.0.0	417.0		i	366.3	411.0	518.0	412.0	404.0	420.3	1.616	9.176	i			1
ELECTRICAL POWER SUPPLY	420.0	228.0	1	254	291.1	276.0	237.2	224.0	212.0	102.2	132.2	182.9			264.3	241
1 1 1401 Pug Srs161	216.0	1		ŧ	102.4	191.0	210.7	172.0	168.0	151.2	120.5	161.3	ł.	ł	212.0	172.
11 TURALE OF PETENALIC	655.0	342.0		0.626	349.6	X60.0	459.0	315.0	327.0	325.1	245.1	309.60	(0) 1		1.00	.215.1
_	1160.0	i i	!	645.0	872.6	1170.0	10/7.5	907.0	970.0	916.7	9.161	1030.0		965 1	12.0.0	979.0
47 01764 N	109.0	74.0	28.2	78.0	19.2	12.5	1.10	72.0	69.5	0.10	\$5.9	63.68	0 (3	6.9.9	10°	74.4
	200.5	125.5	130.9	132.0	101.6	10.5	112.2	120.0		89.5	19.6	114.4	152.4	[	167.7	125.7
_	932.0	0.260	612.4	445.0	697.3	517.0	219.6	342.0	305.0	160.5	191.6	213.4	225.6		192.0	376.5
_	296.0	225.0	164.6	198.0	1.11	297.0	259. 1	229.0	237.0	1.705	204.9	246.9	265.1	232 0	215.2	202
-	0.0	0.0	:. ;	0.0		0.7	1.1	1.5			•	•	•	1.)		
	0.606	0.14.0	111.8	184.0	296.0	195.0	163.9	162.0	154.0		86.5	2.1	110 9	122.4	134.0	154.4
VIII LOTENDIICA+115	120.0	1.12	S.B.S	61.0	8).6	70.8	65.5	52.5	48.5	48.7	Â		44.4	60.2	19.95	55.5
	405.0	245.0	170.8	259.0	271.2	0.B/S	306.6	232.0	222.0	236.7	10.5	198.9	211.2		215.9	21.4
linte schuldut.	56 0	76.5	121.2	164.0	204.4	170.5	1.401	111.0	1.00 5	0.101	10.5	110.7	10	····	19.2	6 201
-	0.0	0 0	15.4	10.5	241.8	192.5	185.2	112.0	102.5	10.2	2.7	29.62	45.4	0.13	60.0	110 5
66 LIU KGURY COLONICALIUS	0 0	00	13.6	12.2	22.6	ж. Я	35.8	1.6	51.5	55.3	70.2	0.61	95.0	1.1	112.0	3
inter, to annite at house	0.66	[C.U.]	19.1	15.4	21.9	18.6	11.9	111	1			17	5.6	1.1	9.4	12.5
	0 22	340.0	323.0	0.516	545.5	408 0	481.8	41.0	462.0	487.1	394.6	N.	11.)	401.0	561.2	410.1
12 KANAR RAVIGATION	640.0	645.0	1.103	715.0	851.1	860.0	1054.3	953.0	995.0	1263.6	B42.0	601.1	957.6	1017.6	8.9918	\$ 5/8
91 HR RACING Y HADLEP III 10	160.0	Č 83.5	81.7	90.00	51.9	2.99.2	100.1	[c."	72.5	6.13	51.4	6.29	69.4	57.8	5.6.2	78.6
96 PLANDING EQUILIBIA	110	1.0	9.6	0.2	•	0.2	~.	0.3	0.3	0.2	0.2	0.1	1.0	0.2	•	1.2
9) I XHI WALLS	6.0	1.2		1.1	•	2.2	1.11	2.8		:	1.1	3.5			4.2	2.8
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		1.1.0														

TABLE D-2 C-13GE ORGANIZATIONAL AND INTERMEDIATE SYSTEM MAINTENANCE MANIOURS FER 1000 FLIGHT HOURS

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TABLE D-3 C-1300 percent distribution of organizational and intermediate system maintenance manages

SYSTEM HAVE	1962•	1963•	1964	1965	1966	1967	1963	•6361	0/61	1	2/61	C/61	13/4		9/61 -	AWENG
ALEFRUE		12.87	1.1	16.96	15.0	11.2	1.4	2.16	12.2	2.4	10.4	111	14.2	21.11	1.11	11.71
15 FACTORE AND HIGH ALS				5.28	5	2.9.2	1.5	3,75	37.1		6.1	4.1	5.2	2.6	13	1-1-
	101.6	1.55	~	6 65	9.7	7. 16	-	7.44	1.01	6.8	"	1.9	1.1	12.2	<u> </u>	<u>8</u> .9
tal future Contexes		4.64	0		5	18	3.6	9,6	1,1	(1)	4	5.9	1,9	2.2		취
		14 40				2	12.8	12.41	12 54	1.51	11.1	11.4	11.0	14.34	14.5	11.94
ומאחת גאלה גנאא ביצאו			1312			1	1						1.6			1.63
AUXILIAST PORT PLANT	R		2.1	1.1	, i i				¥] :							2
HTHRAUE IC PRUSSIES	10.71	2.	512						2	:	•		•			
	1.51	÷	1.8	1.47	2.8	29.5	4.6	1.29	11.1	2.4	3	-	<u>;</u>	3.05		
42 ELECTRICAL PUMER SUPPLY	2.14	2.35	1	2.06	2.2	2.26	2.0		2.22	•		~		2.15	~	2.2
	1.61	1.75		-	1.4	1.58	2.0	1.79	1.76	1.2	1.5		-	オー	4	
Contraction of the publication of the second s	76.2		2.0	2.86	2.7	1.01	•	1.49	1.5	1.2	9.0		3.5	<u>55</u> £		
-		8.50	1		<b>^</b>	12. 42		1.1	10 11	9.1	9.6	:: :	11.7	÷	10.2	8 •i
		0.0				0 67	ł	L. 15		6.0	0.)	6	0.)	0.65	0.7	0.2
		121			0	1.16	1.0	1.25		0.9	1.0	2.1	12	1 22	-	-
45 MISC, WILLING										-		1	0	1 89		151
Instart its		À					i		3			-  -				
12 AUI0PH 01	1.9	2.23	1.1	1.1	• • •	0		R	5 - 5	~	2		1.2	1.7		-
55 HUIDICITOR /R/L & SCORDING (CUIP	8. 8	8	•	8.0	9.0	0.01	0.0	0.0	0.02	Ì	•	•	•1	0 02	3 	5 : 9   •
	2.02	1.12	1.1	1 53	2.3	1.59	1.5	1.69	1.62	6.0	-	0.1	3.1	1.21	-	-
	0.76	0.57	0.6	0.61	0.6	0.58	0.6	0.55	0.51	0.5	0.5	•	0.4	61.0	- -	3 0
and the commitantias	2.64	2.42	12	2.10	2.1	2.27	1.1	2.41	2.2	2.4	~~	2.2	0.1	1.98	2	
_	10.37	0.75			1.6	1.3	1.2	1.39	1.1	1.1	-	1.2	0.9	14 0	0.7	52 -
	0,00	0.0	0.8	1	6.1	1.57	1	1.1	1.07	1.1	0.4		0.4	0.50	0.5	а. -
_	0.60	0.0	0.1	0.10	0.2	0.25		0.51	0.60	0.5	0.0	0.9	9.6		6 0	0.42
_		0.13	0.2	1	0.2	0.15	1.0	0.12	0.10	1.0		5		0.04	0.0	0.12
	12	1.15	ſ	1	-	1.1	1	4.61	. 85	6.4	6.9	1.1			+	3.6
	4, Iu	6.76	7.0	6.29	5.5	1.0.1	9.6	6.6	10.41	12.6	10.4	9.9		10.22	6.4	8.19
al twoces v trutting	1.04	1.	0.0	12.0	10	0.81			0.76	0.6	0.6	0.7	0.0	0.57	0.3	0.74
	0.0	0.0	1.0	10.0	0.0	8	0.0		; đ	0.0	0.0	0.0	0.0	8	•	ø
97 1 1 1 1 0 1 VI CU S		ł	0.0	0.01	0.0	0.02	1.0	0.0	10.0	0.1	•••	0		0.01	0.0	(0°.)
_												;		,	ł	ł
			İ				•	i		i				1		;
	Ì		1		1	!		Ì		!	1	-	1		i	1
Tuttar C	100 001	100,001	100.0	100.001	100.0	100,001	0.001	8.81	00.00	<u>a</u> .8	0.00	3 8	0.00	8	0.001	8

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				1368	1966 1967• 1968	1966 1967• 1968	1966 1967• 1968	1965 1966 1967 1968
		1.632	-01	- 111015	- 111015	- 4.1. 1519.2. 0.8.	- 4.1. 1519.2. 0.8.	- 4.1. 1519.2. 0.8.
1.5	10-2-1-1	109918-	- 776	- 7.9	- 776	- 7.9	-1.9 -1.35/2	-1.9 -1.35/2
610	17	60/910	9.0	1,4150 0.0	1,4150 0.0	1.01110	1.01110	1.01110
		2.2660	2.2	- 1.3 H59C.1	- 1.3 H59C.1	- 4, 1978 - 2, 2	6600	6600
6·3	15	0. 1515	10.1	- 6.6761 - 0.4 -	1.2 0.6/61	1.2 0.6/61	1.2 0.6/61	1.2 0.6/61
1.8		1.6622		-11.5 1041.5-	1.2 101.1.2 9.1	- 1.2 1001.5 9.1	1.2 101.1.2 9.1	1.2 101.1.2 9.1
6.0	11 0.2838	0.2787	- Ji-1	1.28691.0	1.5 1.2001	1.5 1.2001	1.5 1.2001	1.5 1.2001
0.4	11 0.4113	0.42	0.5	0. 7976 0.5	1.2 0.7976 0.5	1.2 0.7976 0.5	1.2 0.7976 0.5	1.2 0.7976 0.5
0.1		0.3251	0.4	0.5578 0.4	2 8 0.5578 0.4	2 8 0.5578 0.4	2 8 0.5578 0.4	2 8 0.5578 0.4
<b>.</b>		0.6111	0.9		1.4 1.0615 0.9	1.4 1.0615 0.9	1.4 1.0615 0.9	1.6215 1.4 1.0615 0.9
2.0		2.1	- 2:0	4.2483	3.4 4.2483 2.0	3.4 4.2483 2.0	2.7929 3.4 4.2481 2.0	2.7929 3.4 4.2481 2.0
0.2			6.9	0.2384 0.3	0.2 0.2384 0.3	0.2 0.2384 0.3	C.0 MALE 0.2 0.716C 0	C.0 1912 0.2 0.2184 0.1
0.2		0	~	0.4089 0.2	0.5 0.4089 0.2	0.5 0.4089 0.2	0.5/16 0.5 0.4089 0.2	2 0.5/16 0.5 0.4089 0.2
0.4 0.5		a		1.4941 0.4	2.9 1.4941 0.4	2.9 1.4941 0.4	2.9 1.4941 0.4	1.9.0 1.4941 2.9 1.4941 0.4
0.5	0 4126 0.4596	° !		0.8581 0.5		0.8583 0.5	1, 0.051 1.1 0.8581 0.5	1.1 0.51 0.51 0.51 0.51
•	0.0016 0.0015	a		0 6021	- 0 6021	- 0 6021	- 0 6021	0.0000 - 0.021
0.2	2002	0		. 56 15 0. 1	1.2 0.5615 0.4		0.8140 1.2 0.5015 0.4	1.2 0.8140 1.2 0.5015 0.4
0.1	26.60	-	0.1	0.1	0.1 0.2046 0.1	0.1 0.2046 0.1	0.2728 0.3 0.2046 0.1	0.2128 0.3 0.2046 0.1
0/ 05/ 0.5	0.4385 0.4307		:   	- NU8		1.1 0.6014 0	1.1 0.6014	1.1 0.6014
0.1	1231 0.251	٠÷			0 9 0.4522 0	0 9 0.4522 0	0 9 0.4521 0	0 9 0.4521 0
	21112		0.4	0.5563 0.4	1.0 0.5563 0.4	1.0 0.5563 0.4	0.1686 1.0 0.5563 0.4	0.1686 1.0 0.5563 0.4
115 0.1 0.2		:-	0.1	0.0004 0.1	0.1 0.0001 0.1	0.0004 0.1	0.1 0.0001 0.1	0.0284 0.1 0.0044 0.1
·· · · ·		;0	•	0.05.18	0.1 0.0518	0.1 0.0518	0.061 0.1 0.0518	- 0.067 0.1 0.1 0.05 JB
1	0.896.0 (((6).0	o	0.9	0.0 16(1.1	2.2 1.1791 0.9	2.2 1.1791 0.9	1.6237 2.2 1.1791 0.9	1.6237 2.2 1.1791 0.9
2.6		-	2.0	2.4854 2.0	3.5 2.4854 2.0	3.5 2.4854 2.0	1.3558 3.5 2.4854 2.0	3.558 3.558 2.4854 2.0
10 0.1 0.1	0.1461 0.14UL	ġ	0.2	0.2847 0.2	0.2 0.2867 0.2	2 0.2847 0.2	0.2 0.2867 0.2	[ 0. 2697 ] 0.2 0.2 0.2647 0.2
	0.0006	်		.°			0.0001	0.0001
	1	0.0	- <b>•</b>	- <b>•</b>	- <b>•</b>	0.0064	0014 0 0004 - 0	
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	:		 i	•				
101 21.6 22.3	18.1627 13.49u9	Ē	1	1 12 1010.50	1 12 100.51 31.12	1.6 25.3991 21 4	1 12 100.51 31.12	1 12 100.51 31.12
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TABLE D-4 C-130E ORGANIZATIONAL AND INTERMEDIATE SYSTEM MAINTENANCE MANKOURS PER SORTIE

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TABLE D-5 C-130E FERCENT DISTRIBUTION OF ORCANIZATIONAL AND INTERMEDIATE SYSTEM MATHTEMANCE MANIDURS BY SERVICING (SV) - SCHEDULED (SC) - LMSCINEDHED (UN) - OTHER (OT)

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AVERALE	3I				3 - 9	3		2.2	2. e	2.2	3-		4	3	£7.1	2 7	3 8	3	3	3	2	3	2 - 3	5				-					
YEAR	Я	3:5	1				-	2	2	उ २	х У	\$. \$	~	2	ž	\$	~	-	3		-	2	• •	-	3	- -	3	. a	4	Ξ.		ş	2 2
5	3	31			31,			2.0	-	21	۰.1 ۱.,		<b>0</b> .	20	~	-		2	19 i i	2		2		<b>.</b>	-	-	3	~	0	<b>.</b>			
	15	3	1		3 2			3.	3	0.5		1.6		0.6	4	4.1	2.2	•	¥.		~	3			9.0	2			•				1.5
9	31	-		817 6 1 6			5			~	3.3		ç		7	5. FI	3	44.5	3	-	-	40 R			2				•	- 			
19/61	2		<u> </u>			3		÷-	<u>.</u>	3	3 	<del>3</del>	<u>}</u>	<del>)</del>	2 4 2	<u>, 4</u>	2	<u>.</u>	<del>3</del> - ~		~	3					<u>-</u>	3	·	<u></u>			25.6/2.
	5	ن <u>ت</u> ب						-	~	~	-	-	-	~	-	0	2	,				<u>.</u>		<u>.</u>	^			~ ~ ~	•	Î			~
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11/5		-		<u>.</u>	-	3	-	Ξ,	Ξ.	<u>~</u>	5	116	5	Ę.	ŝ	<u>.</u>	3		•	<u>,</u>		5		<u>-</u>	<u>*</u>	3	2	2	<u>۲</u>	<u>-</u>			2.04.15
	×			<u> </u>		-	-	-		<u></u>	<u>~</u>	-	_	22 0	<u>~</u>			_	2	~ ·	~	2	2	2	2	<u>6</u>	-	Ŧ	<u>.</u>	<u>.</u>			1 1
					<u> </u>	-	_	ż		Ė	2	<u>-</u>	ċ	9			<u>.</u>	~				<u> </u>	-		-	<u>e</u>	<u>.</u>	~	=	<u> </u>			
	5						-	_		-		2	<u>.</u>	-	-	17.0 10.1	ž		-		<u>.</u>			<u> </u>		-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3.0		<del>.</del>		_	0.1
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7	비	<u>;</u> ;	1	:			<u>.</u>	2	2	_	_	2		≂_	х. Х	-	3.6	_		•	-	2	•	3	g _	-	-	~	ż	<u>~</u>			z
	≳		<u>.</u>	-	<u> </u>	3	<u>.</u>	3	5		<u> </u>	3	3		:	:	:	•	9.7		0.0	3		<u>~</u>	•	0	<u>.</u>	0	<u>.</u>	2			0.2
	E	21	31		- - -	•	3	9 0		0.1		6.9	o.2	9.°	0.5	ç.,	0.1	•			0. 2	- 0	2.	2. o	•	2.2	3	0.2	•	÷.		1	0.0
576	≣∣	19.0		2	5		45.J	\$5.2	11.3	-		×.	15.7	ų. i	د 6. ا	2.1.2	~ 10	•	3. č	2	~	3	2.	3	ю.6	3	÷	ì		₽. ₽			14.9
្រុ	X	5 T. T	0	ະ: ເ	1	18.4	Ц. /	1.4	22.4	27.5	38	22.1		15.E	12.6	5.4	3 2	• •	5.01	¥.,	5.5	15. 1	5.6	40. )	4.13	3.4	1.	34.1	1.1	۲. oc			14.0
	Ž					- 	;:	<b></b>	0	1.5	1.0	9.2	3.0	0.0	1.4	1.5	?;	•	1.5	•	0.'s	<b>.</b>	;		~;- 7	<b>۱</b> .۰	~ ?	<b>n</b> .2	•	40 7	-		1.0
	=					-			5	-	0.3	9.4	+ 0	50	1.	0. د ا	2	•	3.0	-	9	-, -,	7	· · 5	•	2	2	•	3.	•		1	2.1
2	E	- 11		3	2.5	~		3.		-	-	Ţ	 	Jtl. 7	~	Ţ	3	•	1.10	1.0				1	2	-	-	• 6:	 -	~			,u.5
1972	3			5	<u></u>	Ì	0.	9.0	1.1	-	5.5	1.6	8	<u></u>	5	ŝ	-	•		3			2	<u>-</u>	<u></u>		÷	÷	-1.6	1.1		:	1
ļ	1	ta l	21	-1	31	2:		~	1			~ ~ ~	00	~ .		1.1		•	•	•			0,0		<u>, , , , , , , , , , , , , , , , , , , </u>	~ ~ ~	~ 0	-	,	0 2			•
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			2			-	~	-	~	-	-	0 - 5 - 1	Ĩ		÷	-	-		-	3 7 1	<u>.</u>	13.6	<u>-</u>	-	-		<u>^</u>	÷,	-	-			2 6.20
151	1	Ê	-			9.4	÷	1	1			÷	÷	3	÷.	÷	<u>-</u>		÷	÷	Ì	÷		÷	ž		<u>=</u>			÷			
	3	121	<u></u>	Ţ		-	-	1	-		-	, -	-	-	-	- <u>-</u>	-			=				3.1.6		-		~		<u>-</u>			0.4
	,		Ĩ	Ľ,		-					3		9			<u> </u>	-		<u> </u>	~	-	-	-	<u>,</u>			3	-					
	SYSTEM NAME	Alafawe	LOCIPIT AND FUSHIAGE		II FOIL CONTROLS	UP FOND & MANT	Auchi tave Pusta Pi Aut	Unicada hC PPIMILLER	Ally Condittioning, Pressualization		L ICUILING SYSIEM	Incent IC AND PREMARIC		Ory(2M	wise, with this	INS (KINE N] S	Aufor 1 01	NU FUNCTION ANAL . & NECORDING EQUIP.	HE CONTRACT TOWN	Vis CuttwillCATTOMS		L		HUNECATIONS	HISC. CLOPWRICALIUNS	KADTO HAVIGATION	NADAR MAVICATION	(M. RCLNCT [1,21)PMLN]	MASTANGE CONTINUES		•		1014
	į į	1-	:≃	: 2	: =	• ~			a 7		:	: :		,	. ,			: :	: 10	: 3		. 19	5		5	-	~	• 5		7			

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SYS NO. SYSTEM MARE	1962•	1963•	1961	1065	99f.L v	•/06F	804.I	- 6961	-0/61		7/64					ANEMGE
11 AIRIANE	1.1	3.6	10.6	15.6	5.5	10.3	1.1	313	919	2.9	-	•	6.91		12.1	-
		12	2.1		2.0	3.9	9.0	2.2	2.2	9.6	-	7	5.5			
1 LADDING CLAR	1.1	29.62	2.62	1.16		34.8	2.0	27.2	25.9	42.5	27.6	2	1.0	29.2	2.2	zi
	22.3	15.6	1.11	23.6	8.9	16.6	د،۲	11.0		13. Fr	K.S	1.1	21.6	15.4	<b>18</b> .0	1
		8		110.4	6.11	6.0	45.4	66.2	÷.9	9.6	64.0	01.6	111.0	0.8	101.2	
			21.2	22.1	15.51	24.1	1.1	19.2	É		12.5	22.5	27.6	22.0		<u>.</u>
		1	1.11	2.14		26.6	12.21	21.6	20.4		21.12	23.6	23.3	25.3	2.2	2
JZ NIUVILLIC PROTITIER		2.02		1.2	27.52		20.4	5.6	68.0	6.12	61.1	63.6	94.2	2.11		2
	-	1	2.15	20.3	13.9	22.1	н. н Н. н	0.0	17.6	20.7	1.1	2.0	21.9	23.2	23.6	
		1	10.01	10.6	5.9	1.1	9.9	12.6	12 5	11.5	•		14.0	1.1	3	2
			11.11	14 0	1.1	11.6	1.0	1	12.9	14.3		2	15.4	15.2	i	÷
_	101	11.6	61.4	17.2	11.6	196.7	10.91	121.7	1.11	8.161	115.6	122.8	100	135.9	172.0	127.
		10.01	5.3	10.6	2.1	11.2	9.6	9.6	4.6	6.4		10.01	11.0	10.6	-	<b>ا آه</b>
_		16.0	16.7		5.6	18.0	0.6	1	11.6	1.9	12.4	17.6	19.8	17.6	2	-
	121.4	. 6	5.91	\$5.8	0.63	64.8	27.7	12.9	38.2	6.0		2.3	\$3.7	13.6		3
	1	11.0	2.2	10.01	1.6	58.2	15.2	11.1		5.6	ţ.,1	C.V	3	¥.3		2
_		0.0	0.0		0.0	0.0	0		•	0.0		•	•	9.0	9-1	
_,	- 10.0	<b>.</b>	3	6.1		<b>6.9</b>	1	<b>6.8</b>	6.5	6.2	ĩ		1.4		4.5	~
	5.0	2.4	2.4	2.6	0.7	2.9	-	2.2	2.6	4.2	2.1	1:9	2.3	3	5.0	~
			3	5.01	-	1.1	10.15	5.6	-	C.11		0.6		<b>5</b> .5	s.0	
			5.7	1	1	6.1	Ī	3	1.3	5.6		3	7.1			-
	0.0	0.0	2.9	13	1	1.1	17.0	4.2		10.2		0.8	2.6	3		• 
	0.0	0.0	(.1	1	0.4	1.1	0.2	6.2	1.1			5.0	<b>9.9</b>		12.6	-
	9.0	0.0	0.3	0.2	13	0.3	0.0	0.2	0.2	0.3	0	. 0.2	•	~	0	0.2
	1.11	25.0	<u></u>	27.5	16.6	8.9	0.0	2.5	6.4	16.91	28.4	24.3	37.1	¥.	31.0	2.2
	65.6		5.01	\$5.2	1.1	61.2	54.0	1.19	2.6	112.0		2.4	9.6y	•••	<u>;</u>	<b>9</b> 0.
	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	•	0.0	•	9	0.0
		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0	0.0	:	0.0	-
	0.0	0.0	0.0	0.0	1.	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		3   
								!	1	i			İ	ł	1	!
					Ì				İ	1			i		:	:
							19		0.03	241.4	601.6	1.03			14.4	
	0.94	0.200	C. 0.C													

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TABLE D+6 c-130e organizational and interfediate troubleshooting system maintenance manduns per 1000 flight hours

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TABLE D-7 C-130E FERCENT DISTRIBUTION OF ONGMIZATIONAL AND INTEMEDIATE SYSTEM TROUBLESHOOTING MULTEMAKE IMMOUS

- and bestered

2	SYSTEM INNE	1962•	1963	106	COLT	0067		<u></u>	3			4					AWLNEE
_		•					1.2		1.02	1.01	0.1		C.1	<b>C.S</b>	2.10	1.6	9.1
							1.0		5.4			•	9.6	0.7	2.9	4.4	
			1				8		1.1	18		9.6	3.6	3.6	8.7	~	
-							2.06		X	N.			2.5	2.6	2.23	<b>7</b>	
_			12.01	100 M			10.35		8.9	ю.2	10.3		12.0	0.0	11.91	13.2	
							2.8		1.01	2.01	2.6	2.1	2.5	1.1	3.19	9.2	8
	ALLIL MAT FUMER FIMIL						ונינ		8		2.7	3.6		2.8	3.67	3.2	9.4
	ISUNUA IL FREESSAN			2.0	10.51		5.2	11.0	10.46	10.61	1	C.91	10.1	11.2	10.61	16.2	17.91
	ALE CUERTICUTING, PARTAMENTING			197		4.4	2.3	2.6	8.5	2.65	2.2	2.4	2.6	2.6	5.5		2
	LIGHTING AVSTON	N	10.2		8.4	-	1.1	1.6	8.2	1.95	1.5		2	-	8	3.5	
<u>.</u>	INDERE IT AID PACIFIC	1.6	117	1.6	2.0	1.1	1.8	:	2.0	10.2	1.9	1.6	:1	-	2.2	~	=
		20.43	19.01	10.61	12.80	-	24.55	16.3	19.05	70.45	C.VI		19.4	ŝ	2.8	2.2	3.1
		1.5	1.58	0.0	1.56	0.6	1.2	1.0	1.63	1.47	1.4	1.5			3		-
	MISC. URIN 17165	2.61	2.53	2.8	2.47	2.9	2.22	1.1	2.3	2.20		2.1		~	5.65		<b>~i</b>  i
	THEST BURK LIFS	12.44	7.7	11.29	6.19	8.0	8.8	1.9	6.71	¥.9	3	-	•	-			
	AUTOPLOT	8.9	3	3.5	5.50	6.3	7.19	6.5	1.01	7.24	6.5	9	2	~			j
	HAN FIRETION AUNT. A ALCONDING FOULP.	0.6	8	0.0	0.8	0.0	0.0	0.0	•	•	0.0	•	•		5	2.0	<b>9</b> 1.
	IN CONTRACTIONS	1.35	1.16	1.02	1.16	1.9	1.01	2.2	1.8	1.0	-	0.9	-			•••	
	wir CostautCATIOUS	0.52	0.24	9.9	00	P.2	0.X	0.9	9. X	0.31	9.0		•	-	6		ສ. ອີ: ອີ:
_	une costarications	1.67	1.55	1.14	1.11	17	1.37	6.2		1.3		1.5	-	0.0	9	6.7	
	tutetenter	0.27	0.57	0.96	1.12	0.4	0.96	<b>a.</b> 6	0.97	0.95	1.2		-	0.0			<u>.</u>
		8.0	8.0	0.49	96.0	1.6	0.90	1.6	0.66	0.61	<b>c</b>		.	-	.62		• ;
22 CH 10	CHARGE COMPUTERTIONS	0.0	9.9	0.28	0.22	•	0.47	0.0	.9	1.12	0.5		0.0	2.0	8	- 	•
	HISC. COMMICATIONS	0.0	0.0	0.05	0.0	0.0	0.04	0.0	0.03	6.01	0.0	•		0		0.0	i
21 100100	) IXVICATION	2.45	3.5	1.6.6	4.04	5.0	3.69	1.6	<b>5.09</b>	5.2							
	AANAK ILAVICATION	4.72	1.2	0.22	01.0	5.2		10.7	10.51	1.1	C.VI	10.9		-			
_	LIA MET CONTRACT	8.0	8.0	9.0	0.0	0.0	8.0	0.0	8.0	8.0	0.0	0.0		0.0	•	0.0	•
_	PERSONAL FOURTHENE	0.6	8.a	8.0	8	.0.0	0.8	0.0		0.00	0.0	0.0		0		0.0	
_	EIR OSIVE DEVICES	0.0	8	0.0	0.8		8	0.0	8		0.0	0.0		0.0	8	•	8
					:					İ	-		i	İ	1	;	i
		Ì			Ī	ľ		İ		Ì		ŀ	Ī			1	÷
		2		20	N N	1997	8	0.00	8	100.00	100.0	0.001	100.0	100.0	100.0	100.00	100.00
10145	5	8.9	3.5													•	1

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SYSTEM HAVE	1967	• 1963•	1964	1965•	1966	./16:5	2261	-6961	.0/61	[/a.	2/61	C/51	P/91	c/cl	0/EI	AVE LICE
				1.90	10	D.0298	900	0.0123	0.0126	(10:	\$10	.023	559.	0.0409	2110.0	•
11 AIRING COLUMN				0.0229	8	C110.0	28			8	8	110.	410.	\$C10'0	0.0114	0000
÷.		1	1		10	0.1006	60.	.0524	0.0502	68		650.	3	0.0795	100.0	-
				0.1022	10.	0.0180		0.0273	0.0229	21.0	İ	8	8	0.0134	0.0464	
		 		0.4780	.139	0.2425		0.1251	0.126.		.12	.112	(7.	0.2707	0.2611	•
				0.0457	198	0.0626	10.	0.0141	CHO.0	(10)	300.	<b>1</b> 50.	99. 99	0.0620	0.0508	•
		-		0.1065	501	0.07/5	i		9610.0	590	650.	ā	878	0.0113	0.0630	0 0598
		-		201.0		0.2156	i	5161.0	9161.0	ž	<u>8</u> .	3	1/2.		0.2113	0
			1	10.04		0.06.19	125	0.0134	0.0130	.045	60	190.	38	0.0654	0.074	1610 0
			1		160	0.00	ł	0.0242	0.0243	.025	020	100	(fa.	6.0.0	0,0508	100
			1		1		i	0.0251	0.0250		.076	110.	500.	0.0429	0 01/15	0 0340
			1	9/11 0	DYD	0.5742	1	0.2300	0 2543	. 289	127	197	367	0.3612	0.41 %	000
		•	ļ		i -		:	0.0165	-	220.	.025	.026	210.	6620.0	0.0362	0 0245
	 	) 57	3-	1010	1	10		0 0289	-		510	510.	130.	9610.0	0.0565	G 0390
			537	417	٠	C/01.0	;	1110.0		060.	1		12	0.1230	0.1146	ē 1319
		:he	153		ł	0.1687	ļ	0,0847	0.0900	108	211.	.122	10.	13(1.0	0.1125	0 110
		313	32.			0 0000	1	•	•			•	 	0.0017	0 0011	0 2000
		21 -	3:	0.0147	026	0.0232	022	0.0129	0.0126	.oie	-015	. (10	022	0.0158	0.0116	(610 0
			:x	0.01	100	0 0084	600	0.0042	9,00.0	670.	808	.005	100.	10.001	C100.0	0 006
	71¥	717 	: 117	0.0416	.016	1210.0	.052	0.0174	0.0171	620.	.026	120	022	0.0155	0.0129	2120 0
	a. 	s: 	1 21	0.0129	100	0.0220		0_0110	0.0116	120.	.010	. 9IO.	120.	0.0164	0.0095	0 0152
_			;	0.0291	.022	1170 0	.0.2	0.0079	0.0076	220.	100	200.	808	0.0121	0 0114	1910 0
AL SHERENCY COMMUNICATIONS		-		0.0005	200	0110 0	1.	10:01	0.0140	800	510.	110.	(10.	0.0175	0 0325	0 0108
		: - -	ļ	0.000		0000 U	ŀ	0,0014	0.0001	, • ;	18		1	0,0006	0.0005	000
		1	;	0.1191	1	0 0064	3/0	0.0614	0.0658	190.	192	690	104	10.0.0	0 0800	19/0 0
				0.2190	2/0.	ô.1769	911	0.1278	0.1374	. 289	8	101	201	0.111	0,1179	1651 0
-		-	1	0.000		0 0000	i	0.000	0.0000	í	•	•	.   		0,000.0	0000
PLASUMAL COULMENT		-	! !	0.0000	• 	0.000	;, ;	0.000	0.000		!.	.	ŀ	•	0,0000	0.0000
LIMOSIVE DEVICES		1		0.000	ŀ	0.000	•	0,000	0,0000		<b>!.</b>	l. }	1	0.000	0.000	0.000
		1													,	
				ļ	İ	;	ļ		•	:			i			
									1							•
1 10145				2.9492	מעייו	1600.2	1.920	1.20/5	611271	1.6/0	2	3	2.44	1.9441	8//A.1	

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TABLE D-8 C-130E ONGANIZATIONAL AND INTERMEDIATE SYSTEM THOUBLESINGTING NAMIOURS PER SCRITE

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TABLE D-9 C-130E ONGANIZATIONAL SYSTEM MAINTENANCE MUNDURS PER 1000 FLIGHT HAUNS

11     Altstewe     1110.1     1100.4     1201.4     100.4     1201.4     100.4       12     CockPIT Mai Fuscination     B41.1     100.4     B21.4     552.3     641.1       12     Libit Coultants     B41.1     100.4     B21.4     552.3     641.1       13     Libit Coultants     B41.1     100.1     B21.4     100.1       14     Libit Coultants     B41.1     101.1     B41.1     101.1       14     Libit Coultants     B41.1     101.1     B41.1     B41.1       14     Libit Coultants     B41.1     101.1     B41.1     B41.1       14     Libit Coultants     B41.1     101.1     B41.1     B41.1       14     Libit Coultants     D11.1     B41.1     B41.1     B41.1       14     Libit Coultants     D11.1     B41.1     B41.1     B41.1       14     Libit Coultants     D11.1     B41.1     B41.1     B41.1       14     Libit Coultants     D11.1     B41.1     B41.1     B41.1       14     Libit Coultants     D11.1     B41.1     B41.1     B41.1       14     Libit Coultants     D11.1     D11.1     B41.1     B41.1       14     Libit Coultants <td< th=""><th>2</th><th>SYSTEM NAVE</th><th>1962•</th><th>1963•</th><th>1964</th><th>1965+</th><th>1966</th><th>1967-</th><th>1961</th><th>1969•</th><th>•0/61</th><th>1/61</th><th>19/2</th><th>1973</th><th>1974</th><th>1975</th><th>9./61</th><th>IS TAM</th></td<>	2	SYSTEM NAVE	1962•	1963•	1964	1965+	1966	1967-	1961	1969•	•0/61	1/61	19/2	1973	1974	1975	9./61	IS TAM
Control Control         Control	E	AIGANE	111.1	1150.4	1267.6	1042.3	0.9301	1275.3	M2.5	27842	116.7	010.2	112.2	1046.6	1544.6	1.121	٦	7
(AMD)AG GLAB     (101)A     (582,4)     (582,4)     (582,4)       12 LEUT COULMAS     544,1     1131,1     444,1     1131,1       1111,1     700,0     647,1     1131,1     444,1     1131,1       1111,1     700,0     731,1     146,1     141,0     1       1111,1     700,1     731,1     146,1     111,1     1       1111,1     700,1     731,3     146,1     111,1     1       1111,1     700,1     731,3     146,1     111,1     1       1111,1     700,1     731,3     146,1     111,1     1       1111,1     700,1     731,3     146,1     111,1     1       1111,1     700,1     731,3     146,1     111,1     1       1111,1     700,1     731,3     146,1     141,2     1       1111,1     700,1     731,3     111,1     111,1     1       11111,1     700,1     731,3     730,3     1     1       11111,1     700,1     731,3     102,2     103,2     1       11111,1     700,1     732,3     731,3     1     1       11111,1     700,1     745,3     103,2     1     1       11111,1	12	COCCPIT NO FUSITAR	490.3		1.115	\$18.2	354.1	10.2	310.3	202.9	207.0	243.6	318.0	20.4	1.44.0		2.2.2	. 1
Elait Calinars     Edit     101     341.0     347.4       Illadual C Proce Porte A.MT     111.1.     341.2     341.4     112.1.       Autil (IAP Port R AMT     112.1.     341.4     112.1.     341.4       Autil (IAP Port R AMT     112.1.     341.4     112.1.     341.4       Autil (IAP Port R FAMT     211.5     146.7     341.9     3       Autil (IAP Port R FAMT     211.5     146.6     119.1     1       Autil (IAP Port R FAMT     211.5     145.6     214.9     1       Autil (IAP Port R FAMT     211.5     145.6     214.1     1       Autil (IAP Port R FAMT     211.5     145.6     214.1     1       Autil (IAP Port R FAUT     211.5     212.5     211.7     1       Autil (IAP Port R FAUT     211.5     212.5     211.7     1       Autil (IAP Port R FAUT     213.5     213.5     213.5     213.5       Autil (IAP Port R FAUT     213.5     213.5     213.5     213.5       Autil (IAP Port R FAUL     214.5     210.5     213.5     213.5       Autil (IAP Port R FAUL     214.5     210.5     213.5     210.5       Autil (IAP Port R FAUL     214.5     210.5     210.5     210.5       Autil (IAP Port R FAUL	-	(AD) NG SLAR	10/01		\$5.3	624.3	6.188	615.2	\$54.2	511.2	610.1	\$22.4	415.9	2.72	42.4	1 325	4.0.8	1
UNAD     PAGE		ELICIT CONTROLS	EH. 7	410.2	244.0	619.6	358.2	436.4	354.1	201.0	209.4	288.0	12.4	\$1.2	1.018	342.0	7	9
Matrix (aar)         287.7         158.4         102.6         6           All Constributing, freesmitation         445.4         246.3         241.9         2           All Constributing, freesmitation         445.4         246.3         241.9         2           All Constributing, freesmitation         445.4         246.3         241.9         2           All Constributing, freesmitation         445.4         246.3         241.3         2           All Constributing, freesmitation         245.4         246.3         241.2         2           All Constributing, freesmitation         245.4         245.3         241.3         2           All Constributing, freesmitation         245.1         241.3         2	12	TURAD PROF POLER MANT	131.0	A.64	11.4	1191.2	6.188	905.3	875.0	214.2	7.11.7	901.6	62.2	1.11	C.228	900.0		ä
IIITAUALIC PROFILIE     1077.0     591.4     601.0       All CONTINUEL, PESSMETATION     445.4     216.2     214.5       All CONTINUEL, PESSMETATION     445.4     216.2     214.5       ILINIAL DAGA SUPAL     217.3     155.0     211.5       ILINIAL STATA     217.3     155.0     211.5       ILINIAL STATA     217.3     155.0     211.5       ILINIAL STATA     216.1     215.1     115.1       ILINIAL STATA     216.1     216.1     215.3       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.1     216.2       ILINIAL STATA     216.1     216.2     216.2       ILINIAL STATA     216.1     216.2     216.2       ILINIAL STATA     216.1     216.2     216.2       ILINIAL STATA     216.2     216.2     216.2       ILINIAL STATA     216.2     216.2     216.2       ILINIAL S	12	AUTILIARY POUCH PLANT		154.1	162.5	169.1	166.5	14.9	166.5	147.0	137.6	1.01	Q. 3	130.8	161.7	c"181-		101
All Constribution     484     315     319       1127     1127     1131     1131       1127     1131     1131     1131       1127     1131     1131     1131       1127     1131     1131     1131       1121     1131     1131     1131       1121     1131     1131     1131       1121     1131     1141     1141       1121     1131     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1121     1141     1141     1141       1141     1141     1141     1141       1141     1141     1141     1141       1141     1141     1141     1141       1141     1141     1141     1141       1141     1141     1141	12	INTERAL IC PROPELLER	1011.0	1	6.109	632.0	C.100	619.0	690.4	6.959	\$25.2	474.5	<b>F</b>	607.4	446.9	411.9		1.115
Reference     Sat.     Sat.     Sat.     Sat.       1 Light Ind. Styline     1 Light Ind.     1 Light Ind.     1 Light Ind.       1 Light Ind. Styline     1 Light Ind.     1 Light Ind.     1 Light Ind.       1 Light Ind. Styline     1 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.       1 Light Ind.     2 Light Ind.     2 Light Ind.     2 Light Ind.	=	ALA COUDITIONING, PRESUMIZATION	415.4		9.116	3.86.2	284.6	1.940	454.0	1.14	364.5	354.8	9. JOC	340.0	(18.5	X2.0	2	2
Ultimine     273.5     166.6     119.1     1       Utimine     273.5     232.5     2       Utimine     213.5     232.5     2       Utimine     213.5     232.5     2       Utimine     213.5     232.5     2       Utimine     213.5     133.1     143.5       Utimine     213.5     133.1     143.5       Utimine     200.5     403.0     403.2       Utimine     200.5     403.0     105.2       Utimine     200.5     200.5     105.2       Utimine     200.5     200.5     20.5       Utimine     200.5     200.5     20.5       Utimine     200.5     200.5     20.5       Utimine     200.5     200.5     20.5       Utimine     200.5     200.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Utimine     200.5     20.5     20.5       Ut	12	ELECTRICAL PONCE SUPPLY	10		2.0.5	176.1	162.0	1.101	112.4		147.0	128.2	92.9	119.1	162.0	164.1	1.2.1	9
Immedia IC And Friemric     Jic.)     Faz. 3     232.5     2       OTGAN     OTGAN     1143.2     111.3     11.3     1       OTGAN     OTGAN     113.1     1143.2     111.1     1       OTGAN     OTGAN     113.1     114.1     1     1       OTGAN     OTGAN     113.1     114.1     1     1       OTGAN     OTGAN     114.1     1     1     1       OTGAN     114.1     114.1     1     1     1       Distribution     114.1     144.2     105.2     1       Distribution     114.1     144.5     0.0     0.0       Distribution     114.5     144.5     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distribution     144.5     0.0     0.0     0.0       Distrentication     144.5     0.0	_	LIGHTING SYSICH	210.5	1	19.1	162.7	165.7	170.6	190.6		148.6	126.6	100.7	139.2	•	145.2	1	152.
Init         Init <thinit< th="">         Init         Init         <thi< td=""><td></td><td></td><td><b>1.1</b></td><td>1</td><td>232.5</td><td>292.0</td><td>296.0</td><td>201.1</td><td>354.6</td><td></td><td>270.5</td><td>237.5</td><td>1.561</td><td>266.0</td><td>352.7</td><td>296.4</td><td>3.1.2</td><td>27.</td></thi<></thinit<>			<b>1.1</b>	1	232.5	292.0	296.0	201.1	354.6		270.5	237.5	1.561	266.0	352.7	296.4	3.1.2	27.
OTIGATION         OTIGATION <thotigation< th=""> <thotigation< th=""> <tho< td=""><td>); =</td><td></td><td>100.2</td><td>0.120</td><td>461.7</td><td>615.4</td><td>C. 958</td><td>1440.1</td><td>1014.4</td><td>3.66</td><td>9-556</td><td>902.0</td><td>784.4</td><td>1019.6</td><td>1324.4</td><td>10.6</td><td>12.5</td><td></td></tho<></thotigation<></thotigation<>	); =		100.2	0.120	461.7	615.4	C. 958	1440.1	1014.4	3.66	9-556	902.0	784.4	1019.6	1324.4	10.6	12.5	
NILL FILS     118.1     118.1     118.1     118.1       NILL FILS     700.3     603.4     603.2     703.2       NILL FILS     700.4     703.4     703.2     703.2       NILL FILS     70.0     70.0     70.2     703.2       NILL FILS     70.0     6.0     6.0     70.2       NILL FILS     70.1     70.2     70.2     70.2       NILL FILS     70.1     70.2     70.2     70.2       NILL FILS     70.1     70.2     70.2     70.2       NILL FILS     70.2     70.2     70.2     70.2       NILL FILS     70.1     70.2     70.2     70.2       NILL FILS     70.2     70.3     70.2     70.2       NILL FILS     70.2     70.3     70.2     70.2       NILL FILS     70.3     70.3     70.2     70.2       NILL FILS     70.3     70.3     70.3     70.5       NILL FILS     70.3     70.3     70.3     70.5       NILL FILS     70.3     70.3     70.3     70.5       NILL FILS     70.3     70.3     70.3     70.5       NILL FILS     70.3     70.3     70.3     70.5       NILL FILS     70.3     <		OTYLA N	90.06	61.1	11.6	1.5		60.1		\$9.4	\$7.4	57.4	42.3			64.1	2	3
Maximum and the second secon		vice ontholities	1.11	112.1	116.9	6.UI	10.5	126.4	1.20	101.2	102.7	76.7	69.8		1.001	119.5	1.5.1	112.
Aujoritui     Tes.2     Tes.2     Tot.2     Tot.2       Aujoritui     Tut. A Arcconing (route, 101, 2     0.0     0.0     0.0       Britishi     Tes.2     Tot.3     27.2     12.2       Britishi     Tes.2     Tot.3     27.2     12.2       Britishi     Tes.3     Tot.3     27.2     12.2       Britishi     Tot.3     Tot.3     27.2     12.2       Britishi     Tot.3     12.1     12.1     12.2       Britishi     Tot.3     12.1     12.1     12.1       Britishi     Tot.3     12.1     12.1     12.7       Britishi     Tot.3     12.1     12.1     12.7       Britishi     Tot.3     12.1     12.1     12.7       Britishi     Tot.3     12.1     12.7     12.7       Britishi     Tot.3     12.1     12.7     12.7       Britishi     Tot.3     12.1     12.7     12.7       Britishi     Tot.3     12.7     12.7     12.7       Britishi     Tot.3     12.7     12.7     12.7       Britishi     Tot.3     12.7     12.7     12.7       Britishi     Tot.3     12.7     12.7     12.7       Britishi	11.5		0.M.		499.0		180.9	400.6	152.3	20.1	241.0	142.4	157.1			154.9	152.4	297.
MATURCTION INT. A NECCONSCIENCE     0.0     0.0     0.0       MATURCTION INT. A NECCONSCIENCE     112.5     60.7     6.4       MATURCTION INT. INTERNATION     152.7     70.0     70.0       MATURCTION INT. INTERNATION     152.7     70.0     70.0       MATURCTION INT. INTERNATION     70.0     70.0     70.0       MATURCTION INT. INTERNATION     70.0     70.0     70.0       MATURCTION INTERNATION     70.0     70.0     70.0       MATURCTION INTERNATION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0     70.0     70.0       MATURCTION     70.0	:: 0		16.2	1	105.2	126.6	129.4	189.9	10.3	146.4	151.5	1.91	135.5	156.7	174.4	160.2	2	1
10. COPARITICALINES     145.6     66.1       10. University     155.7     27.2       10. University     155.7     27.3       10. University     155.7     27.3       10. University     155.7     27.3       10. University     155.7     27.3       10. University     27.3     27.3       10. University     27.3     27.3       10. University     27.3     29.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frinkink     20.0     20.0       11. Frink     20.0     20.0       1	. 3	HALFING LIVE ANT A RECENTING COULD.	0.0	0.0	0.0	0.0	ŀ	0.0	1.1	0.0	0.0	•	•	•	•	:	~	
011     111 <td>. 5</td> <td>NE COPARIEAI SUIS</td> <td>142.6</td> <td></td> <td>64.0</td> <td>-</td> <td>61.6</td> <td>0.0</td> <td>7.1</td> <td>74.8</td> <td>1.1</td> <td>46.5</td> <td>6.5</td> <td>5.3</td> <td>61.5</td> <td>•••</td> <td>35.6</td> <td>~</td>	. 5	NE COPARIEAI SUIS	142.6		64.0	-	61.6	0.0	7.1	74.8	1.1	46.5	6.5	5.3	61.5	•••	35.6	~
101     C111.1111/A16255     101.0     101.0       111     PALIC     93.0     -61.0       115     93.0     -61.0     95.0       116     0.0     0.0     0.0       115     0.0     0.0     0.0       116     0.0     0.0     0.0       117     0.0     0.0     0.0       118     0.0     0.0     0.0       119.1     112.1     -0.1       111     0.0     11.2       111     0.0     0.0       112     0.0     0.0       113     0.0     0.0       114     0.0     0.0       115     0.0     0.0       115     0.0     0.0       116     0.0     0.0       117     0.0     0.0       118     0.0     0.0       118     0.0     0.0       118     0.0     0.0       119     0.0     0.0       111     0.0     0.0       118     0.0     0.0       118     0.0     0.0       118     0.0     0.0		VIII LIJ'LKIJCA I GUS		26.6	27.2	1.62	Ŕ	32.9	29.5	24.4	22.5	25.4	8.5	6.U	21.2	19.7	15.4	25.1
Init #fnalf     31.6     97.3     95.9       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0       1 + 1     0.0     0.0     0.0     0.0		Inf COLUMICATIONS	<u>[]]</u>	0.0	1.19		218.4	105.6	95.36	0.4	4.2		73.0	6.58	78.1	58.5		
IF     0.0     0.0     0.0     0.0       IN RGLIKT CURENT(ALTONS)     0.0     0.0     0.0     0.0       IN RGLIKT CURENT(ALTONS)     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN RALE     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0.0     0.0     0.0     0.0     0.0       IN SC     0		THILR PRANE	1.01	C.03	1.5.	127.6	91.0	12.7	101.	101.3	101.6	112.0	). <b>G</b>	8.(8	85.9	3		10.
In rel m' curcueicnions     0.0     0.0     7.0       1955     Connections	: 3	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		0.0	2	1.1	21.7	8.9	0.9	57.6	5°.7	64.0	Ĩ	19.6	3.5	22.9	Ŧ	3
nisc.     constrict ites     13.3     10.1     13.7       nuto     nvicitities     14.2     14.2     14.2       nuto     nvicitities     14.2     14.2       nuto     nvicitities     14.2     14.2       nuto     nvicitities     14.2     14.2       nuto     nvicitities     14.2     14.2       nuto     nvicitities     14.2     14.2       nuto     nvicitities     15.1     14.6       nuto     nvicitities     0.1     0.1       nuto     0.1     0.1     0.1       nuto     0.1     0.1     17.7       nuto     0.1     0.1     17.7       nuto     0.1     0.1     17.7	13	EN NGLIK Y CURUNICATIONS	0.0			°.	-	17.6	-	20.4	9.6	27.0	÷.	45.7	5.9	0.0	3	
March         March <th< td=""><td>: 5</td><td>NISC. CURRENTONS</td><td>2:2</td><td>C: r</td><td>5.4</td><td></td><td>20.4</td><td>14.1</td><td>C.II</td><td></td><td>~</td><td></td><td>21</td><td>3</td><td></td><td></td><td>ן ה ו</td><td></td></th<>	: 5	NISC. CURRENTONS	2:2	C: r	5.4		20.4	14.1	C.II		~		21	3			ן ה ו	
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икалкт (финин – 100.1 – 61.6	:2	RADAR HAVIGATION		1.192	K.7	100.1	10.911	4:0.0	1.319	497.0	\$20.6	671.6	454.5	337.6	622.8	512.0		56.1
invanit         ioutivit           invanit         ioutivit           ioutivit         ioutivit           ioutivit         ioutivit		DEER LOUISMENT	1.61	62.5	9.19	1	5.15	74.4	24.0	58.0		6.9	2.25	<b>60.3</b>	69.69	<b>5</b> .9		59.6
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TABLE D-10 C-130E PERCENT DISTRIBUTION OF ONGANIZATIONAL SYSTEM MAINTENANCE NAMOUNS

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TABLE D-11 C-130E ORGANIZATIONAL SYSTEM MAINTERANCE HAMIOURS PER SONTIE

SYS SYSTEM ILLINE	194.2	1963	1964	•596f	<b>1966</b>	-/961	8061	505		1761	17/EI	6/EI	1974	c/8I	9/61	INCIDE
		Ţ	T	1.972		11197	1.6	1.4661	1.5049	:		2.9	4 5	3.6569	1221.2	
IL ALMANNA		T		2.2438	-	1.1060		0.6424	0.5544		60	10.5	17.1	MIT	ויאנזיד	SHL.a
				2.7022		1.9602		1.0287	0.9096		21	TT	111	1.7031	1.285.1	<b>INFI</b>
-				2.6429	1.5	1.2612		0.6455	0 6010	0.9	6 0	2.5	4.7	1.0206	1-0141	1001
TA TA TATA CONTRACT ALL		Ī		6.1579	0.7	2.6163		1.3508	1.3865	2.0	-	1.0	2.2	1.5403	1.5/5.1	2. 43
~~~				0.7322	1.0	1463.0		0.2770	D. 2467	0.0	. 0	0.3	9.6	0.4154	11/2.9	0.4040
	† -	Ī	Ì	2.7400	2.9	1.9935		1.0525	6810.1	0 -	~ ~			1.38/2	109	1.64
		Ι		1.6722	17.	1.1551		0.7025	0.7071	•	0	0.9		1.0204	1685 0	1966.0
		Ī		0.7625	0.7	0.4531	0.3	0.2915	0.2052		10	0.1		0.4628	1167 0	0.4200
		1	İ	0.7045	1.0	0.4930		0.2875	0.2681	•••	60	0.4	-	0.4095	0.6111	0.4322
				1.2644	1.2	1618.0	0	0.5237	0.5248	0.5	0 5	•.7	-	0.4354	0.60	0.759
_		Ţ		2.7511	15.	4,1850		1.6757	1.0537	2.0	2 2	2.6		1.111	1.116/	6609.2
				0.2769	2.0	0, 1968	0.2	0.1123	0.1114		1.0	0.1	0.2	0.1808	0.2126	
		37	  37	0.5105	0.5	0.3653	1	0.2026	_	0.2	0.2		•.0	0.110	0.4002	0.2663
_		1	-	1.5229	2.0	1.1809	0.3	0.5105	<u>.</u>		1.0	9.0	9.0	0.6366	2766.0	0.7136
	10-21	i Ca	) 5-10	0.5482	9.0	0.5484	0.1	0.2767	0.2939		•	0.4	0.5	0.4518	1061.0	2.22
A THE ENCLIPTER AND A RECORDING COULD.		iu:		0.000		0.000	•	0.000	0.000	_	.	·	• ]	100.0	0.0012	•
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<u> </u>			 	0.1269		1660.0		0.0461	1610 0	0.1	9.F	·	0.7	0.0556	0 0408	0.0715
		1 11.4	217	0.4256		0.0049	!	0.1661	0.1611	~.0	~· 0	0.2	0.2	0.1650	0.1656	0.2786
	4		1	0.5525	0.4	200.0	0.2	0.1971	_	0.3	3.2	0.2	0.2	0, 1847	0.1796	0.2687
_				0. 946	1.0	0.2058	i	6901.0	_		1.0	0.1		0.0978	0.0803	0.1719
CIVERSION COLUMNICATIONS		İ		10(0.0	.	0.0509	•	0.0537	<u> </u>		0.1	0.1	0.2	1311 0	11551 0	0.0677
			1	1050.0	0.1	0.0407	•	0.0159	_			•		0.001	0.0017	0.0210
				0.6158		0.5922		·	_		<b>9</b> ,6	0.4	0.)	0.6616	0.6747	0.5992
_				1.7558		1.3005			_			0.9	3.1	1.4138	1.4347	1.2315
	Ī		İ	0.2923	0.3	0.2150		<u> </u>			1.0		0.2	0.1210	0.1253	0.1474
				0,0009	.  ·	0.0006	•	0.000	0.0006	.   	.	•	•	0.000	•	0.000
93 E EM OSIVE DEVICES	1			0.0074	.	0.0064		0,005	0.0058		•	•		0.0076	0.0108	0.0034
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10101 5	_			34.4525	4.4	25.3261	15.2	000.01	1 13. 3495	15.8	14.4	. 17.5	26.0	21.4207	22.59121	20.8212

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TABLE D-12 c-130e intervediate system maintenance numburs per 1000 flight nours

SYSTEM INNE	1962	1963•	1961	1965•	- <u>196</u>	-/951	2061	- 5061	- 0/61	1/61	3/ET	ciet		ciet		ANEMAE
11 AIRTRAME	20.1	161.6	170.4	247.7	5.03	164.2	N.2	104.3	104.2	112.7	5-21	115.3	2.941	144.0	1.141	160.6
÷	124.7	91.2	20.5	131.0	101.1	97.3	22.4	23.0	23.0	<u>6</u> ,14	2112	111.8	10.11	6.4	216.0	3
_	1.315.6	182.6	180.4	1.261	296.1	214.8	209.4	170.7	159.9	150.4	170.4	120.0	32.6	194.1	129.0	125.
-	63	59.0	8.3	80.4	358, 4	63.6	41.4	45.2	45.2	43.1	1.1	50.2	5.6	9.6	N.	3
22 TIHED PACE POLE & MAIL	768.4	520.4	6.0.8	17. P.	612.4	611.7	111	405.3	485.2	613.8	446.0	491.6	(.999	\$55.1	743.1	ŝ
_	76.3	11	0.1	(1)	1.611	49.1	1 K	39.0	×.5	27.5	1.4	15.9	42.0	0.05	÷.	\$
NYUPAN IC PROFILLS	602.2	345.2	300.0	¥1.2	0.14	400.2	0.314	1717	201.8	310.2	210.5	M).3	237.9	223.4	310.2	315.
AI AIR CONTAILIONING, PRESSURIZATION	52.6	40.8	37.0		(.14	0.1	6.2	ê.3	3.6	65.6	41.6	31.9	25.4	23.6	15.4	9
-	128.7	73.0	105.4	1.1	109.1	14.6	104.4	6.03	65.0	54.0	C.9C	61.8	. 53.0	\$7.2	91.5	~
	285	20.5	15.6	21.5	16.2	22.4	2.85	19.91	19.5	24.6	19.8	22.1	20.2	12.8	11.9	20.2
	(.a.	1.65	10.6	61.0	\$1.4	61.6	104.4	5.1	54.5	9.6	3.0	43.6	54.6	22.0	34.5	2
	21.1	11.0	1.0	:	16.3	21.9	1.91	11.4	14.5	1.1	11.2	10.6	15.4	N.6	14.6	=
2) DIVCIU	19.0	12.9	(.)	11.6	2.0	14.4	42.4	12.6	12.1	Ŕ	11.6	6.9	9.2	5.8	1.1	12.
	21.1	10.0	1.55	i i i		15.1	26.4	12.0	12.3	12.8	9.6	11.2	13.2	10.1	12.6	2
_	200.0		132.6	12	216.4	108.4	6.9	1.1	64.0	N.1	3.4.	1.1	42.5	27.3	2.2	2.0
-	106.8	11.2	59.4	7.4	184.3	107.1	112.0	9.4	92,5	9.66	1.4	90.2	<b>H</b> .3	21.4	64.0	1
	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	•		•	·	9.9	0.6	3
-	166.4	1.16	78.0	101	234.4	105.0	92.2	01.2	6.5	44.1	X.0	X.9	\$7.4	1.4	. Di	
-	11.2	8.07	<b>i</b> .ii	(''R _	\$2.9	9.16	36.0	28.1	26.0	t.4	11.2	16.9	27.2	8.9	23.6	2
_	-251.3	152.0	106.0	160.7	52.8	1/2.5	211.1	14.0	137.0	6.01	11.1	116.0	1.00	142.5	151.4	1
_	12.4	1.0	C.11	1 36.1	10.4	. (C	35.4	29.7	28.9	22.0	2	22.9	8.5	10.6	19.1	â
	0.0 0.	0.0	1.96		10.1	97.6	5.16	54.4	49.8	19.2	11.5	10.1	16.7	19.1	25.1	
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	3.6	1.2	11	1.1	1.5	1.5	9.5	1.1	2.3	0.4	1		0.4	0.6	0.4	~
11 RADIO INVIGATION	- 160.a	5.01 <sup></sup>	11001	184.6	285.6	203.1	238.5	220.5	229.9	260.6	101	140.0	212.1	246.4	299.1	ž
_		- 32676	- 322.4	3.636	114.2	410.0	5.912	453.0	171.4	592.0	343.6	265.4	11.10	625.6	60.1	416.5
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97 LIMOSIVE DEVICES	0.0	0:0	0.0			0.0	•	0.0	0.0	:•		•			•••	<b>!'</b> ;
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10145	2096.0	2679.5	2736.6	1296.3	4607.0	107.4	5.160	2600.4	2452.5	1004.4	2264.2	222.6	2146.9	2654.0	272.3	2061.1

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II         LICAME         6.93           12         COCULT AND PASTAL         5.03           13         COCULAT AND PASTAL         5.20           14         LUDING GUA         5.10           15         LUDING GUA         2.10           16         LUDING FAR         0.61           17         LUDING FAR         0.61           18         LUDING FAR         0.61           19         LUDING FAR         0.61           11         LUDING FAR         0.61           12         LUDING FAR         0.61           11         LUDING FAR         0.61           12         LUDING FAR         0.61           11         LUDING FAR         0.61           12         LUDING FAR         0.61           13         LUDING FAR         0.61           14         LUDING FAR         0.61           15         LUDING FAR         0.61           16         LUDING FAR         0.61           17         LUDING FAR         0.73           16         LUDING FAR         0.73           17         LUDING FAR         0.73           16         LUDING FAR         0.73 </th <th></th> <th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th>19.6</th> <th>19.4</th> <th>179</th> <th>2. M</th> <th></th> <th>10.5</th> <th></th> <th></th> <th></th> <th></th> <th>14.1</th> <th></th> <th></th>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.6	19.4	179	2. M		10.5					14.1		
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ANDRALA IC PAPEILLES ANDRALA POPEILLES ANDRALA POLA SUMATATION CLECTRICAL POLA SUMAY LUMITICS - SUSIA		12.74	1.8	2,40	1.54	1.01	1.46	2	16.0	6	5	1.61	1.1	-	1.4
KIR COMPITIONING, PRISUMITATION CUCCINICAL POAR SUMY VIGUIDIS JOSIA			11.14	10.23	12.56	12.25	12.05	21.49	11.24	12 19	13.46	~_ 	1.76		8.11
ELECTRICUL PARA SURVY LUMITING SISTUM		1.3	1.27	1.77	1. 1	1.04	1.50	1.49	2.14	1	1.40	ô	1.12	3.1	-
a faiting Sister		3.6	2.1	10.2	2.65	3.06	2.56	2.45	1.79	22	2.7	2.06	22.23	2.8	5.5
ATTEND OF DUILDING		0.57	0.65	0.X	0.70	0.83	0.74	D. 74	0.82	0	0.97	0.79	9	. 0.4	0.7
		1.74	1.05	1.17	8.4	90.1	2.16	2.13	16.2	2 19	1.91	2.13	1.25	1.9.1	2
-	L	9.26	0.29	0.35	0.69	1.15	0.5	0.55	0.49	0.54	0.46	0.41	0.57	0.4	9.6
		12.0	0.41	0.15	6,45	1.26	0.47	0.46	1.01	9.0	0.20	0.32	0.23	12.0	0.4
NISC. UTILITICS		0.51	0.43	0.40	0.47	0.78	0.48	0.46	0.43	0.43	8,49	0.52	0.40	0.31	9.9
11.51RNH(1/15	!	1	2.03	4.70	3.60	1.96	5.67	2.41	1.27	1.5	1.65	1.66	1.44	1.23	2.7
	1	2.17	2.11	8	1.16	3.10	1.00	3.22	3.29	1.12	3.95	3.16	2.81	:6.1	2.91
NUT FUNCTION ANAL . & RECORDING EQUIP.	1	8	9.0 8	0.0	8.9	0.01	8.0	8			·	•	0.02	0.02	8.9
If CERNICATIONS		2.65	1.07	5.03	1.29	2.72	3.25	2.5	1.53	2.1	1.62	2.2	2.87	2.46	<b>2</b> .40
The CONSTRUCT LOUS			1.02	1.15	1.19	8	1.05	0,98	0.77	8	0.74	8	-	0.12	ð
UNE CUSTORIA TONS			6.69	1.15	5.41	6.22	\$.37	5.20	1.92	H.	6.0	6.19	5.54	4.14	10.9
		8.1	91	2.55	1.19	9.1	-	8			8	0.0	0.73	0.10	[]. [].
111		1.34	2.62	3.63	16.2	2.07	2.01	1.88	2.63	3.72	0.44	0.61	0.71	• •	3
Incaulter contamicalitais		0.21	0.16	0.47	0.0	0,01	0.70	0.92	0.91	1.03	1.46	1.45	1.35	1.'9	0.6
NISC. COMMICATIONS		0.16	0.11	0.08	0.14	9.0 1	10.10	0.03	0.02	5.0	0.02	0.02	0.02	0.01	<b>9</b> .0
AXDED EXVEGATION		98.5	5.66	6.20	6.37	7.03	<b>8.2</b> 3	9.67	9.66	1.22	6.13	8.26	9.6	. 5	7.12
72 RADAR HAVICATION 7.03		12.15	11.21	8.99	12.66	15.31	16. <del>3</del> 0	17.20	2	16.73	11.63	16.91	20.56		14.64
CMAGING CIVILIAN		0.'N	0.6	10. <b>0</b>	0.74	0.78	0.72	0.68	0.53	0.71	0.9	<b>9</b> .34	9.1	03	9.0
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		Ľ	-				1.0725	1.2	0.4740	0.2	. 1971	0.2023	0.5	•	9.4	9.4	0.42M	1.661	0.555
Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix<	Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all         Model is all<	= :	· ·				0.6707	10.	0.2812	0,2	0.1300	9.1116	0.2	•.2	•	0.2	1155.0	×12.0	N.2.9
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	* 2					0.8474	1,2	0.6208	0.6	0. 1226	0.1102	0.4	-	-	0.3	1246.0	72.9	0.5221
Main Inter Frant         Justice         Listice         Justice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice         Listice <thlistice< th=""> <thlistice< th=""> <thlistice< th=""></thlistice<></thlistice<></thlistice<>	Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Frank F R.MT         Main Inter Fra	-					0. 3914	1.6	0.1838	0.1	0.0454	0.0477	1.0	0.1		0.2	9.098	- 95	0.2575
Maint Inter Frate Frant         0.111         0.111         0.001         0.001         0.001         0.011         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11	Maint INAF FRAM Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi Minibul IC Reset & Multi M	- ;					1.502.6	2.5	1.7745	1.1	0.9172	0.9415	1.1	~	-	-	212.1	1 565	1.5676
Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constraint)         Intravial (C. Paristin for the constratin for the constraint)         Intravial (C. Paristin f	RTRAINT C         FINAL NUC         1.5500         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         1.1550         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11						0.1944	0.5	0.1419	0.1	110.0	0.0704	0.1		-	0.1	611.9	100	0.116
All Constituention         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)         O (13)	All Graditivening, Prissurtation         0.181         0.1         0.113         0.1         0.113         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1						1.5900	1	1.1566	9.0	0.6107	0.5913	0.7		-	0.0	0.50.0	- 0 6011	0.9252
Alternation         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>	Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction         Contraction						0.1610	0.3	0.1251	1.9	0.0762	0.0766	0.1	•	••	0.1	CI 60 0	000	0.11%
Internation         0.0011         0.1         0.0011         0.1         0.010         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1	Itelating         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration         Constration	1				ļ	C/UC.0	0.6	0.2445	0.2	0.1298	0.1261	0.1	0.1	<b>B.2</b>	0.2	0.2361	•	0.2090
Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation         Internation	Interaction         0.2011         0.1011         0.1011         0.1011         0.1011         0.1011         0.1011         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11						0.0922	l	0.0447	0.1	9/20.9	0.00.0	••	0.1	0.1	0.1	0 0159	0.01	0.0751
MIL         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract         Contract	MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX         MIX <th></th> <td>-</td> <td></td> <td></td> <td></td> <td>0.2641</td> <td>İ</td> <td>0.1874</td> <td>0.2</td> <td>0.1094</td> <td>0,1096</td> <td>0.2</td> <td>-</td> <td>•</td> <td>0.2</td> <td>0440</td> <td>0.000</td> <td>0.156</td>		-				0.2641	İ	0.1874	0.2	0.1094	0,1096	0.2	-	•	0.2	0440	0.000	0.156
OTICIN         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         ODIE         <	OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR         OTTOR <th< td=""><th></th><td>_</td><td>F</td><td>-</td><td>Ī</td><td>0.0416</td><td>ļ</td><td>0.0633</td><td>1.9</td><td>0.0253</td><td>0.0281</td><td>•</td><td>•</td><td>•</td><td>•</td><td>0.017</td><td>6010 0</td><td>0.0424</td></th<>		_	F	-	Ī	0.0416	ļ	0.0633	1.9	0.0253	0.0281	•	•	•	•	0.017	6010 0	0.0424
MINITIS         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING         MOLLING <t< td=""><td>MIST. UNITITS         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE</td><th>:::</th><td>_</td><td>i sten i</td><td></td><td></td><td>0,05m</td><td></td><td>0.0116</td><td>0.1</td><td>0.0216</td><td>0.0235</td><td></td><td>•</td><td>•</td><td>•</td><td>1610.0</td><td>9.0164</td><td>(970.)</td></t<>	MIST. UNITITS         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE         MODE	:::	_	i sten i			0,05m		0.0116	0.1	0.0216	0.0235		•	•	•	1610.0	9.0164	(970.)
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MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION MUDPHION         MUDPHION        MUDPHION MUDPHION        MUDP	Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing         Allowing	<u>.</u>	<u> </u>	 313 		1 1	0,4040		0.113	1.0	0.1356	0.1242	0.1		•.1	0.1	1101.0	0.1052	0.2279
Multifiction And.       At Combine Court.       R       0       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       <	Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicition         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien         Multicitien		-	i d: !		1 1 1	0. 2092	0.0	0. 3035	0.2	0.1561	0.1659	0.2	0.2	<b>6.2</b>	0.1	0.1651	0.2025	0.2602
Nul roux inversion         A         A         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <thc< th="">         C         <thc< th=""></thc<></thc<>	NU (ION ANA, A RECOMMENTATION)         A         A         A         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th="">         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         D         <thd<< td=""><th>21</th><td></td><td></td><td>chi I</td><td>i i</td><td>0.000</td><td></td><td>0.000</td><td>•</td><td>0,000</td><td>0.000</td><td>1 1</td><td>•</td><td></td><td>•</td><td>0.0015</td><td>0.0011</td><td>•</td></thd<<></thd<></thd<>	21			chi I	i i	0.000		0.000	•	0,000	0.000	1 1	•		•	0.0015	0.0011	•
III. Cartwirk (1005)     A     B     Carture (21 Min)     A     B     Carture (21 Min)       III. Cartwirk (1005)     III. Carture (21 Min)     0.1     0.1153     0.1     0.0551     0.2511     0.1     0.1       III. Cartwirk (1005)     III. Cartwirk (1005)     0.1     0.1351     0.1     0.1351     0.1     0.1     0.1       III. Frittentee     0.1311     0.1     0.1     0.1311     0.1     0.1311     0.1     0.1       III. Frittentee     0.1311     0.1     0.1313     0.1     0.0311     0.011     0.1       III. Frittentee     0.1311     0.1     0.1311     0.1     0.0131     0.011     0.1       III. Frittentee     0.1313     0.1     0.0131     0.1     0.0131     0.011     0.1       III. Frittentee     0.1311     0.1     0.0131     0.1     0.0131     0.1     0.1       III. Frittentee     0.0131     0.1     0.0131     0.11     0.1     0.1     0.1       III. Frittentee     0.0131     0.011     0.1     0.0131     0.011     0.1       III. Frittentee     0.0131     0.011     0.1     0.0131     0.1     0.1       III. Frittene     0.0111     0.1     0.1	W. Convention         A         B         C.1453         G.2         B.1055         G.1         G.0511         G.031         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1         G.1 <thg.1< th="">         G.1         G.1</thg.1<>	21	<u> </u>	1	47.X	1 717	0.4182	1.0	0.0014	0.2	0.1648	0.1608		17.0		~ •	0.2074	0.2070	0.2700
0.1 Constructions     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 Notest     0.1 No	01. COMMENTION     0.1313     0.1313     0.1313     0.1313     0.1312     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.1313     0.131     0.131     0.13     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.13     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131     0.131	21		- 8 -		B	0.1459	0.2	0.1095	1.0	0.0511	0.0504	0.1	0.1	•	0.1	0.0406	0.0860	0.034
Interval     0.1334     0.1032     0.1     0.0541     0.041     0.1     0.1     0.1       If     0.111     0.1     0.1031     0.0541     0.0341     0.1     0.1     0.1       If     0.111     0.1     0.1031     0.0341     0.1     0.014     0.1     0.1       If     0.011     0.1     0.0136     0.1     0.0134     0.1     0.1     0.1       If     0.013     0.0131     0.1     0.0131     0.1     0.11     0.1     0.1       If     0.013     0.0131     0.1     0.0134     0.11     0.1     0.1       If     0.013     0.013     0.013     0.013     0.013     0.1     0.1       If     0.013     0.013     0.013     0.013     0.1     0.1     0.1       If     0.013     0.013     0.013     0.013     0.1     0.1       If     0.013     0.013     0.013     0.013     0.1     0.1       If     0.013     0.013     0.013     0.013     0.1     0.1       If     0.014     0.014     0.013     0.013     0.1     0.1       If     0.014     0.014     0.013     0.013     0.1 <td>International        </td> <th>3.</th> <td>-</td> <td></td> <td></td> <td>-</td> <td>6958</td> <td>0.2</td> <td>0.4985</td> <td>0.4</td> <td>0.2722</td> <td>0.2673</td> <td>0.3</td> <td></td> <td></td> <td>4.0</td> <td>0.3916</td> <td>0.4018</td> <td>0.3610</td>	International	3.	-			-	6958	0.2	0.4985	0.4	0.2722	0.2673	0.3			4.0	0.3916	0.4018	0.3610
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_					6.3	2.2	8.6	N . N		1.12	44.06	11.11	121.43	2.4	£.0	116.24	<b>P.H.</b>
	LUCKTI AN POSITION	20.4		12.4	133.2	266.63	146.2	191.07	216.2	108.6	127.64	153,02	91.M	21.77	9.2	2.61	119.6
Ŀ					N.0	8.9%	11.9	31.64	39.6	29.0	36.16	39.01	45.17	11.43	1.1	1	F715
=	TLIGH CURINGS	1.01	16.1	1.131	160.1	103.93	121.6	210.41	<b>8.4</b>	9.4	240.66	12.21	B1.B	19.64	5.2	10.8	119.0
				1.0	11.6	13.63	11.1	11.11	11.0	11.0	11.22	7.64	6.9	10.95	1.2	5.0	12.6
		0.010	212.5	214.0	226.1	N.101	246.4	107.05	196.9	1.01	206.04	190.94	230.25	\$7.93	120.0	26.37	X.5
=[=	ATT CONTRACTOR DECOMPTATION	1.1	A.K	1.14	3.8	5.3	34.8	11.23	2'6	37.6	53. M	39.07	28.97	14.02	X.2	2.5	P.R.
13	ALR COMPTONIES, INCOMENTS	8.6	E. I	1.5	5.4	11.11	65.4	N.97	1.03	Ca.2	46.31	31.06	59.77	20.73	3	5.5	5.3
-1-		2.3	17.0	13.5	9.9	11.16	19.4	20.33	17.2	16.9	22.39	17.01	20.15	19.12	8.6	н.н	
11		10.1	11.5	X.6	6.9	31.53	1.0	67.61	43.6	42.5	10.57		X.3	27.46	29:62	9.9 9.9	3
1		19.6	11.7	3		16.06	19.7	34.62	12.1	13.1	13.69	11.20	9.6	11.19	11.6	13.6	1.21
212			12.5	::	11.11	6.3	11.0	31.15	12.2	11.7	25.32	13.01	6.69	13.77	1.1	2.2	12.2
5 3	14114M		1.1	1.1	12.0	14.72	12.6	10.22	¥.9	10.4	9.20	1.33	9.67	15.54	•	-	
<b>[</b> ]		11.1	6.69	<u> </u>	C.01	107.90	91.0	63.69	5.3	\$1.7	36.52	22.80	M.53	16.42	31.7	2.6	8.3
-1-		8.8	1.13	4.2	8°.9	169.27	76.1	90. X	6.93	6.9	73.64	5.3	67.62	24.10	3	2.7	3
<b>e!</b> 3	ALLA TAL ALL CARDENE FULLE	•	•	•	.		•	•	•	•	•	•	•	•		3	•
2( )		1.0	(6.0	24.9	5.62	122.00	52.1	22.20	41.5	41.4	29.20	2.8	21.02	17.19	N.N	2.2	41.5
tį š	and framework all links	N. 2		11.6	20.1	30.76	22.6	23.93	16.31	15.5	13.67	11.49	10.26	11.14		2.1	1.6
11		123.0	1.1	1	70.6	167.00	1.10	110.13	8.6	67.4	M.26	56.28	64.25	16.78	E.1	1.1	2.9
		-	11.11	20.1	26.7	116.26	27.0	29. X	21.6	21.2	17.29	11.36	N.11	10.1	1.1	13.36	21.7
		·	.	26.3	61.6	153.07	6.9	59.79	8	35.6	54. M	11.25	6. M	13.62	2.2	3.2	×.
	AM ACTICY CORAMICATIONS	•	•	1.1	1.1	7.25	1.1	7.03	11.5	11.6	11.11	17.04	18.31	18.34	2.2	*	<b>X</b> .2
_	MISC. COSTINICALIONS	1	1.3		1.5	2.2	1.1	8.2	1.1	••	0.55	0.67	<b>%</b> .	10.71			2:1
12	KADIO NAVIGATICA	1.3	<b>K</b> .1	1.9	95.3	246.45	103.7	14.6	112.6	11.4	14.6	19.61	8.6	. !		19.2	3
13	PALMAR MAYICA) ILUN	170.4	182.4	1 <b>N.</b> 6	206.3	366.13	228.9	343.26	253.0	264.9	18.81	82.9)	N. N	-1	1.22	2.21	22.4
. \$	ENCRET CONPACIAL	5.2	~~	2.7	2.9	<b>CP</b> - <b>O</b>	2.2	3.6	5.5		21	3.0	-			•	
: 2	1 Science Scultzent	•	ŀ	•	•	•	•	•	•	•	•	•		3	•		3
1	CIN CDING DEVICES	<u> </u> .	•	•	•	•	٠	•	•	•	•	•	•	•	•	.	•
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<u>í</u>						-					İ					:	1
	101AL S	214.3	1.001	1444.7	3746.2	11.11.1	174.1	19.8.41	1467.2	144.5	1974.42	1157.66	117.3	521.62	IN.	MM.62	1540.6

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TABLE D-15 c-130e intenveniate bench check system miniterance mandars fer 1000 regar nomes

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TABLE D-16 C-130E PERCENT DISTRIBUTION OF INTERPEDIATE NEWCH CHECK SYSTEM MAINTENANCE MANDURS

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	SYSTEM MAY	1962	1963	- 1-76T	CONT	9961		2		n/ct					<i></i>		ANCINE
		12	9	101	10.25	13.04	3	9.6	6.16	6.25	4.8	6.9	1.11	4.04	9.72	19.8	H12 -
				14		2.8	191	131	3.6		2.43	3.62		6.18	4.61	2.5	•
_		10.59			7.58	8.0	12	9.82	1.2	1.5	6.46	10.50	6,69	5.48	3.42	112	~
_				36.5		10.51	12	3	2.66	2,20	1.78	2.61	3.28	6.37	2.45	2.11	7
				19.4		5.5	33	10.65		6.65	12.19	10.44	5.35	3.76	4.69	2.93	7.67
			10	0.09	0.77	5	1	0.81	8	0.76	0.57	0.5	0.51	2.09	0.56	0.48	!
				11.62	12.67	5.61	10 11	15.	11.64	12.9	10.41		15.21		11.20	17.65	<u>а</u> .ц
				1	20.2	1.51	8	2.64		2. 2	10.0	2.6	2.11	19.2	1.96		~
						()		97. 4			2 14			3	3.95	5.16	1
	IIIII KICA PUAK SUILT	1			4	. N				121	1.1	1.1	1.01	3.64	1210	11.0	
						011	1	1.02	1		3.65	2.7	1.12	12.5	2.2	1.12	~
					1	0.48		1.75	0.0	i e	69.0	0.2	17.0	15.5		0.81	•
		1			0.15	0.20		12	0.0	0.81	1.2	£.0		2.62	0.41		0
					0.66	0.41	12.0	0.92	2.0	0.72	10.0	3	2.0	2.%	8.9	0.40	a
	······································	1		7.56				3.22	4.10	2.1	8	2.2	2.51	1.1	2.62	2.11	-
			10	2.84	2.89	5.08			1.15	4.21	3. 22	1.8	13.	19.7	17.4	1.23	1
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	WITHER TICH ANAL & RECORDING LOUIS				2.88			1.61		1	1.4	1.4	1.51	3.28	2.49	1	2.68
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						5,04		5.98			1.05	3.6	97	3.20	4.54	3.02	4.53
		2 7 0	96.0		1.52	. 3.49		1.49	57	1	0.64	0.92	1.26	1.51	1.01	0.0	3.1
			,	5	191	i.62	1	.0.1		2.45	2.00	0.7	19			0.75	2.47
		,		0.22	0.16	0.22		0.36	i a		65 0	1.1	1.3	1.50	1.60	2.00	0.68
			0.00	0.10	ł	0.08		0.12	ii a I			0.05	10.0	2.04		0.02	0.11
CINITA TINC (CUTATION 44			5 8		19.5	04.1	1				9.45			3.52		0 /	6.72
		5	34 64	14 61	11. 35	10.39		11.24			22.13	10.01	11 12	1.13	1.11	9.82	-
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		1000	8.9	100.001	100.001	100,00	100.00	100.00	8	100.00	100.00	100.00	8.8	100.00	100.00	100.00	8.8
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TABLE D-17 C-130E INTEMEDIATE NEWCH CLECK SYSTEM MAINTENANCE NUMIOUNS FER SONTIE

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			T		HALL A	1.2454	0. M59	. 118	0.1422	0.1470	1112.6	1274	0.3200	1.06.0	1.352	9 W 10	114.0
	WK.				0110 V	2. W.C		0.11	A. YODA	0.1030	0.1052	1.)466	1111	. 1111.0	2112	0.40(4)	0021
3	COCCEPTE MID FUSITIMA						<u> </u>	27X 0		0.2111	8.2794	9,4254	6.2373	1(10.0	1.121.0	6.124 B	P. X
	LANDING GLAR						1	A AKK		A 0157	0.02	0.1057	0.1166	6.0973	P. CAM	0.09:6	0.2309
_	A IGHT CONTROLS						1	1			0.020	102.0		0.0573	0.1698	0.1715	. X61
22 TUMBO	TUNG PRUP POLER PLANT				1764.0	_	역 '					100.0			0.020.0	0.0216	0.0403
TIX N	AUXILIARY PURK PLANT				0.0	1	1		1370.0			21111		1644	4794	0.7617	1
NUN	ITTRALA IC PHANTILLE				0.6.0	_	1	201	104/210							Circle o	1
	AIR COMPETIONENS, PACESURIZATION				0.1526	0.201	0.100	0.0955	6.99.0	8							
	LICTRICAL POLE SUNTY				0.250	Q. 1536	0.1890	e. 103	e. 1004	0.0975	0.101		0.1517	500'D			1
<u> </u>					0.0799	0.0459			0.026	0.020	0.030		0.0520	0.052	620 P		
-					0.1914		0,1384	0.1270	0.0824	0.0025	£.1577	e. 110	0.013	0.000	000	0.0/17	1
-			İ		0.015	_	1		0.0228	0.0254	0,000	110.0	0.0253	9.0384	0.0344		
		Ļ	5	  m	1150.0	ļ	!	<u> </u>	0.0231	0.022B	0.0555	0.0362	1110.0	0,0401	0.0161	0.0116	
	11 	 2941		1		,	<b> </b> <	0.0144	0.0205	0.202	0.0201	0.0204	0.0249	0.0452	0.0254	1420 0	110.0
	HISC. UITATTIS	i use į		 1000			+			0.1042	0.071	je	1600.0	0.0478	0,0950	6.09.J	0.1926
_	INSTRUCTURS	131	  51  51			-	2	<u>_</u>	1		0.1611	A. 1557	0.1745	0.0704	. 150	0.1401	0.706
_	AUTOP11.01 .	30	   	30		1	107.0	<u> </u>				£			001	0.0015	0.00
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_					0.1150	<u> </u>	1	0.0555	0.0413	0.0412	0.0341	0.0371		0.02.0	0.175	- e.0316	
_	Tuic kindaa				0.2667	_	1		I.	0690	0.1245	0.0313	0.0177	0.0402	0,0290	0.0328	_
					0.0124		-	<u> </u>	1	0.0261	0.0256	0.0475	0.0473	0.0534	9.0511	10.001	
	IN REDICT CONTINUES				A DAKS	<u>.</u>	<u>!</u>	·	1	0.0010	0.0012	0.0019	6000.0	0.0112	.000	0.003	
_	HISC. CONNELICATIONS				A1176	· ·	1		ŧ.,	0.2277	0.4067	0.3353	0.27%	(0.053)	0.3026	[1.22.0]	0.3492
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					7.644	11.60%	5.0750	3.7336	2.7730	2.0024	4.2240	4.6623	3.5405	1.686	3.68	HUC.4	•
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นี้ มีปีประเทศสนานการเริ่างคะและสมบัญหายางทางการการเห็นอาการและการและ จะว่าเรื่องคนและเห็นสภาพระเทริการและ - - - -

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TABLE D-18 C-130E ORGANIZATIONAL AND INTERVEDIATE MAINTENANCE TASKS FER 1000 FLIGHT NOURS

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TABLE D-19 C-130E FENCENT DISTRIBUTION OF ORGANIZATIONAL AND INTERPEDIATE MULTERANCE TASKS

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SYS SYSTEM MANE	1962•	1963+	1964	1965	1966	1967•	1901	-6961	•0/61	151	22/61	5/61 <sup>.</sup>	101	5761	9/6T	
_			•	I					0.11	2.51	1.1	2.41	1.4	14.13	16.31	2
_												•		•.17		1.23
12 CCCP11 .VB /VSILAG												ľ	3	3	3	
13 LADING GLAR		1	HT		E									4.07		
IL ILICIT CONINCLS		1	277											12.20		1
TUMU PAOP POULD PLANT	8.9	1	16.21	10.17		11.11						-		8		1
ANTIL LARY POLEN MAIL	211	5	ALL.			01										
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46   DILLALAN TONIA, PARTI I				0.3291	0.7	0.2630	0.2	0.1994	0.2192	0.2	0.2	0.3	9.6	0.3759	0.3793	0.3072
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44 ENCINCY CONTINUESTIONS				0.1039	1.0	0.0024	.	0.0627	0.0649	0.1	•	0.1	9.1	0.1576	0.1422	
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72 RADUR MAYIGATION				110.0.0		0.4705		0.5466	0.6163	<b>9</b> .0	6.	9.6		1.1974	1.2147	0.00
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I ANDING SLAP         128.6         131.6         131.6         135.6         270.3           I LUIT CONTRACS         99.3         101.1         107.9         111.7         155.6           I LUIT CONTRACS         99.3         101.4         107.9         111.7         155.6           I UNDO FAUO FAUO         201.6         219.4         219.4         219.4         255.2           I UNDO FAUO FAUO         20.4         219.4         219.4         219.2         555.2           I UNDO FAUO FAUO         20.4         219.4         219.4         219.2         555.2           I UNDO FAUO         20.4         219.4         219.4         219.2         555.2           I UNDO FAUO         20.4         219.4         219.3         215.4         215.4           I UNDO FAUO         20.4         219.4         219.2         215.4         215.4           I UNDO FAUO         20.4         219.4         219.2         215.4         215.4           I UNDO FAUO         21.4         21.4         21.4         215.4         215.4           I UNDO FAUO         21.4         21.4         21.4         21.4         21.4         21.4			190.7 120.3 14.4 14.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 7	148.6 101.1 116.6 110.6 101.6 101.6 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 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R. Liuir Continues         99.3         103.4         103.6         113.7         155.6           Tubbo Pady Pode Aut         291.6         319.4         319.7         426.9         555.2           Autilitan Pode Aut         241.3         246.4         39.2         41.3         62.2           Autilitan Pode Aut         246.4         39.2         41.3         62.2         45.2           Autilitan Pode Aut         246.4         246.4         246.4         62.2         41.3           Autilitan Pode Aut         220.4         216.4         179.6         100.3         45.2           All Conditioning, Perstantization         66.9         64.0         72.0         80.1         100.3           All Conditioning         66.3         64.0         72.0         80.1         80.1         80.1			10.3 434.4 46.7 75.7 75.7 75.7 75.1 75.1 14.1 15.1 15.1 15.1 15.1 15.1 15.1 1	101.1 116.6 110.6 101.6 101.6 101.6 115.2 115.2 115.2 110.6 110.6 115.2 115.2 115.2 115.2 115.2	101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 101 10 10 10 10 10 10 10 10 10 10 10 10 10 1	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	1.01				3	116.4
TUBOD PADY POLID         MAIL         293.6         319.7         426.9         555.2           AUTILIANT POLID         240.0         33.2         41.3         42.0         62.2           AUTILIANT POLID         240.0         33.2         41.3         43.2         42.4           AUTILIANT POLID         240.0         33.2         41.3         43.2         42.4           AUTILIANT POLID         240.0         256.4         179.6         132.3         245.4           AIR COMPITIONING, PERSUMIZATION         26.9         64.0         72.0         80.1         100.3           AIR COMPITIONING, PERSUMIZATION         26.9         64.0         72.0         80.1         84.1           AIR COMPITIONING, PERSUMIZATION         26.9         64.0         72.0         80.1         84.1			431.4 421.4 7327 7327 7327 7327 7327 7327 7327 732	316.6 41.1 140.6 50.6 50.6 115.2 115.2 1100.7 1100.7 1100.7 1100.7 1100.7 1100.7 1100.7 1100.7 1100.7 1100.7 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 1100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6	20.6 20.6 1111.1 1111.0 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.2	N 20 5 1 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	M3.6		11.4	211.5	1.191	10.6	120.2
Autilitary Pose Prain         Mag         39.2         41.3         63.2         62.2           Autilitary Pose Prain         200.4         216.4         179.6         122.3         245.4           Innowal IC Priefitie         220.4         216.4         179.6         103.3         245.4           Alls Compiliery Pose Sumitivities         245.6         64.0         72.0         20.3         100.3           Alls Compiliery Pose Sumitivities         44.7         64.3         74.4         64.3         104.3				41.1 104.6 104.5 20.6 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 104.5 100.5 100.5 100.5 100.5 100.5 100.5 100.5 100.5 100.5 100.5 100.5 10	1111.1 1111.1 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 1111.0 11	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			311.6	1.4		-	-
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Air construint, Persuntation         se.9         64.0         72.0         80.0         104.3           Air construction         s4.7         64.2         73.4         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1         84.1			24.1 24.1 24.1 24.1 24.1 24.1 24.1 24.1	101.5 20.6 115.2 110.0 110.0 110.0 110.0 110.0 110.0	111.1 6.0.7 101.2 102.4 101.2 101.2 101.2 101.2	118.2 108.4 118.3 28.6		1.7.6	2.10	1.11	2	20.6	3.27
ELECTRICAL POWER SUPPLY 44.7 61.4 66.2 70.4 64.1			78.7 19.1 11.9 11.9 11.9 11.9 11.9	80.6 115.2 100.7 101.9 101.9 101.9 101.9 101.0	64.7 101.2 101.2 102.4 101.2 102.4	67.9 108.4 118.3 28.6	107.9	111.2	137.6	231.7	J. H.	16.6	16.0
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TABLE D-21 C-130E ONGANIZATIONAL TASKS FER 1000 FLIGHT HOURS

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and presented to

TABLE D-22 C-1306/FEACENT DISTRIBUTION OF OAGANIZATIONAL TASKS

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Althout         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag         Lag <thlag< th="">         Lag         <thlag< th=""> <thlag< t<="" th=""><th>Altified         3.16         5.19         1.6.26         7.16         13.40         17.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         <t< th=""><th>189</th><th>SYSTEM NAVE</th><th>1962*</th><th>1963</th><th>1964.</th><th>1965-</th><th>1966</th><th>•7961</th><th>1968</th><th>•6961</th><th>1970</th><th>1/61</th><th>2/61</th><th>1973</th><th>4/61</th><th>1975</th><th>1976</th><th></th></t<></th></thlag<></thlag<></thlag<>	Altified         3.16         5.19         1.6.26         7.16         13.40         17.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41         13.41 <t< th=""><th>189</th><th>SYSTEM NAVE</th><th>1962*</th><th>1963</th><th>1964.</th><th>1965-</th><th>1966</th><th>•7961</th><th>1968</th><th>•6961</th><th>1970</th><th>1/61</th><th>2/61</th><th>1973</th><th>4/61</th><th>1975</th><th>1976</th><th></th></t<>	189	SYSTEM NAVE	1962*	1963	1964.	1965-	1966	•7961	1968	•6961	1970	1/61	2/61	1973	4/61	1975	1976	
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	Lumina Gian         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line         Line <thline< thr="">         Line         Line</thline<>	=   :			19.41			19.3	6.2	23	2.62	1.1	6.0)	1.24	2.50	1.27	16.2	2.40	HT
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Mail Jair Foatar Nait         1.14         1.19         1.21         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13	Main I AIT Provide Main         1.41         1.12         1.21         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.24         1.	= ;	÷		2.1	12.21	16.3	15. 8	16.31	1.1	13.62	13.14	12.09	11.36	11.25	10.95	11.02	8.9	2.11
IffedMALE         FORMALE         1,1         9,1         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         1,2         <	Introduct is forward in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the formation in the format	ះត្រ	-		1	1.6	1.6	1.7	1.75	1.2	1.1	1.77	1.51	1.11	8	9.1	8:	1.1	
All Constitutioning, Messanitation         2.13         2.13         2.13         2.13         2.14         2.15         2.14         2.16         2.14         2.16         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14	Mill Condition Free Name         2.16         2.13         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.19         2.10         2.10         2.10         2.10         2	:1:	<u> </u>		1.6	1.1	6.9	1.01	5.51		6.10	5.97	4.20	6.3	6.07	2	5. R	A	6.13
Interface         Entry         2.13         2.13         2.13         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	¥ 3		2.2	1.1	2.95	1.15	9.6	3.5	4.40	3.09	4.01	4.05	5.16	4.66	8	1.6	3.1	
Literiring Station         2.13         2.13         2.13         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14 <th>Litaritius Traine         7.46         2.73         2.73         2.74         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16<th>=is</th><td></td><td>2.5</td><td>2.23</td><td>2.2</td><td>3.6</td><td>2.12</td><td>2.99</td><td>2.13</td><td>2.40</td><td>2.30</td><td>5.24</td><td>1.15</td><td>1.12</td><td>2.1</td><td>1.7</td><td></td><td>2.5</td></th>	Litaritius Traine         7.46         2.73         2.73         2.74         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16         3.16 <th>=is</th> <td></td> <td>2.5</td> <td>2.23</td> <td>2.2</td> <td>3.6</td> <td>2.12</td> <td>2.99</td> <td>2.13</td> <td>2.40</td> <td>2.30</td> <td>5.24</td> <td>1.15</td> <td>1.12</td> <td>2.1</td> <td>1.7</td> <td></td> <td>2.5</td>	=is		2.5	2.23	2.2	3.6	2.12	2.99	2.13	2.40	2.30	5.24	1.15	1.12	2.1	1.7		2.5
Immodul IC value Meridentic         111         3.00         1.11         3.10         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21         4.21 <th< td=""><th>Interlet         1.1         1.10         1.11         1.11         1.11         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10</th><th>* 3</th><td></td><td>2.5</td><td>2.5</td><td>2.73</td><td>2.87</td><td>4.46</td><td>3.28</td><td>4.65</td><td>3.64</td><td>3.68</td><td>1.1</td><td>7.7</td><td>3.61</td><td>5</td><td></td><td>1.</td><td>2</td></th<>	Interlet         1.1         1.10         1.11         1.11         1.11         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10	* 3		2.5	2.5	2.73	2.87	4.46	3.28	4.65	3.64	3.68	1.1	7.7	3.61	5		1.	2
Fut         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net         Number Net <th>Multicities         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model</th> <th></th> <td></td> <td>1.4</td> <td>1.0.5</td> <td>12.6</td> <td>1.1</td> <td>4.24</td> <td>3.69</td> <td>4.50</td> <td>3.84</td> <td>4.02</td> <td>2</td> <td>51</td> <td>11</td> <td>2</td> <td>Ę</td> <td>1.1</td> <td></td>	Multicities         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model         Model			1.4	1.0.5	12.6	1.1	4.24	3.69	4.50	3.84	4.02	2	51	11	2	Ę	1.1	
OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER         OTHER <th< td=""><th>OTTAR         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         <tholy< th=""> <tholy< th="" th<=""><th>* *</th><td>•</td><td>16.21</td><td>19.16</td><td>3.</td><td>12.8</td><td>2.60</td><td>1.56</td><td>6.23</td><td>6.74</td><td>6.74</td><td>5.41</td><td>6.85</td><td>9.4</td><td></td><td>3</td><td>6.16</td><td>-</td></tholy<></tholy<></th></th<>	OTTAR         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY         OLY <tholy< th=""> <tholy< th="" th<=""><th>* *</th><td>•</td><td>16.21</td><td>19.16</td><td>3.</td><td>12.8</td><td>2.60</td><td>1.56</td><td>6.23</td><td>6.74</td><td>6.74</td><td>5.41</td><td>6.85</td><td>9.4</td><td></td><td>3</td><td>6.16</td><td>-</td></tholy<></tholy<>	* *	•	16.21	19.16	3.	12.8	2.60	1.56	6.23	6.74	6.74	5.41	6.85	9.4		3	6.16	-
HISE. WITH FILE     0.14     0.16     1.01     1.15     1.15     1.16     1.16     1.16     1.16     1.16     1.16     1.15       HISE INVERTIS     0.10     1.16     1.16     1.16     1.16     1.16     1.16     1.16     1.16     1.16       HISE INVERTIS     0.10     1.16     1.16     1.16     1.16     1.16     1.16     1.16       HISE INVERTIS     0.10     0.16     0.16     0.16     0.16     0.16     0.11     0.11       HISE INVERTIS     0.10     0.16     0.16     0.16     0.16     0.16     0.11       HISE INVERTIS     0.16     0.16     0.16     0.16     0.16     0.16     0.11       HISE CONDING COULDS     0.16     0.16     0.16     0.16     0.16     0.11       HISE CONDING COULDS     1.16     1.16     1.16     1.16     1.16     1.16       HISE CONDING COULDS     0.16     0.16     0.16     0.16     0.16     0.11       HISE CONDING COULDS     1.16     1.16     1.16     1.16     1.16       HISE CONDING COULDS     1.16     1.16     1.16     1.16     1.16       HISE CONDINICAL     0.16     0.16     0.16     0.16	HISS. UTILITIES     0.98     0.98     1.01     1.95     1.02     1.03     1.03     1.03       HISS. WILL HISS     0.09     1.06     1.06     1.06     1.06     1.06     1.01     1.01       HISS. WILL HISS     0.00     1.06     1.06     1.06     1.06     1.06     2.01     2.01       HISS. WILL HISS     0.00     0.01     1.06     1.06     1.06     0.01     0.01       HISS. WILL HISS     0.00     0.01     0.01     0.01     0.01     0.01     0.01       HISS. WILL HISS     0.01     0.01     0.01     0.01     0.01     0.01     0.01       HISS. COMMING TOILS     0.01     0.01     0.01     0.01     0.01     0.01     0.01       HI COSTUNICATIONS     0.01     0.01     0.01     0.01     0.01     0.01     0.01       HI COSTUNICATIONS     0.01     1.01     1.01     1.01     1.01     1.01       HI COSTUNICATIONS     0.01     1.01     1.01     1.01     1.01       HI COSTUNICATIONS     0.01     0.01     0.01     0.01     0.01       HI COSTUNICATIONS     0.01     0.01     0.01     0.01     0.01       HI CONNUCATIONS     0.01	۶ļ۹		0.7	0.77	8.0		0.76	8.9	1.10	1.06	0.97	8.0	•	8		8	1.1	-
Instituentis         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	Institute         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	1			8.0		1.07	1.95	1.27	1.56	1.40	1.40	1.55	5		¥.	칠		
MULOPIENT         2.13         2.13         2.11         1.14         2.13         2.13         2.13         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14         2.14	MURPHIGI         2.13         2.13         2.13         2.13         2.13         2.04         2.01           HALLOWIGH         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	HS		8.0	0.49	3.6	5.62	6.3	5.76	2.22	5.4	2.15	21.2	2.7	2.2	<u> </u>	8	8.4	3
HALTURCTION ANAL, A SECONDING COUP.         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	HALTURCTION ANA. A SECONDING EQUIP.     0.00     0.01     0.01     0.02     0.02     0.02     0.02       IF COSTULICATIONS     0.13     0.13     0.14     0.14     0.14     0.14     0.14       IF COSTULICATIONS     0.13     0.14     0.15     0.14     0.14     0.14       IF COSTULICATIONS     1.14     1.16     1.16     1.16     1.16     1.14       UIF COSTULICATIONS     1.11     1.15     1.16     1.16     1.16     1.16       UIF COSTULICATIONS     1.11     1.15     1.16     1.16     1.16       UIF COSTULICATIONS     1.11     1.17     1.16     1.16     1.16       UIF COSTULICATIONS     0.13     0.13     0.13     1.16     1.16       UIF COSTULICATIONS     0.11     1.17     1.17     1.14     1.14       UIF COSTULICATIONS     0.13     0.13     0.13     0.14     0.13       UIF COSTULICATIONS     0.13     0.14     0.14     0.14     0.14       UIF COSTULICATIONS     0.11     0.13     0.14     0.14     0.14       UIF COSTULICATIONS     0.11     0.13     0.14     0.14     0.14       UIF     0.14     0.13     0.14     0.14     0.14	. \$	-	2.57	2.2	2.22	2.17	1.84	2.13	2.26	2.0	2.01	-	\$	=		8		3
If ConsultAtions         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         6.15         1.15         1.16         1.17         1.15         1.16         1.16         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         0.13         0.14         0.15         0.14         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15	If CorsultArities         0.61         0.63         0.61         0.61         0.61         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71         0.71 <th>115</th> <td>_</td> <td></td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td><b>9.</b>02</td> <td>0.0</td> <td>9.0</td> <td>•</td> <td>•</td> <td>•</td> <td></td> <td>10.0</td> <td>0.02</td> <td></td>	115	_		•		•	•	•	<b>9.</b> 02	0.0	9.0	•	•	•		10.0	0.02	
Mr Costantications         6.61         0.63         0.62         0.63         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64         0.64 <th0.64< th="">         0.64         0.64<th>mr Costaulizations         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6</th><th>45</th><td><u> </u></td><td>0.65</td><td>.54</td><td>6.9</td><td>9.9</td><td>0.87</td><td>0.67</td><td>1.06</td><td>0.71</td><td></td><td>0.11</td><td>3</td><td>0.78</td><td></td><td></td><td>6.0</td><td></td></th0.64<>	mr Costaulizations         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6         e.6	45	<u> </u>	0.65	.54	6.9	9.9	0.87	0.67	1.06	0.71		0.11	3	0.78			6.0	
UIF CORMITATIONS     1.01     1.06     1.06     1.06     1.06     1.06     1.06     1.06     1.01       INTERIME     2.01     2.01     1.05     2.05     1.01     1.01     1.01     1.01     1.01       INTERIME     2.01     2.01     1.05     2.05     1.01     1.01     1.01     1.01     1.01       INTERIME     2.01     2.01     1.05     1.01     1.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME     0.01     0.01     0.01     0.01     0.01     0.01       INTERIME <th>urr         Constant (Constructions)         1.0         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6<th>ij S</th><td></td><td>9.5</td><td>0.40</td><td>0.45</td><td>0.43</td><td>0.52</td><td>0.41</td><td>9.45</td><td>8</td><td>0.3</td><td>0.45</td><td></td><td>0.29</td><td></td><td>*</td><td>0.28</td><td>0</td></th>	urr         Constant (Constructions)         1.0         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6 <th>ij S</th> <td></td> <td>9.5</td> <td>0.40</td> <td>0.45</td> <td>0.43</td> <td>0.52</td> <td>0.41</td> <td>9.45</td> <td>8</td> <td>0.3</td> <td>0.45</td> <td></td> <td>0.29</td> <td></td> <td>*</td> <td>0.28</td> <td>0</td>	ij S		9.5	0.40	0.45	0.43	0.52	0.41	9.45	8	0.3	0.45		0.29		*	0.28	0
Internation         2.41         2.16         1.56         1.57         1.56         1.73         1.56         1.74         1.66         1.73         1.66         1.73         1.66         1.73         1.66         1.73         1.66         1.73         1.66         1.73         1.66         1.73         1.66         1.73         0.61         0.61         0.61         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73         0.73	Initiation         2,41         2,13         2,64         1,37         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         1,34         1,16         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,36         0,31         0,31         0,36         0,31         0,31         0,31         0,36         0,31         0,36         0,31	13		1.1	1.46	1.6	1.15	1.56	1.80	9.1		1.42	3.	2	7	_	3	5	3
If         0.84         0.71         0.84         0.11         0.12         0.14         0.64         0.41         0.42         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.43         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0	If         0.64         0.71         0.84         1.11         1.27         1.16         1.47         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0	43	<u> </u>	11.5	2.15	2.01	.1	2.05	1.07	1.96	-	1.69	<u>.</u>	21.1	3	2	×:	2	
Image: construction         0.40         0.50         0.11         0.06         0.16         0.65         0.11         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.13         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11 </td <th>Instruction         0.48         0.73         0.43         0.41         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65</th> <th>15</th> <td>_</td> <td>0.64</td> <td>0.71</td> <td>9.38</td> <td>1.17</td> <td>1.2</td> <td>1.16</td> <td>1.4</td> <td>3</td> <td>9.9</td> <td></td> <td>0.42</td> <td></td> <td><u> </u></td> <td>6.6</td> <td>3</td> <td></td>	Instruction         0.48         0.73         0.43         0.41         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65         0.65	15	_	0.64	0.71	9.38	1.17	1.2	1.16	1.4	3	9.9		0.42		<u> </u>	6.6	3	
NISC. COPANICATIONS 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	MISC. CONTINUENTIALS     0.69     0.34     0.34     0.34     0.35     0.37     0.37       MISC. CONTINUENTIAL     3.11     3.11     3.11     5.45     0.34     0.35     0.37     0.37       MISC. CONTINUENTIAL     3.11     3.11     5.45     0.34     0.35     0.37     0.37     0.37       MISC. CONTINUENTIAL     0.00     1.11     1.12     0.35     0.37     0.37     0.31     0.31     0.31       MARAINT INVIATION     0.00     0.00     0.01     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01     0.01     0.01       MARAINT INVIATION     0.101     0.01     0.01	1		0.41	() .0	0.5	0.53	0.17	0.60	0.16	0.65	0.68	8. 1		2.0		8	8	
MOID INVICATION         3.21         3.71         5.42         6.64         3.74         6.39         4.34         4.46         4.00         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34         4.34	MODIO Invitation         3.21         3.21         3.21         5.42         6.46         3.78         6.31         4.41         4.46         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41         4.41	1		0.69	22	0. X	0.74	1.21	0.35	0.43	0.0	0.24	0.24	•	2	8 9	2.2	5.5	
ADDAR MUNICATION         0.00         7.14         6.06         6.23         4.14         7.61         7.62         7.70         7.71         0.13           INVACINT (QUINHUI         0.63         1.73         1.73         1.73         1.71         0.61         0.01         0.05         0.01         0.05         0.01         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05 <td< td=""><th>Колая минските         0.00         7.38         7.14         6.04         6.23         4.38         7.65         7.75         7.70           Геналистин         0.15         0.06         7.39         7.14         6.04         6.23         7.14         6.04         7.30         7.14         6.04         7.31         7.12         7.70           Геналист         Голиниц         0.16         0.01         1.00         1.73         1.11         0.02         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.0</th><th>12</th><td></td><td>3.21</td><td>1.7</td><td>5.42</td><td></td><td>2.7</td><td>6.58</td><td>*</td><td></td><td>-</td><td>1.1</td><td></td><td>5</td><td></td><td></td><td></td><td></td></td<>	Колая минските         0.00         7.38         7.14         6.04         6.23         4.38         7.65         7.75         7.70           Геналистин         0.15         0.06         7.39         7.14         6.04         6.23         7.14         6.04         7.30         7.14         6.04         7.31         7.12         7.70           Геналист         Голиниц         0.16         0.01         1.00         1.73         1.11         0.02         0.01         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.0	12		3.21	1.7	5.42		2.7	6.58	*		-	1.1		5				
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TABLE D-23 C-130E ONGANIZATIONAL TASKS FER SONTIE

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42 AUT/2011 07		1	İ	0.2346	•	0.1639	0.1	0.1102	0.1147	0.1	0.2	:	~	9,2056		
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			      	0.0654	:	0.0514	0.1	0.0284	0.0419	1.0	:			Sillo	2010.0	0.071
÷		ar:		0.01/6	0.1	0.0118	•	0.0208	C120.0	•	•	•	.	0.0351	0.0268	0.02 16
÷				SC07.0	0.2	0.13UU	1.9	1080.0	0.0411	0.1	0.1	0.1		0.1024	0.1006	0.1161
				0.2154	5.9	0.1139	0.1	0.0941	0.0966	0.1	0.1	1.0	0.2	0.1351	0.1277	B/(1.0
				0.1266		0.000	0.1	0.0476	0.0479	0.1	•	ŝ	3	0.0620	0.0583	C 190'.
AL SIE ACTION COMMICATIONS			İ	0.0580		0.0462	•	0.0352	0.0306		•	0.1	0.2	0.0795	0.0467	0.040
-				6.0372	••	0.0272	•	0.0144	0.0134		·	•	•	9.0214	0.0144	0.0286
21 ADDD LAVIGATION				0.735	9.6	0.5063	<b>0.2</b>	0.2652	0.2666		:	<b>~</b> .0	•	0.43M2	0.460	0.3519
22 ALONA LAVICATION				. 6733	0.9	0.3358	0.3	0.3903	0.4402	0.6	9.6	9.9	<b>6</b> .0	0.8680	0.0653	0.5(4)
-					•	0.0954	0.1	0.0491	0.0487	•	•	•	3	. 0505	t	
94 PERSONAL CUINERS				0.003	•	0.0029	•	0.000	0.0010	•	•	•	•	0.023		
-				0.001	•	0.0046	•	0.0042	0.0043	.	·	•	•	0.004	9.9 9.1	0.0116
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TABLE D-24 C-130E ONGANIZATIONAL NEHOVAL TASKS PER 1000 FLIGHT NOURS

11         Altrave         A.1           12         cocrett Aus Fist Act         43.2           13         cocrett Aus Fist Act         43.2           14         tabilita cua         32.6           15         tabilita cua         32.6           16         tabilita cua         32.6           17         tabilita cua         32.6           18         tuzio por Porta ri Aut         44.6           19         tuzio taor Porta ri Aut         44.6           11         tuzio taor Porta ri Aut         44.6           12         tuzio taor Autor ri Aut         44.6           12         tuzio taor ri Aut         44.6           13         tuzio taor ri Aut         44.6           14         tai contrati ri autoria ri Aut         45.6           12         tuzio taor ri Autoria autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri autoria ri au			20.02 2.12 2.13	3	1.4		,	2.4	2		2.5	2.6	<b>6</b> .3		
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I I I I I I CONTRAL S I UNDO PRUP FUEL R A MI MITI I LAT FOUR R A MI MITI I LAT FOUR R A MI MITI CONTRAL I C PORTI I CE A MI CONDITIONIUS, PRESSMITATION A MI CONDITIONIUS, PRESSMITATION A MI CONDITIONIUS, PRESSMITATION A MI CONDITIONIUS, PRESSMITATION			1.1	970	11.11	60.6	11.1	41.5	40.5	1TK		9.0	118	9. N	=
TURIO FAR FUEL FILT ANTILLAY FORM FLAIT ANTILLAY FORM FLAIT ANTILLAY FORMULE ALLE CREDILLORDEL, PRESSMITATION ALLE CURDILLORDEL, PARSSMITATION	<b>7 * 3 7 2 2 2 7 7</b>			21.9	12.0	13.3	11.0	11.4	9791	12.0	12.01	8.6	19.9	16.4	1
AUTILIAN FOUR MAIT HITOMAL IC PONELLOR ALE CONDITIONING, PHESSARIZATION ALECTRICA PONE AUPAV	• • • • • • • • • • • • • • • • • • • •		94.0	164.0	97.6	113.7	87.6	07.4	N). B	62.1	24.6	0.0	t in	2:5	
			1.1	16.4	2.0	<b>C.</b> (1	9.4	5.8	2.5	1.1		12.6	1.6	9.9	-
			1.1	6.6	36	44.2	47.4	0.0	22.5	37.2	6.9	60.0	6.03	70.5	
			10.01	5.8	2.5	2.5	25.0	26.4	25.9	23.23	32.0	46.7	11.15	3.4	ž
	201 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 2 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 4 10 1 10 1		1.4	9.16	17.6	13.4	16.2	15.0	43.7	9.1	9.0	13.2	11.2	1.0	2
	* 01 • 02	11.6	12.9	27.6	15.4	16.0	17.0	19.1	19.2	14.3	10.3	32.0	24.4	1.1	2
-		1.93	1.5	2.5	1.1	20.6	16.3	17.4	20.3	11.4	10.2		20.9	23.6	1
46   10(1 0)./			1.4	3.65	29.4	42.1	46.6	4 <b>8</b> .0	19.0	26.0	100.6	K. J	41.4		45.
-		1.5	:	1.1			7.1	6.9	9.4	4.2	6.5	9.1	1.0	1.21	
		5.6	4.0	19.7	6.0	1.5	6.9	6.4	£.5	5.8	1.6	11.0		2.0	
tustmanuls		26.8	4.7	71.7	<b>1</b> .0	24.0	8.S	3.0	9.9	19.1	21.7	27.5	21.2	22.2	2
52 Autor 11.01 12.0	17.2	11.4	11.7	19.9	10.2	22.3	19.0		17.7	16.6	18.8	22.2	21.7	2.5	2
WITWEITMERNL. & MEDING EQUIP.		•	•	0.0	•	0.1	0.1	0.3	0.0	1	•	•	0.7	0	9
	•	1.3	1.1	9.6	6.5	-	6.3	6.3		3		-		2.	•
Wil Cusentical		3.6	3.6	1.4	3.6	3	3.6	3.6	1.1	2.7	2.0	4.4			-
tui Contunt Callors	Ĩ	1.3	16.3	19.1	16.2	14.3	U.J	11.1	12.9	9.2	11.6	17.5	11.2	12.5	ž
64 [III1 MY1006	i.i	16.3	16.7	10.2	16.7	10.6	16.7	16.7	13.9	12.1	14.3	22.5	19.2	20.1	
1	•		10.9	20.4	0.11	11.2	9.2	0.0	12.4	3.6	4.6	6.3		5.2	•
44 III MC/INT CONTINUCATIONS 4.4	-	5.4	6.9	0.4	0.0	9.0	~	•	<b>9</b> .0	3	10.0	2.5	14.8	12.3	•
HISC. COMMICATIONS		21	9.	-	0.2 0.2	2		5.1	1.5	1.6		-	1.0	-	<u>.</u>
ANDID INVILATION	28.2	43.6	\$5.4	0.0	57.6	3	19.1	18.1	N.1	х. <u>ч</u>	31.0	48.4	42.9		\$
MUMH INVICATION	60.6	89.6	\$1.0	0./0	39.0	N.7	69.4	76.2	81.2	59.3	62.1	104.3	100.0	106.4	3
91 GERALIKY CUMINENT		12.9	16.3	38. S	17.6	1.4	<b>9</b> .0	10.3		•••	1.9	22.3			-
FERSONAL CUIMENT		0.0	0.0	•	0.0	••	•	0.0	0.0	0.1	0.0	9.0	8.0	0	•
	1.1	-	3	-	1.2	-	•		-	2.0	2		-	~	-
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					·	İ	Ì	İ	i					i	:
101415			0.00	10.01	1.8	10.00		A60.6	670.1	41.9	27.6		206.0	299.9	3

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62	SYSTEM NAVE	1962•	1965*	1361	1965	1966	1967•	1968	•696l	•0/6T	1/EI	2/61	1973	1974	1975	9761	IS YEAR
=	1 Alacave	8	2.20	8.2	<b>a</b> 't	5.0	4.1	6.9	\$1.5	6.8	1.1	6.7	9.9	8.4	8.8		1.12
12		10.74	6.4	6.24	4.7	1	4.1	•	1.2	10.3	2.5	1.1	4	11	F	3	11
12	I LADING GAR	6.3	6.61	7.44	1.0	2.4	19.6	<b>•</b> •	6.8	6.5		~~	2.9		3	11	8
E	1 11 1CH1 COMINGES	1.12	1.82	1.4	1.8	2	111	-	1017	2.03	~	5.2	-	2.2	2.10	2.1	2.91
2		14.25	13.42	14.05	15.92	12.6	15.45	16.2	13.67	11.19	15.4	12.0	3.11	10.0	3.2	-	11.76
2	•	<u>601</u>	1.23	1.20	1.19	91	1.27	1.6	9.1	1.2	-	1.6	1		2	3	2.1
12	-	11.61	10.92	0.51	6.8)	1.1	6.41	6.9	1.1	7.25	0.0	1.1	2.5	6.3	3		1.4
=	· · · ·	a	2.49	3.5	2.99	9.6	15.6	4.1	3.07	6.03	4.5	9.9	4	5.2	я: Ч	5.0	26.7
12		2.15	2.13	2.51	2.09	<b>c.c</b>	2. M	2.5	2.35	2.27	2.1	1.9	1.4	1.6	3		2.0
13		2.02	1.%	2.05	2.14	2.0	2.50	2.2	2.77	8.3	3.6	2.9	2.7	3.6	3	•	2.2
1\$	I NTORALIC AND PRUMATIC	2.01	1.1	8.8	8	2.0	2.34	3.0	2.53	2.64	3.6	3.0	2.0	2.5	*	9.0	5.5
14		10.20	11.23	6.75		2.5	· 4.73	6.0	1.22	7.20	1.1	5.3	14.0	5.9	3	-	2.16
12			0.77	0.78	9.0	0.8	16.0	1.2	1.10	1.02	•	<b>6</b> .0	a.1	1.0	2	9.1	*
19	<u> </u>	0.57	0.58	0.61	9.6	1.6	0.0	1:1	0.91	(6.9	°.	-		1.2	-		
13		8.0	0.65	4.66	1.41	2.9	1.79	3.0	4.73	9.1		4.0	2.2	3.0	8	~	26.7
:3	_	2.2	1.21	3.03	16.2	2.1	. 2.96	3.2	2.94	<b>8</b> .2		1.6	4.4	2.5	9	~~	2.94
3	<u>.</u>	•	•		•	0.0	•	0.0	9.0	a.0	0.0	•	'		9.9	0.0	20.0
13	_	0.74	0.71	0.75	0.78	1.0	0.89		3.0	1.02	- -	1.1	1.0	1.0	2		8
29	_	0.78	0.67	0.63	0.6	0.8	9.6	0.6	0.56	0.55		•	0.4		3	9	3.
15		8.2	2.18	2.49	2.70	1.9	2.71	2.0	2.28	2.20	2.3	0.2 2	2.1	-		2	2.2
3	INITAN	3.61	3.12	2.90	2.77	6.1	2.71	1.6	2.59	1.53	~	2.6	2.1	2.5	2.2	2.5	3.
5		1.04	1.12	1.53			1.8	2.6	1.0	1. X	2.2	•			0.0		1.6
:3	C INWARCY CONSULTATIONS	3.0	8.9		0.94	0.0	1.14		1.2	я: 1	0.9	1.1	1.5	2.6	2.10	9.1	1.73
5		0.45	27.0	8.0	9.8	•	0.22	0.5	0.25	•	0.0	0.5	2.0	0.2			0.27
5	_	4.74	5.26	1.57	2.6	5.7	5.5	6.0	2.14	3.		5	÷.	-	3	3	61.7
2	RADAR HAVIC	8.0		10.19	9.6	9,2	<b>6</b> .3	11.2	10.75	11.55	11.2	12.3	5.6	11.6	14.15	13.6	10.21
16	_	8	!_	2.2	1.1	1.1	~	2.5	2. M	2.02	2.0	-	-			1.2	2.2
• X	6 PERSONALL CONTINUES	8.9		.8	8	0.0		0.0	0.0	8.0	0.0	••	•	0.0	8	0.0	8
		0.52	Ŧ	8.9	•.23	0.2	0.19	•	0.75	0.24	9	•	-	0.0	2.0	•	0.27
! !						-   -											
	10	100.00	101.00	100.00	100.00	100.0	100.00	100.0	140.00	308. BD	100.0	100.0	100.0	380.6	100.0	10.0	8.8
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## TABLE D-25 C-130E PERCENT DISTRIBUTION OF ORGANIZATIONAL MEMONAL TASKS

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TABLE D-26 C-130E ORGANIZATIONAL REMOVAL TASKS PER SORTIË

SYSTEM ILANE	1962•	1963*	1961	1965•	1966	1967	1963	•6961	•0/61	1/51	2701	£/6T	1974	s/6t	19/6	12 YEAR AVE DIGE
				0.0044	~	0.0412	80	0.0477	0.0070	50.	8	41.	.22	0.1070	0.1943	1211.9
COTALL AND CINERALS				0.1251	17		20		0.0629	10.		8	31	101.0	0.1162	<u>-0.0076</u>
LAMING CLAP				0.2104	Ē	1(1) .0		0.00.0	0.0444	6.	ar.		1	- }	B.069B	9,1118
ti tere contants				0.0405		1	a.	0.0246		6.	.0	9.	8	0.0417	0.923	0.035
TIMON PACE POLE PLANT				0.4157		9	2	0.1656				5.	2	197	0.1948	0.2410
AURI IAR POLE MAII				210.0	1			•	0.0169	20	8	9	5	- 1	B.0279	<b>0.0266</b>
UTCHAIA IT PROPIALS				1911.0	12	0.1157		1	0.0927			с.	2	0.1692	0.2025	0.1241
Ale countriending PRESSIE(281608				0.0779	·	1		9	0.0516			8	ž.	0, 1055	0.1017	0.0747
CLECTRICK POLE SUPPLY				0.0753	1.	1		a	0.0291	01	0	ŝ	ð.	9.0316	1010	0.0507
I ICHTHE AVAILAN				0.0559				0.0316	ł,	ą.		20.	5	0.06BB	0.011	0.0523
The second second second second second second second second second second second second second second second se				10.050	1	0.0416	ļ	0.020	ALCO.0	so.	10.	20.	8	0.0549	0.000	1.051
				0.1403	2	1		0.0601	0.0931	0.	(a.	.26		0.1167		a. 1080
DITE	F	4.1	3.1	0.0212				0.0134	0.0100	10.	10.	80.	9	10.0223		0.010)
M14C 11111 1116		 		0.017		0.0144	ō.	0			20.		8	0.0237		0.0198
1 SIN FAILE	941		-	10.1936	5	0.136/	90.	0.0576		1	8	8	8		0.050	9560-9
AutoPicot	130	30	120	0.0764	8	0.0526	રં	0.0359	0.0149	5	8		9		0.0562	0.6514
HAU SINCTION AUAL . A RECOMPTING EQUIP.	110	مر	22	•	•	•	•	0.000	0.006		•		·		0.000	0007
		   	<b>x</b> y	0.0204	10.	0.0159	20.	0.0119	0.6130		ġ		3	0.0257	0.0276	0,020
WE COMMICATIONS	110	 	170	0.0156	.0.	0.0104			0.00.0		<u>.</u>	9	e		6.00.0	0.116
nul Coccawications				0.010	<u>o</u> .	0.0481	6	0.0278	0.6281			•	8			0.0401
				0.0/23	9	0.0483	20.	0.0316	0.024	â		2	a.	0.0541	0.0513	0.012
				0.0472	8	6.0327	Ca.	0.0174	0.0175		10.	ē	ä	0.0161	10.0	0.02
LIGERS HEY CONDUCTIONS				0.0255	•	0.0202	<u>a</u> .	0.0155	0.0171	ō.	20.	9.	ĵ.	0.0417	(10.0	0.0202
				0.00/0	õ.	0.0054	10.	0.00.0	0.6029		10	•		0.0024	0.0026	0.0059
AARA WAVICATION				0.2407	2	!		0.0071	0.0015	<b>(0</b> .	8	8	¥.	0.1210	0.1076	<b>.</b> 1706
PADAB MAVICATION				1111.0	×.	0.1123	151.	0.1312	0.1178		17	91.	8	0.2820	0.2745	0. 1924
SHEEL SOUTHER				(2/0.9	1	0.0506		_	0.0258			Ģ	ò.	1020.0	0.0255	0.913
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TABLE D-27 C-130C, ONGANIZATIONAL NENDRE AND NEMACE. TASKS PEA 1000 R.LENT NOMES

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	=	AIRIENE			7								<sup>-</sup>					
	21	COCYPIT AND FUSICARE		111		-												_
	įs	I MIDING GLAB	23.6	26.1	21.6	21.6	4.2	X.5	19.4	2.1	2.2						TIN I	
	1	to trut childred C	1				13.4		9.4	6.9	1.1						9 6.9	
					i													
	22	TURBO FRUP POLER PLANT	(5.5		13			   										_
	12	AUTILIANY POLE RAIT	4.6		5.0	•	11.6	6.7	1.7		6.3		•	-				
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	2	ELECTRICAL POWER SUPPLY	2	9.2	10.6	12.6	13.0	12.7	11.0		0.0							
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	\$	ITTLATA IC AND PINUMATIC	•															
1	146	Auth	2.1.4	20.6	14.0	0.0		8.2	15.7	1.0	13.4							
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i	3	HISC. UTA INIC.		2.3	2.6				0.0	:								
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	3	INTERTINGTION AND . & RECORDING EQUIP.	•		•	•					   							
	19	IIF LATAVICATIONS	1.1	1.1	-			~.0	••									
	;; 3	wir eretannte Altows				1.6	<b>c</b> .3		2.8	1.6	1.6			-	-	<u>.</u>		
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	21	HISC. CONTRACTIONS																
	2	RAULD LIAVICATION	~.	10.7	1.1					3			=					
	22	KADAR NYYEATION	0.0	11.7	14.2	12.6	1.1				5.0	9.1			14.	.4 10.1	25.6	
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		10141 \$	2.035	270.7	211.2	10.00	591.5											

TABLE D-28 C-130E FERCENT DISTRIBUTION OF ORGANIZATIONAL REPORT AND REPLACE TASKS

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D. SYSTEM NAVE	INE	1962	1963	hori	- (96.7	9051	-/10.1	Tor!	F.OF.T	- Nii	1/51	2/61	19/3	¥/61	5/61	9/61	
11 AINTANE		2,06	<b>1</b> .M	1.12	1.20	4.03	1.11	2.00	8.5	3.4	12.1	1.2	3.25	N.	1.01	4.H	27
22 COCIDIT AN FUSITAG		0.94	1.03	5.43	W.C	101	3.62	1.03	WI .	11	191	NA	1.2	31		3.9	Ŧ
1) I MIDIM ELA		9.14	9.6	10.15	10.46	13.92	N.21	11.43	12.1	1.1	12.9	1.1	-	1.2	9.9	-	Ria
14 FLF & CONTROLS		2.05	2.03	1.03	1.11	2.21	1.00	2.M	1.11	10.2	Ni	9.1	1.12	2.65	8	N	877
22 TUNNO PADP POKE MANT		17.42	10.29	10.09	19.25	15.65	10.M	19.07	11.11	16.94	9.34	17.20	16.00	16.25	16.01	15.21	17.46
24 AUTILIANT POLA NAT		1.1	1.2	1.61	1,51	.2.20	9.1	1.67	1.75	1.76	2	2.00	2.12	2.14	2.02	1.6	2.1
			2.6	3.9	1.25	4.21	1.1	6.69	4.70	4.76	3.6	6,11	4.6	((.)	6.59	5.44	4.2
÷	(SUA12ATION	1	13	4.05	1.0	6.16	4.69	1.1	9.8	6.0	6.85	16.9	1.44	9.6	1.94	7.16	6.5
	<b>N</b> 1	2.75	1.01	3.01	3.64	2.23	3.5	2.57	31.1	3.04	10.46	2.07	1.16	1.92	2.2	2.47	9.X
41 LICHTING SYSTEM		1	2.2	3.63	3.5	19.9	4.15	2.8		6.10	1	4.6	6.22	7.31	7.16	0.73	4.7
ATTIMUTE IS AND PACINALLY	115	2.02	3.16	3.0	3.8	4.33	2.2	4.8	3.07	4.07		1.17	1.16	4.61	1.25	6.6	3.15
<u> </u>		10.6	7.61	3.	2.62	1.24	8.8	3.41	3.72	2.2	-	1.1	3.42	4.4	5.10	10.9	3.65
-		1.70	1.26	1.19	1.17	1.34	1.79	1.48	1.4	1.63	1.2	1.8	1.67	1.97	1.22	2.10	1.45
49 MISC. WILLINES		¥. •	9. B	0.6	0.0)	1.22	1.07	1.0	1.19	1.36	1.19	1.2	1.8	8.8	1.92	10.2	1.77
_		8.0	2.1	1.70	8.11	12.15	12.21	1.16	1.93	7.44	8	6.0)	6.00	S. M	6.11	S.45	6.22
÷		8	1.1	3.6	3.8	1.97	1.1	3.4	3.49	1.61	3.62	4.07	3.6	1.17	3.43	3.10	1.6
<u> </u>	ACONOMIC COUP.		ŀ	•	•	•	•	•	•	•	•	•	·	•	9.8	0.03	9
		3	9.6	15.0	0.52	0.65	0.66	8.1	0.66	0.71	8	8	0.03	<b>8.</b> 6	0.76	0.6	0.67
<u>.</u>		0.62	6.59	0.61	0.47	0.45	0.45	0.61	0.46	0.45	3	9.6	9.6	N. 9	9.0	0.26	.4
I IN COLOMICATIONS		8.7	2.03	2.16	12.2	0.0	2.19	1.11	1.96	1.92	8.9	2.1)	2.27	1.42	1:16	0.0	1
M INENDE		Ĩ	1.11	9	3	2.0		8.1	1.01	3.5	10.1	2	3.64	4.4)	4.85	8	3.4
65 115			¥.•	1.22	3	1.06	1.2	2.5	1.15	1.13	2.16	6.67	0.45	0.43	0.52	¥.•	
	1 Dets	X	1	. X	9.X	.0	8.9	3.4	0.46	•.51	0.29	0.67	9.6	1.3	¥	9.9	-
_		8	9.0		3.0	0.7	0.51	0.41	0.0	0.40	×.	9.9	0.42	8.9	0.0	0.25	.4
PAULO MATICATION		9. R	3.95	8.9	6.15	2.54	6.12	6.24	6.01	4.4	8.9	6.17	4.9	<b>8.</b> 2	2.63	1.41	5.d1
ADAM INVIGATION		9	2	. 2	3.67	1.09	2.67	0.41	1.0.1	6.23	10.15	1.14	8.7	10.5	9. <del>9</del>	2.93	4.5)
ENENCINCI CONTINUE		Ē			3.8	6.63	3.8	2.2	3.04	8.9	2.5	2.20	3.0)	3	1	10.3	19.1
PLASONEL EQUINENT			8	9	8.0	N.	ŀ	ŀ	8.9	8.9	8	0.0			8	•	8.0
DI CINCON MUCCS		2	2.0				0.3	<b>.</b> .		9.4		9.9	9		9.9	3.0	
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TABLE D-29 C-130E ORGANIZATIONAL REMOVE AND REFLACE TASKS FER SOATIE

New Providence

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HU SYSTEM NAME	JONET	COCT .	hori	- 0061	4/61	/06.1	PORT.	-6461	•0/6f	1/61	9/2	5/61	1974	4/61	9/61	AVENCE
				0.0191	0.0	6/10.0	0.02	0,0149	0.0169	0, 4215	9	10'0	<b>6</b> ,05	0.0172	0.0408	
tratelt an sustinct		i i		0.0569	0.0	(((0,0		0.0306	0.0316	0.0217	j	30	9.9	0.0111	0.0009	
<u> </u>				0.1554	0.29	0,1055	0,16	0.0612	0.0625	0.0780	0 0	20	0.9	0.0598	0.0555	:
				0.025	2	A.0165	20.0	0.0130	0.0118	0.0250	<b>0</b> .02	1 62	10.0	0.0192	0.0178	0.0216
<u></u>				0.2662		0.1945	0.17	0.1140		0.0703		64	9. W	0.1554	0.111	0.168
-				0.025	10.0	0.0165	0.0	0.0115	0.0122	<u>ا</u>	0.02	0.02	0,0)	0.01M	C.0144	0.0204
_				0.0412	8	2010.0	8.9	10.0	1	i	2.3	10.0		0.0516	0.0591	
AL ALE CONTRICTION DEFICIENTION				0.04		0.0403	0.0	0.000		1	.0	0.0	0.11	0.0733	0.0679	
TI CLAICE POLE SUPLY				0.0501	0.0	(90.0	0.02	0.0208	0.0210	1	0.02	<b>6</b> ,02	9.0	0.0214	0.0222	_
				0.0513		0.0428	0.01	0.0123	0.0155		9.6	<b>8.0</b>	0.M	0.0660	M(0.0	0.0514
AL INVENTION AND PREMARINE				0.0446	0.9	0.0344		0.0255	0.0215	0.4792	9.0	9.9	9.0	0.01K	6. OLES	
-				0.0390	0.0	0.0237	0.0	0.0246	0.0260		0.03	0.03	<b>0.6</b>	0.017		_
				6/10.0	0.01	0.0131	10.0	0110.0	0.0105	0.0112	10.0	10.0	9.0	9.0164	0.01M	_
÷				0.0100	D.04	0.0110	9.0	0.0045	0.001	0.0101	10.0	9.92	0.03	9.0174	1910.0	
		i i	216	0.1754	0.25	0.1257	0.04	0.0524	0.0510		9.0	• 8	(0:0	0.0527	0.0415	
				0.0498	0.01	0.0344	0.03	0.0231	0.0241	0.0322	9.9		9.9		0.027	
	191		 1903 1	•			•	•	•	•	•	•	•	0.000	000.0	
LE CEAMICATIONS	  130 	) 130	130	0.001	0.01	0.0058	10.0	0.0043	0,0019	0.0072	10.0	10.0	0.0	1/00.0	.0052	
D WIE CE SAMILEATINS	1	14	عا ا	0.0049	10.0	0.0046	0.0	0.00.0	0.001	9.0046		•	•	(100.0	e.003	
	    1	1         1	 11 7 	0,029	0.0	0.0225	0.02	0.0130	0.012	0.4210		9.02		0.0107	9.000 9	
<u> </u>	1	140	1 720	0.0606	0.0	0.0405	9.6	0.0265	0.0272		3.	0.0	0.06	0.0454	1(10.0	0.0340
		-		0.0200	0.02	0.0142	20.0	0.00/6	0.0078	MI0.0	1	•	0.0)	0.0048		3.0125
AL FIRENCIAL CONDUCTORIS				0.0052	•	0,0040	•	0.000	0.0015		10.0	5	9.0	1000.0		
				0.0074	0.02	0.0052	•	0.0028	0.0027	100.0		•	·	SHOR .	.003	_
				0.0914	0.05	0.06.00		1110.0	0.0332	0.429		N.O	9	0.0243	0.0126	_
_				0.0546	0.0	0.0275	0.0)	0100.0	0.0359			<b>N.</b> 0	<b>0.0</b>	9.0406	0.0751	_
_				0.0559	11'0	(90.0	0.03	0.0200	0.0196	0.4270	20.0		9.0	6.0136	9.9161	1/10.9
				0.000	ŀ	.	.	0,000	0.000	. eoo	ŀ	•	ŀ	0.000	•	- 0,000
9/ CIMOSIVE OVVICES				0.0012	10.0	0.0032	•	0.0020	100.0	8.94	<b>.</b> .	•	0.0	0.0039		
										İ			İ	İ		;
									İ	i			İ			;
This c				1.4465	2.11	1.020		0.6600	· <b>J. GREG</b>	0.MX	0.0	8.0	1.23	0.923		1.0104

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	7061	1963•	1964	1966*	9961	1967•	1968	•696T	•0261	1791	1972	1973	1974	1975	9761	Nicket
		:	-	12	8	1	3.5	.,	1.4	14.4	10.1	6.3	9.9	6.4	5.2	4.2
						-	3		1.2	1.1	C.1	1.0	2.4	1.0	2:0	11
_		3.						1.2		2.2	2.2	1.7	0.9	2.0	1.5	1.7
_								1.0	1	6.9		9.4	0.6	0.6	9.6	•
						1	0	1	2.6	9.4	1.1	• •	1.1	1.0	2.9	3.2
							1		0.0	9.9		:	9.0	1.6	1.5	
									1	12	2	-	11.3	24.0	34.6	1.1
22 HITORALIC MOMILIES								9.6	9.6						•.1	0.6
_								1.5	1	12	1.	•	••	0.9	9.4	1.5
									1	0.2		:	0.4		9.2	0.2
							12	0.2	2.0	1.0	1		0.1		•.1	9.2
-							1.19	1	3.6	1.	•••	:	1.2	1.9	1.1	9.0
							6	6	1	1.0	0.1		•.1	0.0	•	-
_				1					0.4	1.0			0.5	••	•	•
40 MIST. UTMITTES				10			1	0.4		0	0.1		0.1			•
		1.5 -	0.2	0.2	1	~	1		0.2	1.0	-		0.1	9.0	0.0	~
	ŀ	ŀ	•	•	ŀ	•		•	•		•	•	•	•	•	•
55 NU FURTION AND	1	.0.0	1.9		1		:	1		•	0.0	•	0.0	••	9.0	••
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NISC. CGR4UNICATIONS 6.0017		8	<u> </u> .		,	•	•	·	•	•	0000
	.012 0.0012	1		9.0006		•	•	•	0.000	0.0000	0.000
	- 1100.0 6HO.	10.	<u>.</u>	0.0019	 	•	8	•		0.6001	0,0022
	100.0 500	8	0.000	0.004	•	•	•	8	0.00	9.8	0.0072
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. 0.1X5	6360.0 112.	.212	9.4639	1670.0	ŝ	100.	3	101	0.1244		0.117

TABLE D-32 C-130E ORGANIZATIONAL REMOVE AND REINSTALL TASKS FER SORTIE

201

TABLE D-33 C-130E INTEMEDIATE TASKS PER 1000 FLIGHT NOUNS

Alleronet         12         12         12         12         12         12         12         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13	2	SYSTEM NAME	1962*	1963 •	1964	1965•	<b>1966</b>	1967+	1968	•6961	1970•	1/61	1972	1973	4/61	1975	97 <u>61</u>	IL TLM ANEAUZ
Constrict May FigHtad         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May         Constrict May <thconstrint< th="">         Constrict May         Const</thconstrint<>							X.2	6.	25.1	14.0	15.5	11.0	0.0	נית	1.15	21.6	1.1	ä
Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition         Condition <thcondition< th=""> <thcondition< th=""> <thc< td=""><th></th><td></td><td></td><td>11.2</td><td>1.2</td><td>26.35</td><td>99.3</td><td>25.1</td><td>5.11</td><td>1.16</td><td>21.9</td><td>8.0</td><td>1'8</td><td>M.S.</td><td>20.6</td><td>3.6</td><td>26.2</td><td>×</td></thc<></thcondition<></thcondition<>				11.2	1.2	26.35	99.3	25.1	5.11	1.16	21.9	8.0	1'8	M.S.	20.6	3.6	26.2	×
			115	1.1	5.83	66.0	-	67.3	7.2	<b>59.7</b>	51.2	2.12	12.0	1.11	99	0.9	113	3
Matrix matrix         State         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold         Hold			13	1	1.5			5.2	1.1	6.1	6.3	10.2	-	5.6		6.8		
ATTURINF POLA FAUT         5.3         5.4         6.1         6.2         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1         6.1 <th6.1< th="">         6.1         <th6.1< th=""></th6.1<></th6.1<>			98.4	107.2	12.21	1/11/	146.3	146.6	16.6	120.5	179.4	160.9	35.5	FUL	10.2	119.61	115.0	18.
Alto Combinition         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01 <th01< th="">         01         01</th01<>	-	LIVE LANY PRAD MART	3	5.5	5.2	6.0	11.2	5.9	11.2	7.0	د.ر	1919	4.1	-	10.1	•	2:01	
All COMPITIONING, INTSOMITATION         7.1         6.0         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         6.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1         7.1	512			3.0		40.7	68.0	3.2	1.0	46.6	1.1	63.8	17.6	62.7	42.7	17.1	47.6	3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	*[=	ALLERA IL FROMENCE PARSUALZATION	17	0.0	9.6	10.01	28.7	12.0	2.5	13.9	14.4	19.6	15.6	17.2	10.7	10.5	8.3	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1	CLEATING AND SUDAY		9.6	12.3	14.6	27.62	14.1	26.0	12.6	12.6	12.1	8.4	1.11	12.6	11.6	10.4	a
Intravatic         64         70         70         105         95         114         113         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         72         114         114         72         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114         114	÷ļ3	I ICUTING SYSTEM	2.2	2.5	.1	1.4	5.1	2.5	2.5	(.)	4.6	6.8	5.2	6.3	6.0	•		
Interact network         12,9         11,4         7,9         5,0         5,1         1,3         6,6         1,3         1,4         7,3         6,6         1,3         1,4         7,3         1,5         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,3         1,4         1,4         1,4         1,4         1,3         1,4         1,4         1,4         1,3         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4         1,4 <th1,4< th="">         1,4         1,4</th1,4<>	-1:	THURSDAY IS THE PREMATIC		7.0	~		19.5	12	2.5	11.0	11.7	22.6	11.6	10.6	16.3		9.2	2
Distribution         2:8         2:9         3:1         3:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1         4:1 <t< td=""><th></th><td></td><td>12.9</td><td></td><td></td><td>5.0</td><td>5.7</td><td>4.5</td><td>12.9</td><td>1.2</td><td>7.4</td><td>د.۲</td><td><b>6.6</b></td><td>7</td><td>21.6</td><td>-</td><td></td><td>2</td></t<>			12.9			5.0	5.7	4.5	12.9	1.2	7.4	د.۲	<b>6.6</b>	7	21.6	-		2
HIST: FINE     1.9     2.2     2.4     3.2     1.4     3.1     1.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1 <th< td=""><th>12</th><td>141</td><td>2.6</td><td>2.9</td><td>1.6</td><td>1</td><td>5.5</td><td>3.9</td><td>6.1</td><td>1.1</td><td>4.6</td><td>9</td><td>3.6</td><td>3</td><td>3</td><td>4.5</td><td>5.5</td><td>7</td></th<>	12	141	2.6	2.9	1.6	1	5.5	3.9	6.1	1.1	4.6	9	3.6	3	3	4.5	5.5	7
Incliments     0.0     2.0     2.0     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1     2.1 <th< td=""><th>15</th><td></td><td></td><td>•</td><td>2.2</td><td>2.5</td><td>8.2</td><td>1.1</td><td>1.1</td><td>-</td><td>4.0</td><td></td><td></td><td>3</td><td>3</td><td>9</td><td></td><td></td></th<>	15			•	2.2	2.5	8.2	1.1	1.1	-	4.0			3	3	9		
Autoritiet         20.1         21.1         21.4         22.1         22.1         22.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2         24.2	Pį S	1.4.1 Martin 15	0.0	2.7	20.5	1.2	74.4	X.7	21.1	23.4	22.2	2.8		2.4	8	22.1	23.6	×
INJ FUNCTION APPL     APPL     CO     -     -     -     0.1     0.0     -     -       IN FORMICATIONS     1,1     1,3     1,3     1,3     1,3     1,3     1,3     1,3     1,3       IN CONTRACT     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1	ijŞ	•	20.8	21.1	21.4	21.6	28.7	22.3	24.6	22.9	2.02	2.92	3	27.	20.1	2.2	- 22.1	2
If Consultations         0.0         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1	13		0.0	•	٠	•	•	•	0.1	•	0.0	•	•		•	2		
NIX GENERICATIONS         4.1         4.1         4.1         4.1         4.1         4.1         4.1         4.1         4.1         2.0         1.1         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0	13		1.0	1.1	•••	5.3	11.6	6.2	15.0	2	7.6	3	3	3	•	9.9	11.6	
UNI COMMITMUM     No.1     No.1     No.1     No.1     No.1     No.1     No.1     No.1     No.1       INTERNOL     13     13     13     13     13     13     13     13     13     13       INTERNOL     13     13     13     13     13     13     13     13     13       INTERNOL     13     13     13     13     13     13     13     13       INTERNOL     13     13     13     13     13     13     13       INTERNOL     13     13     13     13     14     14       INTERNOL     13     13     13     14     14       INTERNOL     13     13     13     14     14       INTERNOL     13     13     13     14     14       INTERNOL     13     14     13     14     14       INTERNOL     13     14     13     14     14       INTERNOL     13     14     13     15     14       INTERNOL     14     14     13     14     14       INTERNOL     14     14     13     14     14       INTERNOL     14     14     14	15	· · · ·	1	4.4	4.4	4.4	9.6	-	6:3	3			2	-	3	3	2	
Initimization         0.3         0.3         0.3         12.6         0.3         15.6         0.3         10.6         10.6         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3	11.5	THE CORTANICALIONS	15.1	16.0	20.6	23.5	22.2	21.0	27.2	31.1	20.9			-	<u>2.</u> 2		21.0	-
Iff     5.1     6.3     6.4     0.6     1.0     1.1.3     2.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3     1.1.3 <th>13</th> <td></td> <td></td> <td>6.9</td> <td></td> <td>1.9</td> <td>12.5</td> <td>8.9</td> <td>15.6</td> <td>8.9</td> <td>-</td> <td>0.7</td> <td>3</td> <td></td> <td>20</td> <td></td> <td>57</td> <td></td>	13			6.9		1.9	12.5	8.9	15.6	8.9	-	0.7	3		20		57	
Finence         7.6         6.6         7.6         10.7         11.7         11.5         16.4         16.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6 <th< td=""><th>11</th><td></td><td>1.3</td><td>6.5</td><td>9.6</td><td>11.4</td><td>22.3</td><td>12.2</td><td>24.2</td><td>10.0</td><td></td><td>3</td><td>2</td><td>-</td><td>9.9</td><td></td><td></td><td></td></th<>	11		1.3	6.5	9.6	11.4	22.3	12.2	24.2	10.0		3	2	-	9.9			
NIX. Contanticitation     35     270     211     1.4     2.1     1.3     1.4     1.4     0.4     7.4       build invitation     24.0     27.1     45.7     63.4     64.1     65.3     63.5     73.5     73.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5     13.5 <t< td=""><th></th><td>FIN REENCY CONNENTICATIONS</td><td></td><td>9.6</td><td></td><td>10.6</td><td>11.1</td><td>12.5</td><td>16.4</td><td>3</td><td>15.6</td><td></td><td>;</td><td>23.0</td><td>Î</td><td>2.2</td><td>21.9</td><td>27</td></t<>		FIN REENCY CONNENTICATIONS		9.6		10.6	11.1	12.5	16.4	3	15.6		;	23.0	Î	2.2	21.9	27
BODIO Invitation     24.0     27.2     69.7     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     64.1     6	13	HISC. CONTINUES	i.	2.0	2.0	1.1	1:1	<b>?</b>		-	-			~	-	-	1.0	<b>N</b>
Duck Anticities         0.0         72.2         69.4         61.7         114.a         46.6         113.1         47.7         49.7         97.4         67.4           INARCINC CONTRACT         1.6         2.2         3.4         4.4         9.1         4.6         113.1         47.7         49.7         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.4         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6         67.6	12	RADIO LAVICATION	24.8	2.2	19.7	63.6	5.1	5.1	6.03	2.3	51.6	5:0	3.4	1.1	3	4.5	1.1	
INAUTICY: CQUINENT     1.6     2.3     3.4     4.4     9.1     4.6     1.7     3.5     3.7     2.6       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0     0.0     0.0     0.0     0.0     0.0     0.0       P(LSCONAL. CQUINENT     0.0 <th>12</th> <td>RAMAR MAVIGATION</td> <td>0.0</td> <td>12.2</td> <td>6.9</td> <td>61.7</td> <td>114.0</td> <td>9.9</td> <td>1111</td> <td>1.a</td> <td></td> <td></td> <td>5.5</td> <td>0.6</td> <td>121.6</td> <td></td> <td>1.96.4</td> <td></td>	12	RAMAR MAVIGATION	0.0	12.2	6.9	61.7	114.0	9.9	1111	1.a			5.5	0.6	121.6		1.96.4	
Fitsburk Contremi         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0		IN RELICY CULLENCH		2.2	1.1	1.4	1,0:	-	13.4	2	5.	2	2	3	2	•		
	3	PEASOURL COUPPENT	•	<b>0</b> .0	•		-•		•		0.0	•	۰İ	•	•	•	۰ļ	
	12	EAM OSIVE DIVICES	0.0	•	•	0.0	•		•	-	•	•	•	•	۰İ	•	•	
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2 CU 1 222 1 CU 1 CU 1 CU 1 CU 1 CU 1 CU	1							2	A3.0	1.00		100		6.83		631.9	12.6	1
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11 AttAnt 11 AttAnt 11 AttAnt 11 Attant 11 Attant Cathant 14 Attant Cathant					-	-										
					1	1.42	10.0	2.2	2.61		1.6	1.23	3.19	1.42	3.22	2.2
· · · ·							18.4	6.21	1.1	4.5	6.24	16.31	11-1	14.2	1. IL	H-9
<u>``</u>						12.11	10.0		9.6	5.64	6.71	1.11	9.25	3.6	21.9	21.0
				N	8	10.0	1.3	1.	1.02	1.67	1.20	1.03	1.17		9	9.1
AN TUBAN AND BALED & ANT		<u> </u>		21.00	12.2	24.33	19.01	21.65	21.03	24.50	19.01	10.74	17.21	18.96	15.07	21.64
2.6 LUMU FAM TOWER TOWER		1	1.01	1.01	1	1.09	1.1	1.16	1.18	8.0	0.45	1.27	1.45	1.42	1.4	1.1
	57 T	[		6.8	2.02	6.55	1.61	1.7	7.63	17.6	9.07	8.24	6.22	5.07	6. E	1.6
_ <u></u>			91	1	8.2	2.01	2.71	11.2	2.40	2.90	3.24	2.69	2.60	2.93	8.8	2.2
AL ALA CURLETAN PARTA CURAT	10.2		2.2	197	2.6	2.41	1.0	2.12	2.04	N.I	1,74	1.73	1.80	3.1	2.54	2.10
يسفعه	0.15	0	9.6		0.75	0.62		B.71	0.75	1.9	1.0	0.01	0.72	. 0.62		5:0
÷.	9	17	1		2.01	1.62	2.67	1.03	1.90	3.44	2	1.66	2.3	1.62	1:3	2.1
		2	1	1	0.69		1.53	1.19	1.20	1.11	1.11	1.11	1.65	7.1	1.21	1.16
	0.65	0.50		13.0	3.0	0.65		-	0.75	2	0.75	0.61	6.47	•.2	9.X	9
	0.40		9.0	0.0	21.0	0.52	1.8	9.6	0.65	0.45	9.6	0.69	0.83	0.71	2.0	3
_	8.0		1.5	15.76	1.1		2.5		3.60	3.15	3.6	3.66	4.2	3.7	2.2	1.1
_	5.2			3.61	8.2	1.73	2.2	8	3.76	2.9	3.90	3.8	4.02	3.5	3.05	2.1
_	<u> </u> 		.	<b> </b>	•	•	0.0	8.0	.8		•	٠	٠	0.03	0.07	
	1.00		1.0		13.1	1.01		1.10	1.2	2	1.16	N.0	1.42	3	1.60	1.1
	1.10		0.8	1.0	6.9	11.0	0.75				9	0.22	0.42	9.02	0.55	2.0
	6CT	3.40	1.12	1.6	2.3	4.01	1.22	3	1.19		2.86	2.8	1.54	3,6	2.80	
	1.1	ļ	19-1	1.5	1.79	1:0	1.85	1.40	1.4	2	1.1	1.30	1.53	<b>X</b>		3
	1:1		1.2	1	8.2	2.04	2.07	1.66	1.59	2.2	<b>.</b>	0.54	9.94	8.0		3.1
24 CIV COMMUNICATIONS		1.1	1.1	1	1	5.09	1.94	2.42	2.53	2.22	9.1	3.56	4.11	8		***
A NIC COMMENTIONS	0.11	1	0.X	. 15			0.15	0.22	0.29		3.1	0.0		20.0	10.0	
2	12:3	6.51	86 . V	10.70	6.62	10.99	7.22	1.74	<b>. X</b>	6.62	6.95	2.2	29.7	1,22	1	2 <b>.</b>
_	8		32.64	10.36	11.05	2.79	11.40	13.72	11.73	11.13	11.02	2.0	2.4	19.41	-1	12.7
· · · ·			0.61	0.74	1d:0	0.77	1.47	0.61	0.57	3.0	0.54	9		8	-	
_	90.6	.8	9.0	0.0	<b> </b> .	8.e	•	8	0.0 8	•	•	•	•	•	•	
97 CEMOSIVE DEVICES	0.8	8.0	8	0.0	•	9.6	•	0.0	0.0		•	·	•	3	•	8
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10145	100.00	100.001	100.00	100.00	100.001	300.00	100.00	100.00	100.00	100.00	100.00	100.00	8.8	8.8	8	100.00

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TABLE D-34 C-INE PERCENT DISTRIBUTION OF INTERVEDIATE TASKS

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TABLE

10.		1962•	1963•	1961	1965•	9961	-/96T	1968	1969	-0/61	1/61	1372	5/61	1974	1975	1976	
AIRFANE					9(0)	0.16	3110.0	0.05	0.0265	1009.0	C, 03.	9	9.8	9.0	0.0409	0.0601	0.0525
12 COCIPIT AND FUSILAGE					0.1139	0,40	0.0725	0.04	0.0513	0,0612	70'0	9.0	12.0	9.0	1.0276	e. 1%4	0.124
13 LADING GEAR					0.2854	0.43	8, 1945	0.15	<b>6.1126</b>	21119	8.9	0,12	9.12	6.12	0.1692		0.1749
FLICHT CONTROLS					0.0229	0.04	0.0165	0,02	119.9	0.0122	9,9	9.05	39	1.0	0.0164	0.0150	
22 TURAD PHOP POLER M AUT					0.6136	0.61	A.4208	e, X	0.2466	0.2519	×.	0.27	9.9	9.X	A100.0	0.7367	HIX.
24 AUXILIAAY POUCH PLANT					0.0260	9.06	0.0164	0,02	0.0112	0.0142	10.9	10.0	0,02	0.03	0.0254	0.0263	0.0220
32 HYDRALE IC PROPELLER					0.1762	0.28	6.1133	0.12	G. CAA1	0.0914	• •	0.13	0.14	0.12	0. 1046	<b>6.</b> 1225	0.1341
41 ALA COMPISIONING, PRESSURIZATION	1100				D.0433	0.12	0.0147	9.0	0.0263	0.0287	0,0	9.6	0.04	e.05	0.0522	0.0524	0.0459
12 ELECTRICAL PONER SUPPLY					0.0632	0.11	0.0128	0.05	0.0242	0.0244	0.0	0.02	(0.0	9.0	0.024	0.0175	0.0433
44 LIGITING SYSTEM					0.0134	0.03	0.0107	10.0	0.0081	0.006	0.02	0.01	û.01	9.02	0.0110	6110.0	AC 10.0
45 HILDRAUE IC AND PURCHALIC					0.0364	0.04	0.0280	0.04	0.0208	0,0227	0.05	e.03	0.0	0.05	0.0254	0.0237	0.0366
<u>.                                    </u>		371	3 11	3 1	0.0217	0.02	0.0130	0.02	9.0136	0.0144	0.02	9.02	0.02	0.03	0.0245	0.0227	0.0169
OXYGEN		7112		VIII	0.0143	9.02	0.0113	0.02	0.0021	0.0089	0.01	0.01	0.01	0.02	0.0127	0.0142	0.0126
HISC. UTH ITIES		4(3			0.0106	0.03	0.0090	: 0.02	0.0070	0.0078	10.0	10.0	4.01	0.02	0.0127	0.0139	0.0134
IHSTPURMES		130	30	130	0.1481	0.30	0.1061	10.0 .	0.0112	1010.0	0.05	0.05	0.06	0.0	0.623		0.0454
AUTOFILOT		10	5	مر	0.0935	0.12	0.0644	0.05	10.011	0.0150	9.0	e.05	0.06	0.0	0.0605		0.06.39
HALFUICTION AUN. & ACCORDING EQUIP.	is squip.	N Y	8 Y	4 V	•	•	•	•	0.000	0.000	•	•	•	•	0.0006		0.0001
IN COMMICATIONS		LYO	170	LYC	8.0229	9.05	0.0179	0.03	0.0134	0.0146	10.0	0.02	9.02	0.03	0.0299	0.0239	0.0242
VIE COMMECATIONS					0.0191	0.04	0.0127	10.0	0.0083	0.0085	10.0	0.01	10.0	0.02	0.0147	0.010.0	0.0140
IAIF COSTINICATIONS					.1014	6.0	0.0694	0.05	0.0399	0.0405	9.9	9.0	0.9	0.0	0.0550	0.0542	0.0569
Interiore					0.0345	0.05	0.0257	to.0	0.0168	0.0173	0.02	9.0	9.6	0.0	0.0245	0.0193	0.0260
116					0.0511	0.09	0.0151	<b>50.0</b>	0.0109	0.0190	0.03	0.01	10.4	0.0	0.0150	0.0165	0.0333
ENCRUCINCY COMMULCATIONS					0.0459	0.07	0.0361	0.03	0.0276	0.0303	0.01	0.02	8	0.0	0.0570	3.0565	0.0116
HISC. COMMULCATIONS					1600.0	to'o .	0.0066		<b>0.0016</b>	0.0035	•	0.02			000	000	0.0044
RADID RAVICATION					0.2754	. 0. 26	0.1902	0.11	0.0956	8	0.0	8.9	8.0	0.16	0.1206		0.1112
RADAR HAVIGATION					0.2672	0.47	0.1347	0.21	0.1563	0.1763	0.21	• 19		ŕ	1622.0		0/(2.0
THENCENCY CONFICHENT					1610.0		0.0133	0.02	0.00.0	9.004	10.0	10.0	10.0		0.0124		1.0104
PERSONNEL EQUIPMENT					9.000		0.000		0.000	0000	•	•		.		•	9000 P
ELM OSIVE DEVICES					0.000	•	0.000	•	9.000	0.000	•	•	•	•	0.000	,  . 	0.000
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10141 5		$\frac{1}{1}$			2.6726		1741		1111		j		-				
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TABLE D-36 C-130E INTERNENTATE NENCH CHECK TASHS PER 1000 FLIGHT NOURS

i s	SYSTEM MATE	1962•	1963*	1961	1965•	9961	1967•	1968	1969*	•U/61	1/61	2/61	57 <u>61</u>	<b>#</b> 761	3/61	19/1	
il	1)Notes		9.6		5.9	9.3	2.8	11.0	10.6	<u><u></u></u>	1.1	12.2	13.61	1.11	11.6	11.5	Ż
:1:	US FUSTING	N.Y.	1.1	25.1	2.0	8.2	19.3	2.8	24.1	24.5		21.6	9.6	?.	21:0	218	ž
	LANDING CLAR	ž	24.7	2.3	34.6	9.2	1.16	1.8	1715	32.6		Х.0	2.6	25.0	2.1	777	ਸ਼
			-	4.6	4.8	16.1	5.1		5.5	5.2	1.9	9.9	-	•	3	13	•
12		N.2	11.6	1.0	\$5.6	101.2	56.6	111.9	2.93	\$0.4	27.2	21.0	1.8	5.2	3.4	5.15	S
12		2.9		17	1.1	1.0	3.6	1.6	3.9	4.0	1.2	2.4	5.6	5.3	3	3	<b>^</b>
:12	-	40.6	2.0	(.16	26.0	0.19	25.0	1.2	ю.;	0.lt	40.3	8.7	Ч.1	27.0	2.3	2.8	8
: =	ALE CONTINUES PERSUELZATION	3	7.6	5.0		22.4	11.3	21.4	1.61	11.0	10.0	11.6	16.1	17.6	17.0	1.67	8
-		3	5.3	7.6	9.0	22.4	1.6	16.6		7.0	1.6	5.9	8,2	9.0			
	-		2.0	2.5	2.5		3.0	6.1	3.6	1.7	5.2	4.6	4.7	4.6	2		1
		5.0	3		::	11.9	7.6	15.9	8.6	9.1	1.4	9.4		11.6	3	1.6	•
	-	12.7	11.2	1.1		15.5		12.1	1.1	2.1		6.2	6.6	11.11	~~		•
=	_	2.6	2.8	0.0	3.2		5.5	6.9	1.0	4.4	5.3	3.4	••	3	3	3	1
	÷	1.1		1.6	2.1	-	2.6	6.9	3.1	3.4		2.	3.8	3.2		-	
15		0.0	2.6	19.7	22.4	-	36.3	20.0	22.5	21.4	2.	16.5	22.3	21.7		2.2	2;
: 3	-	16.0	16.3	16.5	16.6	34.0	17.2	2.e	17.6	0.0	2	15.6	H.1	1.1	17.4	20.1	2,
12	÷	0.0	0.0	0.0	0.0	•		·	•	•	:	•	·	۰ļ	~ 0	•	
:5	<u> </u>		3.1	3.4	1.1	18.3	1.1	12.4	-	5	3 <sup>-</sup> 	-	-	-	31	-	
29	We consultations	-	1	1.1	1.1	9.2	3.1	•••	1.1		2	2	2.2	;	-	1	
15		10.4	11.6	14.2	16.2	27.5	16.6	8:92	14.6	1.1	2	:	13.7	19.6	3	1.6	=;
13	_		5.9	5.9	6.5	8.4	6.6	13.0	6.6		9	3	3	•	3	3	ا <sup>تو</sup> ،
	<u> </u>	-	5.5	8.0	10.0	8.3	10.3	19.6			2.3	2.9		-	2	2	
3	FILLET COLUMICATIONS	-	1.6		4.2	5.0	5.0	2.0	5.1	3	<b>;</b> 	3	2	1.1		12.5	•
15		9.9			0.3			3	3		j	-	-	-			
12	<u> </u>	18.3	23.8	ж.7	46.9	1	40.6	•••	R.		*	×.	3. 2				×.
		•	63.0	1.1	45.2	116.0	н.2	92.9	8.8	3	<b>s</b> 1	5.9		1.1		101.2	3
	IMAGARY (DILINKA)			0.0			1.0	1.1	•		•	~		-		~	
1	PERSUMPLE COULTENE	0.0				•	•		•••	•	•	۰İ	•	•	•	•	Ì
16		••			••	•	•	·	•		: ;; ;	• !	۰İ	·		.  	
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T									İ		.: i	;				•	;
i	TOT M 5	121.6	1.410	342.4	1.116	1.13		63.4	3.78	24.9	410.)	10.3	1.8.	1.24	316.1	Ĩ	
		TANKER .	12														

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TABLE D-37) C-130E PERCENT DISTRIBUTION OF INTERVEDIATE NEWCH CHECK TASKS

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and a provided to be in a shirt of the

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Constrict And Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict And Light Constrict	AINTAVE	0.97	1.11	1.1	1.66	8.61	2.16	10.5	11.1	11.1	113	<u> (()</u>	8.5	87	1.1	1.61	9.5
Lowelink GAA         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2 <t< td=""><td>COCKPIT AIM FUSCIAGE</td><td>12.09</td><td>10.01</td><td>21.2</td><td>5.35</td><td>มาต</td><td>10.5</td><td>10.9</td><td>5.2</td><td>H.1</td><td></td><td>37</td><td>1972-</td><td>2.10</td><td>8.9</td><td>R.U.</td><td>17</td></t<>	COCKPIT AIM FUSCIAGE	12.09	10.01	21.2	5.35	มาต	10.5	10.9	5.2	H.1		37	1972-	2.10	8.9	R.U.	17
Affair (orinos)         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10         1/10	LANDING GEAR	£7.4	0.47	9.17	0.0	10.8	1.03	8	97.6	9.22	8	10.96	HI	9.4	3		-
Triando Front Read         15.1         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2 <td>fill curtical S</td> <td>1.70</td> <td>1.40</td> <td>1. 22</td> <td>1.27</td> <td>3</td> <td>1134</td> <td>1.62</td> <td>1.12</td> <td></td> <td>[[.]</td> <td>191</td> <td>1.22</td> <td>ILL</td> <td>3.1</td> <td>5</td> <td>-</td>	fill curtical S	1.70	1.40	1. 22	1.27	3	1134	1.62	1.12		[[.]	191	1.22	ILL	3.1	5	-
Maint law ream         L11         0.01         0.01         0.01         L10         0.10         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100         L100 <thl100< th="">         L100         L100</thl100<>	TURBO PROP POLKE PLAIT	15.43	13.20	14.02	U.73	10,62	11.14	17.56	13.09	12.62	3	10.1	10,22	12.59	11.45	3.9	2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AUTIL LARY FOLD PLAN	1.12	0.95	16.0	0.0)	1.01	0.95	1.18	1.01	8.1	8	9,9	0.95	1,15	×	1.8	3
Air countrionice, Personantation         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11	ITTRANE IC PROIFILLER	16.40	12.06	9.00	7.10	4.46	6.78	8.22	1.93	1.1	9.63		1.1	6,01	8	9.9	2
Internet interest         2.06         1.01         2.18         2.19         2.19         2.19         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16 <td>ASK CONULTIONING, PAESSURIZATION</td> <td>2.71</td> <td>2.41</td> <td>2.41</td> <td>2.49</td> <td>2.95</td> <td>16.5</td> <td>. 1. 16</td> <td>2.4</td> <td>3.51</td> <td>8</td> <td>17.8</td> <td>3.6</td> <td>1.6.6</td> <td>R 3</td> <td>2.1</td> <td></td>	ASK CONULTIONING, PAESSURIZATION	2.71	2.41	2.41	2.49	2.95	16.5	. 1. 16	2.4	3.51	8	17.8	3.6	1.6.6	R 3	2.1	
I latrike Tsita         0.1         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	LECTRICAL FORCE SUPLEY	2.06	1.87	2.16	2.26	2.3)	2.39	2.45	2.01	1.96	2.25	8.1	1.46	1.15	1 1.42	1.05	2.1
Internation         2.00         1.17         1.16         1.18         1.16         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20         1.20	I IUITING SYSTEM	•.7	0.63	0.45	0.66	0.58	0.79	0.96	0.9	0.93	1.27	1.46	1.07	8	1 0.54	ê. BS	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ITTRAUT IC AND PAGMATIC	2.02	1.71	1.8	1.72	1.04	2.00	2.49	2.22		4.04	3,03	8.4	1.5	1	1.67	2
oracta         1.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01 <th0.01< th="">         0.01         0.01         <t< td=""><td>I W I</td><td>ct.2</td><td>3.55</td><td>2.19</td><td>9.1</td><td>1.61</td><td>1.16</td><td>1.90</td><td>1.03</td><td>1.83</td><td>1.67</td><td>1.68</td><td>1.50</td><td></td><td>2.41</td><td>1.1</td><td></td></t<></th0.01<>	I W I	ct.2	3.55	2.19	9.1	1.61	1.16	1.90	1.03	1.83	1.67	1.68	1.50		2.41	1.1	
HIST, UTLITIES         0.51         0.51         0.53         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54         0.54 <th0.54< th="">         0.54         0.54</th0.54<>	DIYCEH	1.01	0.M	<b>8.8</b> 5	0.05	0.54	0.97	8	0.26	1.10	1.2)	1.10	0.91	1.2	8	1.07	0
Intrimutity         0.00         0.01         0.01         0.01         0.02         0.01         0.02         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	HISC, UTILITIES	0.53	0.51	0.51	0.56	0.36	0.68	0.93	0.0	0.05		0.84	0.16	1.13	11.11	0.95	•
Milleritati         Milleritation         6.44         5.11         4.40         7.10         4.23         7.82         4.16         6.11         6.10         1.11         6.10         1.11         6.10         1.11         6.10         1.11         6.10         1.11         6.10         1.11         6.10         1.11         6.10         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11<	1115 Hours 117 S	9.0	0.83	6.9	0.72	8.42	9.28	3.26	5.01	<b>6.</b> 36	1	6.32	6.07	6.21	6.II	4	-
Write Criteria Aux, a Recombine Coule.         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Autoritut	6.46	6.17	9.5	4.40	1.63	4.52	3.95	4.65	9.9	12.21	8.9	÷.5	2.90	3	1.15	-
If Construction (nois)         1,13         0,34         0,45         1,16         1,16         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,13         1,1	IN FIT CITCH AIM. & RECORDING COULP.	8.0	8	8	8.9	•	0.0	•	8.0	•	•	•	•	•	8	0.0	9
WILCOMMERTICION         1.23         0.99         0.48         0.48         0.48         0.48         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47	UF CORMUTCALLOUS	CI.1		×	0.94	8	1.16	1.95	1.29	1.33	1.17	1.26	1.09	1.62	2	1.75	2
unif cretenic(c)1045         4.20         4.24         2.44         4.45         2.44         4.45         2.44         1.11         2.14         1.11         2.14         1.15         2.14         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15         1.15<	MIC COTOMICALIONS	1.25		9.B	6.82	9.6	0.0	0.77	0.6	0.74	9.0		0.57	0.97	0.63	0.61	•
Internate         2.43         2.04         1.73         2.17         1.71         2.04         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         1.61         0.63         1.61         0.63         1.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61         0.61	uif cissialications	1.20	3.60	1.03	£.7	2.46	4.36	1.14	1.0	3.61	3.25		3.12	8	35.2	1.01	2
Iff         1.13         2.13         2.14         2.13         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         1.150         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160         1.160 <t< td=""><td>ttil ( k Micht)</td><td>2.61</td><td>2.06</td><td></td><td>1.7</td><td>2.12</td><td>1.2</td><td>2.0</td><td>1.60</td><td>1.63</td><td>8.1</td><td>_</td><td>1.52</td><td>-</td><td>0.41</td><td>1.26</td><td>1</td></t<>	ttil ( k Micht)	2.61	2.06		1.7	2.12	1.2	2.0	1.60	1.63	8.1	_	1.52	-	0.41	1.26	1
Interester converticities     1.23     1.04     1.04     1.01     0.62     1.11     0.64     1.65     1.64     1.65     1.66       11155.     Converticities     0.11     0.61     0.01     0.02     0.01     0.01     0.01       11155.     Converticities     0.11     0.11     0.11     0.11     0.01     0.01     0.01       11155.     Converticities     0.11     0.11     0.11     0.10     0.01     0.01       11156.     0.11     0.11     0.11     0.11     0.10     0.01     0.01       11156.     0.11     0.11     0.11     0.11     0.10     0.10     0.10       11156.     0.11     0.11     0.11     0.11     0.11     0.11     0.11       11156.     0.12     0.12     11.54     0.11     0.11     0.10     0.10       11156.     0.12     0.12     11.54     0.11     0.11     0.11     0.11       11156.     0.11     0.11     0.11     0.11     0.11     0.11     0.11       11156.     0.12     0.12     0.12     0.12     0.12     0.10     0.10       11156.     0.12     0.12     0.12     0.12     0.12 <td>188</td> <td>1.02</td> <td>1.75</td> <td>2.27</td> <td>2.65</td> <td>3.04</td> <td>2.7</td> <td>1.1</td> <td>2.1</td> <td>2.08</td> <td>2.94</td> <td></td> <td>0.68</td> <td>1.21</td> <td>1.04</td> <td>1.03</td> <td>2.07</td>	188	1.02	1.75	2.27	2.65	3.04	2.7	1.1	2.1	2.08	2.94		0.68	1.21	1.04	1.03	2.07
III.S.C. CONNECTIONS     0.23     0.210     0.00     0.011     0.11     0.200     0.001     0.010     0.010       MADID MATICATION     7.70     7.70     10.41     17.41     17.11     17.20     17.21     17.11     17.20     17.21     17.21     17.21     17.21     17.20     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21     17.21 <t< td=""><td>LINE REGISCY CONTAULICATIONS</td><td>1.25</td><td>1.9</td><td>1.06</td><td>1.1</td><td>0.52</td><td>1.31</td><td>0.41</td><td>1.6</td><td>1.65</td><td>-</td><td></td><td>2.11</td><td></td><td>2.47</td><td>3.20</td><td>3</td></t<>	LINE REGISCY CONTAULICATIONS	1.25	1.9	1.06	1.1	0.52	1.31	0.41	1.6	1.65	-		2.11		2.47	3.20	3
MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO         MADIO <th< td=""><td>ILESC. COLEMPICATIONS</td><td>0.24</td><td>2</td><td>e.0</td><td>8</td><td>0.1</td><td></td><td>8.9</td><td>9.0</td><td>9.0</td><td>0.10</td><td>_</td><td>0.02</td><td></td><td>0.0)</td><td><b>9</b>.02</td><td>9.9</td></th<>	ILESC. COLEMPICATIONS	0.24	2	e.0	8	0.1		8.9	9.0	9.0	0.10	_	0.02		0.0)	<b>9</b> .02	9.9
MAXIM MATCATION         0.00         14.42         14.53         11.50         14.51         14.53         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23         19.23	TADIO HAVICATION	7.39	7.55	10.41	12.42	6.71	12.70	0.7	10.05	9.55	9.9	<b>8</b> .54	6.28		6.07	~	3
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TABLE D-39 C-134E INTERMEDIATE BENCH CHECK ONLY TASKS PER 1000 FLIGHT HOUNS

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WI         Costentiation         12         12         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13 <th13< th=""> <th13< th="">         13</th13<></th13<>	i <u>i</u> 3	_	13		9.1	1.1	1.2	2.0	5.1	2.2	2.4	2.2	-	6.1	-	-	1.1	2.2
UNIC STERIMICATIONS         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold         Cold </td <td>i. S</td> <td></td> <td>1:2</td> <td>Ē</td> <td>~-</td> <td>1.2</td> <td>2.4</td> <td>1.2</td> <td>1.7</td> <td>1.2</td> <td>1.2</td> <td>1.0</td> <td>0.9</td> <td>0.8</td> <td>1.6</td> <td>-</td> <td>0.0</td> <td>~ 1</td>	i. S		1:2	Ē	~-	1.2	2.4	1.2	1.7	1.2	1.2	1.0	0.9	0.8	1.6	-	0.0	~ 1
Iff         1.1         1.2         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3         1.3 <th1.4< th=""> <th1.4< th=""> <th1.4< th=""></th1.4<></th1.4<></th1.4<>	1		13		6.6 1		17	2.0	6.7	6.2	6.1	-	3.8	•••	1.1	3	6.2	6.2
If     1.0     1.0     1.0     1.0     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1 <th1.1< th=""> <th1.1< th=""> <th1.1< th="">     1.1</th1.1<></th1.1<></th1.1<>	1		1	F	1.1	1	1.1	1	5.5	1.1	3	-	1.1	1.1	1.2	-	0.1	1.1
Interactive         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0 <th1.0< th="">         1.0         <th1.0< th=""> <th1.< td=""><td>ii S</td><td></td><td>1</td><td>5.0</td><td></td><td>1.1</td><td></td><td>9.0</td><td><b>~</b>.7</td><td>1.1</td><td>1.0</td><td>4.5</td><td>0.1</td><td>1.1</td><td>2.3</td><td>-</td><td>2.3</td><td>0.t</td></th1.<></th1.0<></th1.0<>	ii S		1	5.0		1.1		9.0	<b>~</b> .7	1.1	1.0	4.5	0.1	1.1	2.3	-	2.3	0.t
MISC. CONTRIMINATION     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec     Dec <thdec< th="">     Dec     <thdec< th=""> <thdec< th=""></thdec<></thdec<></thdec<>	11		-	1	2.2	5.4	9:1	2.0	1.6	1.1	3.6	1.6	1.1	4:5	6.5	•	~	1.1
Ruio Invisition         6.6         0.3         11.2         11.5         11.5         11.5         11.5         11.5         11.6         11.5         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6         11.6	113		0.0		0.0	0.0	0.2	0.0	0.2	0.0	0.0	••	0.0	•	0.0	0.0	0.0	
Made Invitation         0.0         27.5         21.4         19.3         27.3         19.4         20.0         39.1         60.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6         70.6	15		9.6		13.2	16.9	12.1	1.1	15.3	14.0	2.1	11.5	-	3	- 15.6	3	E.	- 11.9
Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0     0.0       Interaction     0.0     0.0     0.0     0.0     0.0     0.0	12	RAMAR LAVIGATION	0.0	212	21.0	19.2	1.1	14.5	1.16	25.7	28.3	3.0	ġ	20.02	1.4		1:1	2.1
Prisonant tournant     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       10410110     0.1011341     0.0     0.0     0.0     0.0     0.0     0.0     0.0       10410110     0.1011341     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       10110     31.2     31.2     41.3     31.5     41.3     41.3     41.3     41.4			0.2		9.9	9.6	;	9.6	•	0.5		•		•	0	=	2.6	
invisit aviets     i.e.     0.0     0.0     -     -     0.0     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     <			9.9		· 0.0	9	-•	•	•	•	0.0	•	•	•	•	•	•	•
	12		0.0	0.0	0.0	0.0	•	•	•	•	0.0	•	•	·	•	•	•	•
101MS     31.2     65.6     75.1     70.5     102.9     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2     91.2	1									İ		1		:	1		;	
101MS 26.5 76.1 86.6 103.1 76.5 122.9 86.3 96.2 96.2 96.2 96.2 96.2 96.2 96.5 96.5 16.7 16.7	<u> </u>									İ	1		:					;
<u>8.5</u> 8.1 8.5 8.1 8.5 10.1 75.5 10.2 8.1 8.2 8.2 8.2 8.2 8.5 8.5 8.5 8.5 8.5 8.5 10.2 105.7	<u> </u>	_							Ì	Ì	ļ	1				1	!	1
		IUMS	2.8	65.5		8.6	10.1	2.5	10:01	<b>R</b> .3		Ĩ		3	9.W	a X	18.7	<b>.</b>

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Altrend         0.41         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11 <th0.11< th="">         0.11         0.11</th0.11<>	SYS SYSTEM MARE	61	1962 •	1963 •	1964	1965+	1966	1967•	1968	1969-	•0/61	1721	1972	£/6T	¥/61	5761	9/61	IA YEAR
			2.4	11.4	1.21	1.25	1.1	9. X	<b>N.K</b>	0.47	2.4	11.1	11.0	.0.15	0.13	٦	19.9	9.9
totality control         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total         total	<u> </u>		19.9	1.99	1.11	<b>6.9</b>	111	1.02	1.40	ST.		12.9	e k	1.8	2.0	6.6	39	7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	÷		5	4.54	4.93	5.22	A.W	5.35	<b>F.N</b>	1.1	4.24	11.1		9.6	2.19	2.5	201	5.9
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	<u>.</u>		1.5	0,92	9.8	10.0	1.59	0.0	WI	6.15	2.4	11.1	9. K	1.8	0.7	2	9.6	
	<u>.</u>		3	3.8	3.20	3.35	3149	3.67	H.A	2.97	2.2	2.76	1.1	3.07	2.03	2.01	1.7	21.02
			3	•	0.27	9.25	0.27	0.25	9.49	0.24	56.9	0.42	N.9	0.23	0.29	0.21	8 .0	0.21
	<u> </u>		10.	1.7	6.23	4.47	12.20	4.46	6.20	4.94	4.01	919	<b>8.06</b>	6.9	1.75	311	1.22	7
Interfactor         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title         Title	<u>.</u>		13	.92	0.0	0.93	1.1	1.27	2,55	1.30	1.26	1.27	1.1	1.90	1.56		1.59	<u></u>
			1.8	2.14	2.46	2.61	2.94	2.80	4.65	2.25	2.07	2.12	2.05	3.50	2.24		3.0	8
			13.	0.51	9.9	0.62	96.9	0.76	1.19	0.0	0.92	0.74	1.17	1.02	0.97	0.71	0.75	0.05
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	÷		I R R	13	1.66	67-1	2.2	1.1	3. X	1.90	1.96	2.65	2.23	1.75	2.92	1.44	1.03	1.9
Difficient         0.23         0.12         0.12         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13	_		1.24	9.9	9	0.25		0.25	0.0	9. X	0, 35	0.53	0.17	0.29	0.39	0.21	0.0	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			0.26	0.15	-	0.12	0.0	0.25	0.42	9.0	0.23	0.21	0.17	0.23	0.39	0.21	0.28	ě.
FISTEMENT         0.00         0.44         1.11         5.10         5.11         5.10         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11         5.11	-		12		0.27	0.25	0.42	0.75	0.9	0.16	0.15	0.12	6.34	0.6	90	0.53	0.47	9.X
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	_		8.0	.4	5.3	5.22	16.3	6.73	2.46	1.12	11.1	1.91	2.05	2.34	3.12	2.11	2.41	3.5
WLUNFTION ANAL & ACCOMDING (QUIP).0.00 $                                                                                                                                                                    -$ </th <td>-</td> <td></td> <td></td> <td>7.16</td> <td>6.3</td> <td>6.09</td> <td>6.67</td> <td>(0.3</td> <td>4.41</td> <td>6.17</td> <td>6.9</td> <td>7.42</td> <td>1.63</td> <td>7.01</td> <td>3.45</td> <td>6.2</td> <td>3.94</td> <td>6.1)</td>	-			7.16	6.3	6.09	6.67	(0.3	4.41	6.17	6.9	7.42	1.63	7.01	3.45	6.2	3.94	6.1)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		   .	8.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
If CarAmelicia (OF)     1.0     1.0     1.0     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.0     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1 <th1.1< th="">     1.1     <th1.1< th=""> <th1.1< th=""></th1.1<></th1.1<></th1.1<>	<u> </u>		3. 2	2.14	2.13	2.11	16.2	2.55	3.67	19.5	2.76	1.33	3.8	1.1	1.22	2.5	2.6	3
UNE CONSTRUICTIONS     11.21     7.46     7.49     7.91     6.61     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16     7.16 <t< th=""><td></td><td></td><td>10.0</td><td>1.03</td><td>3.1</td><td>1.49</td><td>1.66</td><td>1.63</td><td>1.19</td><td>1.42</td><td>1.34</td><td>1.06</td><td>1.37</td><td>1.17</td><td>1.66</td><td>1.69</td><td></td><td>1.45</td></t<>			10.0	1.03	3.1	1.49	1.66	1.63	1.19	1.42	1.34	1.06	1.37	1.17	1.66	1.69		1.45
Internation         1.2         1.3         1.13         1.13         1.14         1.14         1.14         1.14         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11			1.22	7.46	1.9	0.57	3.28	0.92	6.63	7.35	7.02	6.73	6.51	7.15	7.60	6.77		7.50
Iff     1.11     1.16     1.26     1.29     4.60     1.26     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21     1.21			3. 22	1.94	1.73	1.61	16.9	1.66	2,45	1.64	1.60	1.40	8	1.61	1.17	8		1.57
HERGING         4.19         2.36         2.31         1.11         3.15         1.11         3.16         1.11         4.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11			1.08	3.05	3.99	4.60	3.24	4.4	6.3	1.6	3.45	4.77	1.71	1.61	2.24	8		
HIZC. CONTRACTIONS         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <td>,</td> <td></td> <td>4.59</td> <td>2.90</td> <td>1.93</td> <td>2.94</td> <td>1.12</td> <td>1.6</td> <td>1.12</td> <td>3.5</td> <td>4.03</td> <td>1.91</td> <td>1.11</td> <td>6.13</td> <td>K.9</td> <td>2.5</td> <td></td> <td></td>	,		4.59	2.90	1.93	2.94	1.12	1.6	1.12	3.5	4.03	1.91	1.11	6.13	K.9	2.5		
MUID INVERTION         II.AI         11.1         17.10         10.11         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20         11.20			8.9	9.9	8.	3 8		8	9.11	8	8	0.11	8		8.0	8		
Multial initialities         0.00         31.55         23.61         13.47         23.36         33.45         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         23.46         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47         33.47 <td>_</td> <td>-</td> <td></td> <td>13.13</td> <td>17.64</td> <td>20.39</td> <td>9.46</td> <td>22.23</td> <td>.10.71</td> <td>16.61</td> <td>16.27</td> <td>12.20</td> <td>11.73</td> <td>12.70</td> <td>11.20</td> <td>11.27</td> <td></td> <td></td>	_	-		13.13	17.64	20.39	9.46	22.23	.10.71	16.61	16.27	12.20	11.73	12.70	11.20	11.27		
Instant         0.11         0.44         0.51         0.15         0.16         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.16         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20			0.0	34.35	29.03	23.45	19.01	14.47	2.4	\$.8	15.27	8.2	33.22	2.2	X.16	42.28		2.2
			13.0	9.46	0.63	0.75	-	0.76	٠	0.53	0.46	•	8.0	•	8.9	1.16	29.2	3.0
			8	9.0	8	9.8	•	•	•	•	9.6	•	•	•	•	•	•	
101/13     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00     100,00 <td></td> <td></td> <td>8</td> <td>e.8</td> <td>0.0 8</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>9.9 8</td> <td></td> <td>٦</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>			8	e.8	0.0 8	•	•	•	•	•	9.9 8		٦	•	•	•	•	•
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100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00	_				Ì											1		•
		2		100.00	100.001	100.00	100.00	8.8	100.001		100.00		100.00	8.8	100.00	100.001	100.00	100.00

เนื้อนในสี่ยนทรรมสายคนระโยการนั้นการคนายน แนก มาคนายสมายสมาย คนายศณีสายสายให้สองไฟการโลการไม่ต่างเพรา การการการ วิธีนี้นี้ได้สี่ยนทรรมสายสายร้านการแบบการแบบการสมายสมายสมายสมายสมายสายสายสายสายสายสายการในตามคนายสมารายการการสา

TABLE D-40 C-130E FENCENT DISTRIBUTION OF INTERFEDIATE RENCH CRECK ONLY TASKS

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TABLE D-41 C-130E INTERNEDIATE RENCH CHECK ONLY TASKS FER SOATIE

575	SYSTEM NAVE	1962*	1963•	1961	1965	1966	_/qr.1	946.1	6	-2016		VIET	SE				AWENE
AINTRUME					0.000	620	1000) e	2003	0000	9,000	1000	8	(00e)	1000	1000	6.0013	- 8
12 COCKPEL A	COCKPIL AND FUSILACE				0.0015	919-	1.00.9	N 98	610010	100'0-	1001	100	88	1001	0.0023	9.0015	1
•	14				0.012	VOX OT	1219.9	5010.	2007	10,00,0	11101	38.	301	201	9.0061	N. 10	1
_	riters S				0.00.0	0000	0,0020	15001	0.0015	3.0016	1001	181	1181	8189	0.0020	199.0	
÷.	TURDO PRUF NAKE MAIT				0.0117	,0206		1110.	0.00()	100.0	1500:	1200.	10054	1900.	0.0054	.00	8.0
24 AUTILIARY	ALLEN FOR A MIT				0.0009	0015	0,0006	[100.	0.0004	0,000,0	6000.	8000	200	10001	0.000	8	
	INTERAL IC PRINTILLE				0.0156	1210.	0,0101	0/10.	0.0079		2010.	1(10,	10106	67891	100.0	8.8	
	ALE COUNTIONING. PHASSIMIZATION				0.0035	2220.	0.0029	0/00.	0.0021		9200	2200.	1001	1100-	100.0	1.0	
_	DICTAL PARK SUMAY				1600.0	(/10.		1210.	0.0016		1000.	(00)	10062	.0067	0.0017	0.001	
_					0.0022	8100	0.0017	!	0.001	•	100.	2200.	<b>1</b> 00.	6200.	0.0020	0.0021	
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_		۲ ا	j.,	r	0.001	000	0.0006	1	0,000	0.004	000	1000	2000	2100.	0.000	0.000	0.0005
_		i Brx	1 911	 271	0000	0025	0.0006	1200	0.000	0000	9000	000	0100	18	10.0	100.0	0.0
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_		i 111 1	تتو ا	     	0.00	1110			0.0028		1910	2210	0124	111	0.0141	0.0108	0.0155
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55 INVINU	THUT IT'N THAT . & KI CONDING FOULP.	i 121	1 1214 1	i sa		1	•							•	O MAG	. 010K	A 00.0
cit in commentation	ileandis .	Å I	- 2 -				0.00.0							3			
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All CONTINUES: WESSARIATION     0.1     1.0     1.1     0.1     1.1     1.1     1.1       All CONTINUES: WESSARIATION     0.1     1.1     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2     1.2		ANTIONING, PAYSUNITATION CALTAIN SUNY IS AND PHUMIS IS AND PHUMIS UNITIES OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF INS OF IN	<b>8 8 1 1 1 1 1 1 1 1 1 1</b>	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1			10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	4:4 4:4 6:5 6:5 6:5 6:5 6:5 6:5 6:5 6:5 6:5 6:5		22.3	2	1.1	211	31.6	2.2	2	2.2	2
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Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation     Initiation <th></th> <th>CTION (IN1 . A RECORDING LIVER.</th> <th></th> <th></th> <th></th> <th>0.4</th> <th>1</th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>1.1</th> <th>-</th> <th>?</th> <th>3.6</th> <th>9.2</th> <th></th>		CTION (IN1 . A RECORDING LIVER.				0.4	1					-	1.1	-	?	3.6	9.2	
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Initerimation         5.6         6.3         1.4         6.5         1.0         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6 <th1.6< th=""> <t< th=""><th>-</th><th>risinte AT 10k5</th><th>12</th><th>6.9</th><th>5.5</th><th></th><th>12.6</th><th></th><th>10.3</th><th>2.4</th><th>2</th><th>~</th><th>4.5</th><th>2</th><th>-</th><th>- '. -   -  </th><th></th><th></th></t<></th1.6<>	-	risinte AT 10k5	12	6.9	5.5		12.6		10.3	2.4	2	~	4.5	2	-	- '. -   -		
III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIIII         IIIII         IIIII         IIIII         IIIII         IIIII         IIIII         IIIIII         IIIIII         IIIIII         IIIIIII         IIIIIII         IIIIIII         IIIIIII         IIIIIIII         IIIIIII         IIIIIIII         IIIIIIII         IIIIIIIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		1utif	5.6	6.5		3	10.4	\$.5	•	3	3	9.7		2	2		3	, , , , , , , , , , , , , , , , , , ,
Investigation         1.4         1.5         0.1         2.1         0.1         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.6         2.7         0.2         2.6         2.7         0.2         2.6         2.7         0.2         2.6         2.7         0.2         2.6         2.7         0.2         2.6         2.7         0.2         2.6         2.7         0.2         2.7         0.2         2.7         0.2         2.7         0.2         2.7         0.2         2.7         0.2         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7 <th2.7< th=""> <t< th=""><th>_</th><th></th><th>1.9</th><th>2.4</th><th>1</th><th>3</th><th>14.2</th><th>3</th><th>0.0 2</th><th></th><th></th><th>3</th><th>2.1</th><th></th><th></th><th></th><th></th><th></th></t<></th2.7<>	_		1.9	2.4	1	3	14.2	3	0.0 2			3	2.1					
ніс. силинскіних     24     0.1     20.1     0.2     0.2     0.2     0.2     0.1     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2	-	ILL CONTINUE ATTONS	7.1	9.1	0.2	-	-	2.2	3		8. N	2				1		
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TABLE D-42 C-130E INTEMEDIATE RENCH CHECK AND MEPAIR TASKS PER 1000 FLIGHT NOURS

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TABLE D-43 C-130E PERCENT DISTRIBUTION OF INTERVEDIATE BENCH CHECK AND REPAIR TASKS

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Antfault         1.16         2.01         2.01         3.11         10.04           Autoring C1Am         2.01         12.12         12.12         10.29         16.49           Autoring C1Am         2.01         12.12         12.12         10.29         16.49           Autoring C1Am         2.13         11.13         12.12         10.29         16.49           Autoring C1Am         2.13         11.23         12.13         10.29         10.14           Autoring C1Am         2.13         11.23         12.13         10.49         12.14           Autoring C1Am         0.13         12.13         12.13         12.14         12.14           Autoring C1Am         0.13         12.13         12.14         12.14         12.14           Autoring C1Am         0.13         0.13         12.14         12.14         12.14           Autoring C1Am         0.13         0.13         12.14         12.14         12.14           Autoring C1Am         0.13         0.13         12.14         12.14         12.14           Autoring C1Am         0.13         0.13         12.14         12.14         12.14           Autoring C1Am         0.14         0.13		2.48 10.48 1.11 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12			7.8 2.9 2.9 2.9 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.8 9.90 1.0 1.0 0.9 0.9 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0	8.4 1.9 1.9 1.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			
K         1.10         1.12         1.13         1.14         1.12         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.16         1.						9.8 9.4 9.4 9.4 9.4 1.9 1.3 1.3 1.3 1.3 1.3 1.3 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	4,8 4,1 1,1 1,1 1,9 1,9 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0			
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TABLE D-44 C-130E INTEMEDIATE NEWCH CHECK AND NEPAIN TASKS PER SONTIE

TABLE D-45 C-130E INTERNEDIATE REPAIR ONLY TASKS FER 1000 FLIGHT NOURS

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12	TUCCO PART NICAN MANT	-		1.11	12.5	2.1	17.1	1.6	11.0	11.7	2.2	0,0	11.7	10.2	10.6	8.3	
12	AUCH LANT FOR M M NI		0.1	0.1		0.0	0.2	•	0.2	0.2	9.4	0.2	9.2	9.2		0.0	0.2
: 2	PI HEUMAN IC PAULITIE	1			1.1	1.4	2.0		2.4	2.5		1.1	2		1.0	•.•	2.3
13	AIR COMPLICATION. PACSSON (ATTON	~	0.2	9.2	•	2.5	0.3	13	•	•	9.4	•		0.2	<b>9.2</b>	0.2	•
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13	INTIMATION ANT. & PECNOTING L'UIP.	0.0	0.0	9.0	•••	•	0.0	•	0.0	0.0	٠	•	•	•	•	•	•.
13	if (0":241/rA11uis	•	1.0	-	1.2	2.9	-	<b>?</b> .2		1.7	1.5	-	1.1	2.3	2.1	3.0	-
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5	111					2.3	?	2.8	1.4	1.4	°.	9.9	9.6	•	1.1	1.1	1
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III.TIRIA PARA SAMENT         2.13         1.9         2.00         2.00         2.01         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11         2.11 <th2.11< th="">         2.11         2.11<!--</td--><th>*[</th><td>_</td><td>3.</td><td>9.6</td><td>0.3</td><td>2.0</td><td>3.76</td><td>0.49</td><td>1.63</td><td>0.48</td><td>0.47</td><td>0.79</td><td>1.17</td><td>11.0</td><td>0.27</td><td>9.26</td><td>8</td><td></td></th2.11<>	*[	_	3.	9.6	0.3	2.0	3.76	0.49	1.63	0.48	0.47	0.79	1.17	11.0	0.27	9.26	8	
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Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill         Mill <th< td=""><th>1</th><td></td><td>11</td><td>0.9</td><td>0.0</td><td>8.0</td><td>17</td><td>6.0</td><td>10.3</td><td>1.11</td><td>1.24</td><td>1.1</td><td>2.04</td><td>9.82</td><td>1.36</td><td>9. X</td><td>£</td><td>1.13</td></th<>	1		11	0.9	0.0	8.0	17	6.0	10.3	1.11	1.24	1.1	2.04	9.82	1.36	9. X	£	1.13
MIAL         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR         OLOR <th< td=""><th>÷I:</th><td></td><td>0</td><td>8.0</td><td>8.0</td><td>8</td><td>8</td><td>8</td><td>e.K</td><td>8.9</td><td>8</td><td>3</td><td>0.71</td><td>6.2)</td><td>9.00</td><td>8</td><td>0.0</td><td>9.0</td></th<>	÷I:		0	8.0	8.0	8	8	8	e.K	8.9	8	3	0.71	6.2)	9.00	8	0.0	9.0
MICLUIT         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction         Diraction <thdiraction< th=""> <thdiraction< th=""> <thdir< td=""><th>-</th><td>-</td><td></td><td>8</td><td>8</td><td>8</td><td>0.0</td><td>8.0</td><td>0.44</td><td>8</td><td>8</td><td>•</td><td>8.0</td><td>8.0</td><td>9.0</td><td></td><td>e. 00</td><td>9.0</td></thdir<></thdiraction<></thdiraction<>	-	-		8	8	8	0.0	8.0	0.44	8	8	•	8.0	8.0	9.0		e. 00	9.0
MIST. UNI ITIS         0.00         0.70         1.54         2.40         1.19         1.59         0.40         0.56         0.41         4.65           MIST. UNI ITIS         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	<b>2</b> 1	<u> </u>		18	8	8	8	0.16	0.51		0 16	0.0	8		I.	12.0	2.0	0.16
Instructions         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	31						9	10				9	30	13	1.40		N.O	1.61
Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut         Muscritut <t< td=""><th>5</th><td></td><td>8.0</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>i</td><td>5</td><td></td></t<>	5		8.0	3												i	5	
Matrixet         Matrixet         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	3	<u> </u>	3		3	8			8									
Iff Corrention (vis)     2.53     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     1.34     <	12		0.00	8.	8.	9.9		8	•	8	8	-		•	•	•	•	•
Will Construction         2.23         1.36         1.36         1.36         1.31         1.12         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13 <th></th> <td>÷</td> <td>2.50</td> <td></td> <td><b>%</b>.1</td> <td>1.92</td> <td>•</td> <td>2.27</td> <td>8</td> <td>2.5</td> <td>2.61</td> <td>•</td> <td>•</td> <td>-</td> <td>1.1</td> <td></td> <td></td> <td>2</td>		÷	2.50		<b>%</b> .1	1.92	•	2.27	8	2.5	2.61	•	•	-	1.1			2
UD: DECENTION:     10.40     -0.11     -0.12     -0.11     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16     -0.16<	:: 0		2.2	5.	N	1.20	1.4	9.1	1.33	1.27	1.24	1.19	×.1	×		8	0.6	2
Interview         3.11         7.16         1.26         1.26         1.21         1.26         1.23         1.12         1.12         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13	115		19.01	6.9	2.9	9.70	1.96	9.55	8.44	8.25	0.0	3	16.6	5.75	<b>0.15</b>	7.63	6.9	1.1
Iff         2.71         2.73         2.73         2.73         2.73         2.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.73         2.73         1.74         1.73         2.73         1.73         2.73         1.74         1.74         1.75         2.73         1.74         1.74         1.74			31.6	-	.8	1.14	3	1.2	2.9	1.1	1.1	1.5	2.92	1.23	1.90	8	3	1.11
Insultative         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistication         I. statistion         I.	11		2.29		2.42	2.72	3.46	2.76	4.15	2.22	2.1)	1.5	1.75	9.82	1.36	1.43	1.27	2.25
MISC. CORTANICATIONS     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     <			19.7		3			8.7		1.43	1.55	•	11.1	1.33	2.72	2.21	*	1.45
EVICOL EVALUATION         13.10         18.10         11.13         26.13         13.16         15.27         13.23         14.62         9.04         14.65           EVICOL EVALUATION         0.00         10.11         26.11         11.13         26.11         11.13         26.11         11.13         26.11         11.13         24.41         11.33         24.41         11.39         24.42           EULAM MAYIGATION         0.00         0.00         16.12         11.13         26.14         21.15         21.15         21.15         21.13         24.41         21.13         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42         24.42 <th< td=""><th>ļ</th><td>· · ·</td><td>.8</td><td>6.00</td><td>0.60</td><td>9.9</td><td>9.15</td><td>0.8</td><td>9.6</td><td><b>9</b>.0</td><td>9</td><td>8.0</td><td>9.0</td><td>8</td><td>8.9</td><td>8</td><td>•  </td><td>8</td></th<>	ļ	· · ·	.8	6.00	0.60	9.9	9.15	0.8	9.6	<b>9</b> .0	9	8.0	9.0	8	8.9	8	•	8
LUMUL WYICHING         0.00         73.61         76.01         16.12         17.16         71.65         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66         26.66	¥≈	<u> </u>	11.0		16.26	19.20	11.13	20.26	13.48	15.07	15.22	13.24	16.62	8.6	14.40	11.11 11.11	2.2	15.94
Insulative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00     0.00       Findative function     0.00     0.00     0.00     0.00     0.00 <td< td=""><th>12</th><td>_</td><td>8</td><td>N.C.</td><td>10.02</td><td>16.32</td><td>12.76</td><td>12.40</td><td>24.44</td><td>21.75</td><td>23.45</td><td>24.05</td><td>19.0</td><td>13.97</td><td></td><td>8.9</td><td>21.35</td><td>20.61</td></td<>	12	_	8	N.C.	10.02	16.32	12.76	12.40	24.44	21.75	23.45	24.05	19.0	13.97		8.9	21.35	20.61
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TABLE D-46 C-130E PERCENT DISTRIBUTION OF INTEMEDIATE REPAIR ONLY TASKS

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TABLE D-47 C-130E INTEMEDIATE REPAIN ONLY TASKS FER SOFTIE

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# APPENDIX E

# RELIABILITY STATISTICS

	IN-FLIGHT (IF) - BETW	EEN FLIGHT	(BTF) -	INSPECTIO	IN (INS)
SYS.			EN DISCO	VERED PER	CENT
NO.	SYSTEM NAME	BF	IF	BTF	INS
11 AIRF	RAME	-	-	29	71
12 COCK	PIT AND FUSELAGE	-	-	25	75
13 LAND	ING GEAR	-	1	31	68
14 FLIG	HT CONTROLS	-	1	17	82
22 TURB	O PROP POWER PLANT	2	9	23	66
24 AUXI	LIARY POWER PLANT	1	1	30	68
32 HYDR	AULIC PROPELLER	1	7	18	74
	CONDITIONING PRESS.	1	8	37	54

TABLE E-I	PERCENT DIST	TRIBUTION OF OR	GANIZATIONAL	AND INTERMEDI	IATE
	COMPONENT F/	AILURES BY WHEN	DISCOVERED B	EFORE FLIGHT	(BF) -
	IN-FLIGHT (	IF) - BETWEEN F	LIGHT (BTF) -	- INSPECTION (	(INS)

12	COCKPIT AND FUSELAGE	-	-	25	75
13	LANDING GEAR	•	1	31	68
14	FLIGHT CONTROLS	-	1	17	82
22	TURBO PROP POWER PLANT	2	9	23	66
24	AUXILIARY POWER PLANT	1	1	30	68
32	HYDRAULIC PROPELLER	1	9 1 7	18	74
41	AIR CONDITIONING, PRESS.	2 1 1 1		37	54
42	ELECTRICAL POWER SUPPLY	-	2	39	59
44	LIGHTING SYSTEM	-	3	28	69
45	HYDRAULIC & PNEUMATIC	-	8 2 3 2	38	60
46	FUEL	-	12	51	37
47	OXYGEN	-	6	36	58
49	MISC. UTILITIES	-	6 1	23	76
51	INSTRUMENTS	1	50	18	31
52	AUTOPILOT	3	62	7	28
55	MALFUNCTION ANAL. & REC. EQUIP.	1 3 5 1	45	50	-
61	HF COMMUNICATIONS		57	7	35
62	VHF COMMUNICATIONS	4	77	3 7	16
63	UHF COMMUNICATIONS	4	73	7	16
64	INTERPHONE	4	53	10	33
65	IFF		30	2	68
66	EMERGENCY COMMUNICATIONS	- 5	15	19	61
69	MISC. COMMUNICATIONS	-	2	-	98
71	RADIO NAVIGATION	•	40	2	58
72	RADAR NAVIGATION	•	55	2 5 2	40
91	EMERGENCY EQUIPMENT	-	-	2	98
96	PERSONNEL EQUIPMENT	-	-	-	100
97	EXPLOSIVE DEVICES	-	-	100	-
	TOTALS	2	13	24	61

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1×	· SYSTEM NUME	1962*	1963+	1964•	1965+	1966	1967•	1968	-6961	-0261	1/51	1972	1973	4/61	1975	9/61	IL YLAR AVENUE
2		T							5			2.0.5	X6.5	2.915	515.4	5113	30.02
=	AINFAUE 1	10.1		211.2	1.91	1.1.1	110				1	18.5	21.1	236.5	1.01	204.1	131.00
2	COCIPIT AND PUSILAGE	111	200	112							1.2	8.0	57.7	156.0	116.4	2771	127.55
12	I ANDING GEAR / 1	12	73	111.4	19:2		arter			3		2.2	1.2	157.4	\$.76	12.2	1.14
E	ri Ichit Contanas	1111	114	ï	2101	171.2	1911						1.672	2.13	8.8	275.0	245.33
12	÷	195.0	203.6	212.0	220.6	202	1.11						31.6	5.6	45.7	0.01	21.57
Ĩ	AUXILIARY PEARD PLANI	6.9	4.1	3	•	1	1.1	118					199.2	2.28	8	1:9.0	11.92
18	<u> </u>	76.3	<u></u> "	2:2	1.1	5.11	92.0	11.1					9		1.1	9.63	67.18
12		100.8	65.5	6.1	9.9	97211	72.4	177						1	27.2	£.0.2	18.97
:12	÷	12.9	16.2	11.5	21.1	2.2	24.8	1.01	~	4				120 6			102.79
:13			102.6	101.9	104.7	1.7.1	10.7	8.78	2.9		0.18						11.26
11	_	110.2	76.6	77.2	71.4	<b>1</b> 11	1.6	8.01	2:2		2.2				í a		1
21 :		20.4	27.0	33.6	2.9 <del>4</del>	(8,1	63.5	1.52	5:3		1.11.						1
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	-			1	1.1		11.4	2635	24.4	27.5	29.5	20.3	23.5		•	1.67	
4							101.2	10.1		5.10	33.5	29.2	42.7	\$7.9	45.2	- 46.1	2
3		20.								15.3	29.02	27.1	28.9	41.6	X.2	30.5	N. K
3		2.72								1.0	0.0	•	•	•	0.2	0.4	0.05
3		.†	•	•	•					14.0	12.21	10.9	12.2	16.0	1.1	14.8	17.64
5		7										3			7.0		1.51
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15	I USE COMMICATIONS	56.1	31.6	2		12.6		7					2.2	<u>τ.</u> μ.	1.8	23.4	18. IR 1
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39	·	0.0												1.1	6.3	1.3	10.90
13	_	24.6									9	3	1.1	16.3	1.6	110.3	:
-	WANTO TAVIGATION						1			129.6	121.9	N.2	69.5	- 133.2	156.0	179.0	136.91
~	2 RADAR LAVIGATION	216.1		1								1		5.2	13	2.2	. <b>R</b> 
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	=	÷								1.1				12.6		6.71	9.1	N.Y.
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	: 2			2		0.6	11			1.2	1.4	1.1	1.6	1.1	1	8		=
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				3	3	5.2			<b>8</b> :6	6.1	4.8	4.7	9.9	4.6		8	3	<b>;</b> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
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Mictation         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0	1			-	17	5.5	1.9	2.6	3.6	3.6	3.8	6.9	1.7	4:0	9.9	9.9	3	<b>s</b> i 7j
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	-		:	13			9.6	1.1	0.7	0.7	0.9	9.6		-	8	•	3
Initialization         No.         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot         Lot <thlot< th="">         &lt;</thlot<>	;;	_					1.6	. 1.0	1.5		1.4	1.7	1.1	-	0.4	8	21	<b>z</b> i:
MUTOPITOF         1.3         1.4         2.1         2.3         2.0         2.1         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1	ij:	<u> </u>	10.6	:			7.0	5.3	8.1	3.6	3.0	2.0		2	2.0	8	~	3.76
MUNICITION ANN, A ECONDIN TOULY.         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         <	: :	-	1	-	1.4	1.1	2.0		2.1		1.0	1.7	2.0	9:1	1:1	3.	][ 	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	513		•	ŀ	ŀ	•	•	:	••	•	••	0.0	•	٠	٠			8
W. Communications         1.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4	1	· ·	1.0	1.2	1	1.2		1.2	1.2		9.9	0.7	9.9	•.7		9.9		-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	i S		•			9.6		9.6	0.5	•	9.6	9.4	••	3	:	2.0		•
Instant     4,1     2,1     2,1     2,1     2,1     2,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,1     1,	15	•	2.1	1.1		1:0	11	1.9	1.9		1	1.5	1.6	1.1	1.1	1.01	3	
Iff         2.0         1.1         1.0         1.1         1.0         1.1         1.0         1.1         1.0         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <th>;;3</th> <td></td> <td>1.6</td> <td>13</td> <td></td> <td>2.6</td> <td>2.5</td> <td>2.6</td> <td>2.4</td> <td>2.6</td> <td>1.0</td> <td>1.9</td> <td>1.9</td> <td>1.6</td> <td>1.1</td> <td>1.1</td> <td>-</td> <td>8:</td>	;;3		1.6	13		2.6	2.5	2.6	2.4	2.6	1.0	1.9	1.9	1.6	1.1	1.1	-	8:
Intracticr         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity         Total allicity <thtotal allici<="" th=""><th>13</th><td></td><td>1</td><td>-</td><td>•</td><td>1.1</td><td>1.0</td><td>1.1</td><td>1.2</td><td>9.9</td><td>0.7</td><td>0.0</td><td>4.<b>9</b></td><td></td><td>:</td><td>3</td><td></td><td></td></thtotal>	13		1	-	•	1.1	1.0	1.1	1.2	9.9	0.7	0.0	4. <b>9</b>		:	3		
MISC. COMMUNICATION     1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0     0.1     0.1     0.1     0.1     0.1       MOID WVLCATION     1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1 <t< th=""><th>13</th><td>-</td><td></td><td>••</td><td>6.3</td><td>6.3</td><td>0.1</td><td>9.2</td><td>•.1</td><td></td><td>•</td><td>3</td><td>•</td><td></td><td>-</td><td>-</td><td></td><td>≭i: • ;</td></t<>	13	-		••	6.3	6.3	0.1	9.2	•.1		•	3	•		-	-		≭i: • ;
Build Initiation         3.0         4.0         3.4         3.4         3.4         4.6         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7         3.7	15	<u> </u>	1.9	6.5	•••	1.6	1.6		•	-	•	-			•	R		
MANA         MAVIALITION         11.1         9.4         0.4         0.1         7.3         0.1         7.3         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         <	12	RADIO MAVICATION	2.0	:	-	9: <b>9</b>						9.6					Ï	
Interctive     Colument     6.1     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4     6.4	2	NAMA NAVICATION	11.1	1.1	-				-		3							
	1	CHERCENCY CONTINUED	6.7	•••	•							-				- 		
	12			9.9	•••		0.0				•	•			•			
Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial     Initial	12		••	••	•	••	0.0	:	0.0	•	•	•	•	•	•	8		
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TAME E-3 C-130E FEACENT DISTRIBUTION OF ORGANIZATIONAL AND JUTENEDIATE CONPORENT FAILURES

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$ \begin{array}{                                    $	ATRTAME         1.0422         3.43         0417           COCCET1 AND FUELD         .433         .443         .1334           LANDING GEA         .434         .415         .44         .1334           LANDING GEA         .434         .415         .44         .1334           LANDING GEA         .434         .415         .44         .1334           LINDING GEA         .434         .434         .453         .445           LINDING GEA         .434         .434         .453         .1304           LUNDING GEA         .0116         .0116         .13         .2156           LUNDALIC         .0116         .2356         .24         .2104           LICIDINING, PRESUNTATION         .2356         .24         .2104           LICIDINING, PRESUNTATION         .2356         .24         .2104           LICIDINING, STRIM         .2356         .24         .2104           LICIDINING, STRIM         .2351         .2355         .2156           LICIDINING, STRIM         .2351         .2356         .2104           LICIDINING, STRIM         .2356         .3017         .1014         .2104           LICIDINING, STRIM         .2314         .2104 <th></th> <th></th> <th>2000 2000 2000 2000 2000 2000 2000 200</th> <th><b>885555565</b></th> <th><b>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</b></th> <th>╺╉╋╋┲╋╋╋</th> <th>╾┽╍┼╍┼╍┼╍┼</th> <th></th> <th>-</th> <th></th>			2000 2000 2000 2000 2000 2000 2000 200	<b>885555565</b>	<b>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</b>	╺╉╋╋┲╋╋╋	╾┽╍┼╍┼╍┼╍┼		-	
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FISC. COMMUCATIONS       17243       .17       .0679       .084       .0004       .01       .02       .02       .02       .011       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0.0114       0	(HE RGEIKY CONTINUESTIONS		.0120	0110.	10.	20.	ઝ		_	_	0510.0
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TABLE E-4 C-13GE OAGANIZATIONAL-AND INTERNEDIATE CONPONENT FAILUNES FER SOATIE

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TABLE E-S C-130E CONPONENTS NEPATIVED OFF BASE PER 1000 FLIGHT HOURS

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It lain conteats         0.95         2.63           110800 Prove Proven RIAIT         15.81         27.65           110800 Prove Proven RIAIT         1.24         12.41           110800 Prove Proven RIAIT         1.24         1.61           110800 Prove Proven RIAIT         1.24         1.61           110800 Provent Construction         2.18         2.16           111100 Provent Construction         2.19         1.00           111100 Provent Construction         2.00         0.05           1111100 Provent Construction         2.13         2.13           11111100 Provent Construction         2.03         2.93           11111100 Provent Construction         2.15         2.93           11111100 Provent Construction         2.13         2.13           11111100 Provent Construction         2.13         2.13           11111100 Provent Construction         1.13         1.14           11111100 Provent Construction         1.13         1.14           111111100 Provent Construction         1.13         1.14           111111100 Provent Construction         1.14         1.14           1111111100 Provent Construction         1.14         1.14           11111111100 Provent Construction         1.14								8 5 8 6 8 9 9 9 9 8 4 8 4 F					S 2 9 8 6 9 5 5 5 5 6 7 9
Iuado Pade Pouch Primi         IS.4         27.45           MIXII TAP Poet Primi         1.34         1.34           MIXII TAP Poet Primi         1.34         1.34           MIXII TAP Poet Primi         1.34         1.34           MIXII TAP Poet Primi         1.34         1.34           MIXI TAP Poet Primi         0.34         1.41           MIXI TAP Poet SURV         1.34         1.49           MIXI CONTIONING, PRESSURTATION         0.02         0.05           MIXI CONTINUESTION         0.02         0.05           MIXI CONTINUESTION         0.02         0.05           MIL         2.53         2.93           MIL         2.55         2.93           MIXI MARK         1.101         10.18           MIXI MARK         1.101         1.191           MIXI MARK         1.111         1.12           MIXI MARK         1.134         1.131           MIXI MARK         1.134         1.141           MIXI MARK         1.141         1.141           MIXI MARK         1.141         1.141           MIXI MARK         1.141         1.141           MIXI MARK         1.141         1.141           MIXI MARK <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2 9 9 6 9 9 9 9 9 9 9 9 9</td>													2 9 9 6 9 9 9 9 9 9 9 9 9
AUXIII LAPP FOLE IN ALT         L. 1. 24         L. 4.4           INTORALI (C. FADATLICIA         20         16           ALA CONDITIONING, PARSSARTZATION         20         1.00           ALA CONDITIONING, PARSSARTZATION         00         100           ALA CONDITIONING, PARSSARTZATION         00         1.00           ALA CONDITIONING, PARSSARTZATION         00         100           ILLATTLC TYSICA         00         00         100.0           ILLATTLC TYSICA         00         00         10.0.0           ILLATTLC TYSICA         00         00         10.0.0           ILLATTLC TYSICA         00         00         10.0.0           ILLATTLC TYSICA         00         00         10.0.0           ILLATTLC TYSICA         0.0.0         00         00           ILLATTLC TYSICA         00         00         00							S 22 7 1 2 2 5 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			23.24 24.25 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45			8 8 6 9 5 5 5 5 6 6 8 8 8 8 6 6 8 5 8 5 6 6 7 8
Index (C FAOTTICR         2.98         3.16           A.M. COODTIONHIE, PETSURIATION         10.51         10.70           ILECENICAL PORT SUPLY         0.13         10.70           ILECENICAL PORT SUPLY         0.13         10.51           ILECENICAL PORT SUPLY         0.10         10.61           ILECENICAL PORT SUPLY         0.10         10.61           ILECENICAL PORT SUPLY         0.10         10.61           ILECENICAL PORT SUPLY         11.10         10.61           ILECENICAL PORT SUPLY         11.10         2.49           POLL         2.13         2.49           OTCLA         2.10         2.11           INCRAALIC         11.10         2.13           OTCLA         2.14         3.01           INCRAALIC         12.14         3.01           INCRAALIC         12.14         3.01           INCRAALICS         6.14         1.26           INCRAALICS         6.14         1.26           INCRAALICS         6.14         1.26           INCRAALICS         6.14         1.26           INTRIPARTICS         0.0         0.0							× • • • • • • • •			23.26 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2	• • • • • • • • • • • • • • • • • • •		8 6 9 9 9 9 9 9 9 9
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Interact IC         II.10         10.65         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93         2.93						S S S S S		8.4.4		9-9-9- 9-9-9-9- 2-4-9-9-9-			1.10.2.8
PUL         2.55         2.93           077G/m         201         3.11           017G/m         3.01         3.11           017G/m         3.01         3.11           017G/m         3.01         3.11           012G/m         1.01         3.01           012C/m         1.01         1.01           012C/m         1.01         1.01           012C/m         1.01         1.01           012C/m         0.01         0.0           012         0.0         0.0						S 8 8 8	8 2	222		8 - 6 - 6 2 - 5 - 12 2 - 5 - 12		3.3.4.5	1929
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IIIF FRANCIIS         66.64         63.17           AUID-ILOT         6.13         5.13           AUID-ILOT         6.13         5.13           AUID-ILOT         6.13         6.14           MUL UYF THM ANA, A ACCORDING FQUIP.         0.14         0.18           ILE CASENICATIONS         0.0         0.0         0.0	•	<u> </u>		<u> </u>		8.1	1.99			23.48		8.9	N. 20
AUTO-PLOT         6.32         6.43           MAL (197 ETLINI AUX), A RECORDING EQUIP.         6.13         -           NE CASTONICAL [DLS         0.16         -           NY CASTONICAL [DLS         0.0         0.0							17.29	14.27	10.97		17.2		
HAL IN'T FILM AUX, & RECORDING EQUIP.						9.42	9.91	7.06	9.40	13.35	12.4	13.12	3
12 C224011CA11015 0.14 0.10	•	•	•	0.0	•		•			•	0.2	0.15	0.02
Mir CorteniiCATIONS 0.0 0.0	0.22 0	0.26 .0.47	0.3H	0.76	0.42	0.46	0.35	0.44	0.39	1.10	0.7	0.56	0.42
		0.05 , 0.07	0.11	0.22	0.17	0.20	0.21	0.17	0.19	0.57	0.3	0. X	0.16
uif costaulcations 0.0 1.04	1.02 0	0.95 . 0.76	0.82	1.8	1.13	1.20	0.78	0.74	1.29	1.97	•	1.64	1.0
0.05 0.24	0.23 0	0.22 0.22	0.20	0.18	0.25	0.26	0.16	0.22	0.28	0.40	0.3	0.33	0.24
115 0.66 0.70			0.66	1.29	0.97	1.01	1.04	0.63	1.01	1.47	1.4	94.1	0.9
IN REGIRT CONTINUESTIONS	0.68 0	-	0.24	0, 39	0.14	0.96	1.1	0.79	R	1.19	0.1	9	8
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NADIO (J/V (GATION 2.35 2.69	2.01	•	3.61		-	4.20	3.%	3.24	1.01	6.6		_	3
AADAN IAVIGATION 0.0 9.			7.35	6.42	10.30 10		10.73	11.0	10.00	16.99	13.6		8.8
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9) EXMOSIVE DEVICES	•	8. 8.	•	.   .	•		•	[.]	•	•	0.0	9.0	0
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TOTALS 134.66 171.63 2	170.57 170.61	61 209.42	170.06	161.07	160.61	157.64	115.64	115.12	2.2	100.77	11.1	181.95	10.01

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		- 1										2.0	0.20	17.0	0.70	0.42	ددر.ه	9.30
R1 Interference         Exp         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18         L18 <thl18< th=""></thl18<>	2l	<u> </u>				20.00			1.2	11.11	11.48	12.12	22.45	14.70	11.10	9.62	91.1	
THE MART         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         TAN         T						1.46	99.1	X	202	1.2	101.	1.1	1.17	1.83	1.11	9.1	1.6	3
	_	FLIGHT SURFACE MAN	2			19.91	10.0	8	2.2	11.11	19.91	23.67	10.01	19.76	20.63	19.94	21.82	
	<b>z</b>  :	TUROU FRUE FOREN FLANT					1.01			1.52	1.67	1.05	1.1	2.17	2.10	2.29	2.61	3.1
All Consolitionality, Prissultation         E.3         E.3         E.4         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1         E.1	51:	AUALE LART FUNCE FLORE			3	2.07	1.72	2.2	2.66	2.45	2.82	2.9)	1.76	3.84	3.09	2.4	3	1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	׆	ITTERAL IL FROTLILLE ALS CAMPTIANINE DARGEMETATION			7	6.0	6.51		1.7	×.×	7.62	9.15	9.8	6.33	7.19	3	9.9	
	=	CLECTRICAL POLES SUPPLY	0.0	1.12	1	1.24	2.77	1.16	1.76	1.55	1.64	1.46	3.6	1.1	2.01	2.2	3.5	1.5
Interview         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex         Ex <thex< th="">         Ex         Ex         &lt;</thex<>	1	ALDURING VETEM	0.0	0.0	10.0	0.10	0.0	0.11	•.11	<b>9</b> .08	0.0	0.0	0.0	0.0	0.0	2.0	0.0	8.0
Mill         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link         Link <thlink< th="">         Link         Link         <thl< td=""><th>: :</th><td></td><td>1</td><td>119</td><td>M</td><td>6.61</td><td>19.9</td><td>1.8</td><td>2.16</td><td>4.43</td><td>4.16</td><td>4.24</td><td>2.45</td><td>2.1</td><td>Z.</td><td>-</td><td>2</td><td>1</td></thl<></thlink<>	: :		1	119	M	6.61	19.9	1.8	2.16	4.43	4.16	4.24	2.45	2.1	Z.	-	2	1
Mill         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai         Liai <thliai< th="">         Liai         Liai         <thl< td=""><th>-1:</th><td></td><td>8</td><td>1.1</td><td>1.1</td><td>2.17</td><td>2.21</td><td>2.62</td><td>9.9</td><td>3.24</td><td>1.55</td><td>4.01</td><td>J. R</td><td>4.2</td><td>5.8</td><td>2.5</td><td>5.9</td><td>i</td></thl<></thliai<>	-1:		8	1.1	1.1	2.17	2.21	2.62	9.9	3.24	1.55	4.01	J. R	4.2	5.8	2.5	5.9	i
Misculi III         B.44         B.73         B.44         B.74         B.44         B.74         B.44         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74         B.74	:12		151	1	1.8	H	2.12	8	8.5	2.33	2.45	16.5	2.55	2.66	\$ .9	2.76	2.90	8.7
Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time         Time <th< td=""><th>-</th><td></td><td>0.64</td><td>0.78</td><td>0.83</td><td>9.6</td><td>1.02</td><td>0.91</td><td>0.61</td><td>1.11</td><td>2</td><td>1.1</td><td>0.94</td><td>1.44</td><td>7.7</td><td>•</td><td>7.7</td><td>9</td></th<>	-		0.64	0.78	0.83	9.6	1.02	0.91	0.61	1.11	2	1.1	0.94	1.44	7.7	•	7.7	9
MUDPHION         2.70         3.44         3.27         4.64         5.56         5.56         5.56         6.66         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86         6.86	4:		21.75	31.10	31.42	27.59	28.02	23.94		21.40	19.79	11.11	12.40	13.97	12.99	12.16	11.05	1
Matrix Institution         0.10         0.11         0.12         0.13         0.14         0.13         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14 <th>11</th> <td></td> <td>5.20</td> <td>3.40</td> <td>5.2</td> <td>4.02</td> <td>1.6</td> <td>1.63</td> <td>6.5</td> <td>5.5</td> <td>6.98</td> <td><b>6. B</b></td> <td>6.06</td> <td>6.9</td> <td>£</td> <td></td> <td></td> <td>_</td>	11		5.20	3.40	5.2	4.02	1.6	1.63	6.5	5.5	6.98	<b>6. B</b>	6.06	6.9	£			_
Iff CONNECTIONS         0.01         0.11         0.13         0.14         0.13         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14         0.14	21 3	Autoritation Auto A scranting Chila		•	. 	•	•		0.0	.		•	•	•	•		0.10	6.9
Mir Construction         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	813		(0.0	0.10	0.13	0.16	0.22	8.0	0.47	0.26	0.25	0.24	9. X	0.7	0.61	3		2
unif Christialis     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0	;; S	wir committail ais	0.0	0.0	0.01	6.01	0.03	0.06	0.14	0.10	0.13	0.14	0.15	0.14	20	2.0	0.15	
Interferent         6.01         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11         6.11		and Cluranife at Mit.	0.0	0.60	9.6	0.56	0.34	0.41	0.62	0.0	0.76	0.51	0.64	0.95	1.9	_	1.0	;
III         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41	1:		0.02	0.14		0.13	0.11	0.12	0.11	0.16	0.16	0.11	0.19	0.21	0.22		8.0 	
Instruction         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41         0.41	:::		10.0	0.41	0.41	0.46	0.76	0.52	0.0		0.61	0.7	0.55	0.74	0.81		1.04	1
HIS: CONTINICATIONS - 0.04 0.04 0.05 0.00 0.01 0.01 0.00 0.01 0.01 0.00 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.02	313	AND DESIRE COMPLETENT AT LONS	0.0	0.41	0.6	0.31	0.02	8.0	0.21	0.64	0.62	0.92	0.69	1.02	1.10	6.2 1	0.5	
MODIO INV CATION     1 1.70     1.51     1.51     1.51     1.51     1.51     2.61     2.61     2.61     2.61     2.61       MODIO INV CATION     -0.0     -0.0     -0.01     1.71     1.71     1.71     1.72     1.71     1.70       MODIO INV CATION     -0.0     -0.01     1.61     1.61     6.01     0.01     0.01       MODIO INV CATION     -0.0     -0.02     0.02     0.01     0.02     0.01       MARINENC COULD     -0.0     -0.01     0.02     0.01     0.02     0.01       MARINENC COULD     -0.0     -0.02     -0.02     0.02     0.01     0.01       MARINENC COULD     -0.0     -0.01     0.02     0.01     0.01       MARINENC COULD     -0.0     -0.00     -0.01     0.01     0.01       MARINENC COULD     -0.0     -0.00     -0.01     0.01     0.01       MARINENC COULD     -0.0     -0.00     -0.00     -0.00     0.01       MARINENC COULD     -0.0     -0.00     -0.00     -0.00     -0.01       MARINENC COULD     -0.01     -0.00     -0.00     -0.01     -0.00       MARINENC COULD     -0.01     -0.01     -0.01     -0.01       MARINENC CO	15		0.0	0.04	0.04	0.05	0.0	<b>0.0</b> 5	0.02	0.04		8	0.01	8.0	0.02	8	0.0	
MANN MY CATILOT     T.07     E.50     E.61     E.63     E.63     E.63     E.63     E.63     E.63     E.64     E.93     7.17     7.12     7.28     7.04       INVERTING     0.00     0.01     0.01     0.01     0.01     0.01     0.01     0.00       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01     0.00       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01       INVESTING     0.01     0.02     0.01     0.02     0.01     0.00       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01       INVESTING     0.01     0.02     0.02     0.01     0.02     0.01       INVESTING     0.01     0.02     0.02     0.01     0.02     0.01       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01       INVESTING     0.01     0.02     0.01     0.02     0.01     0.01       INVESTING     0.01     0.01     0.02     0.02     0.01     0.01	12	KADIO IVY GATION	1.20	1.5.1	1.65	1.79	1.59	2.06	3.16	2.47	3	1.2		2.8	2.7		21	ļ
HKKATARY (QUIP 4KI <t< td=""><th>: 2</th><td>RADAM NA * CATTON</td><td>0.0</td><td>5.5</td><td>5.42</td><td>10.3</td><td>1.1</td><td>4.2</td><td>3.61</td><td>6.41</td><td>6.95</td><td>1.1</td><td>1.12</td><td>* -</td><td>\$</td><td>55.<b>6</b></td><td>8</td><td>2</td></t<>	: 2	RADAM NA * CATTON	0.0	5.5	5.42	10.3	1.1	4.2	3.61	6.41	6.95	1.1	1.12	* -	\$	55. <b>6</b>	8	2
		ENDATING FAILE 4 NT	0.0	0.0	0.02	.b.bl	8.9	0.01	0.02	0.02	0.02	10.	•	8.0	8 0	6.0	8°.0	0.0
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	-	ĺ	8.81	100.001	100.00	100.00	100.00	30.00	100.00	100.00	8	100.00	100.00	100.00	100.00	100.06	100.001	100.00

TAME E-6 C-130E PENCENT DISTRIBUTION OF COMPONENTS NEPAINED OF DASE

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TABLE E-7 C-130E CONPONENTS NETATINED OFF DASE PEA SOATLE

SYSTEM NAME	7961	<u>6</u>	5	-<061	10051	1961	BOGT		-0/61	1/61	2/61	C/61	1974	2791	9/61	
AT DECALME				1200	2100.	2002.	(100)	<b>8</b> 100.	(100.	.0022	1200.	.0026	1408.	1200.	0000.	\$200.
ALANTANA A M BIISELACE				88	1900.	00100	6200.	6009.	1100.	<b>600</b> .	6000.	,0025	100.	2100.	6700.	6100.
<u> </u>				.1541	2163	.1200	AC 10.	1520.	CLM.	1000.	.0710	.0618	.0544	N.	1500	918
_				.010	6210.	2006.	[600]	.0062	.0056	.010h	.0067	.0064	969.	6500.	38.	28.
				.1146	1201.	2270.	1260.	.0634	1950.	.0755	A53.	. <b>64</b> 32	10	510.	1980.	1110.
24 AITTI TARY POLED PLANT				3100.	1110.	1900.	\$608.	8046	1500.	6500.	.0056	.0076	1110.	1900.	2010.	208.
			ĺ	1510.	919.	(110.	1042	889	.00M	600.	888.	KIS.	.0162	1910.	NOO.	.010.
ATE COUNTITIONING PERSUBITATION				(0)0	1/10.	1660.	2220	1220.	EC 20.	16/0.	9620.	2620.	8/68.	.0376	.0357	NCO.
FIETBICA POLE SUPAT				<b>6</b> 8	er 20.	.0064	1300.	.0017	9300.	6500.	.0064	2900.	3019.	06090	1010.	209.
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				.0165	0410.	6210.	1110.	869	.010	6210.	1210.	2510.	<b>2820</b> .	.0209	819.	1210.
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				200.	1100	.0018	1200.	1(00.	CC 90.	<b>1100</b> .	100.	1909.	1/00.	.0069	1906.	18.
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445/2011 OF		3		1629.	626.	6220.	0/10.	.0168	C810.	1130.	<b>6120</b> .	.0245	MCO.	.0264	MCO.	1120.
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IIE FIRMMIEATEONS		    		1100.	6100.	0100.	1100	9000,	6009.	9000.	2100.	M 90.		0200.	100.	C100.
WIF COMPACTANT			1	1000	C000.	1000	1004	1000.	1000.	<b>1000</b> .	9000.	9008.	1100.	9009.	9100.	5000
ILLE COMPACTIONS				1999.	100.	1200.	6109.	1200.	.0023	(100.	1200.	100.	.0057	£00.	240.	1290
turf epitors				(199)	1000.	0000	1009.	2000.	9000	1000.	9000	.000	2100.	8000.	6000	9000.
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FAR ACTINE COMMINICATIONS				ÎN.	.000	0100.	(000;	9100.	6100.	6700.	2200.	¥00.	<b>8</b> 500.	9200.	1200.	0200.
MISE EMERALIZATIONS				1981	1000	(000-	:	1000.	1000.	•	•	198	•	9000.	1000.	1000.
RADIO MAVICATION					1610.	1010.	9608°	\$100.	1809.	.0087	9699.	1010.	\$610.	.0147	.0146	<b>9</b> 019.
RADAR MAYICATION				200	6110.	1120'	0110.	\$610.	1120.	9530.	1620.	.0250	.0494	1860.	10365	15277.
CHERCENCY EQUIPHENT				199		3009.		1000.	Loga:	•	•	600.	·	1000.	1000.	1000
PERSONAL CONTINUES					ŀ	ŀ	•		•	•	•	•		•	9999.	998
EIMOSIVE DEVICES				•			•		•	•	•	•	88	9008.	9009.	8000
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101M S				CHEC.		2005.	Ă	282	(M)	615.	Ą	ļ	3			Į.

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22	· system wwe	1962•	1963•	1964•	1965 •	1966	1967•	1968	1969•	•0/61	1 <i>1</i> 61	2/61	1973	4/61	1975	1976	IN NEW ANTIME
13	AIRFRANE	1.1.1	1.01	8	1.22	2.45	1.63	1.02	9.2	6.59	1.33	9.6	0.15	0.3	•.1	0.27	9.8
12	<u> </u>	1.44	2.15	2.64	**	111	3.6	3.6	2.14	3.4	3.22	0,48	0.55	9.4		7.0	11.1
12	•	15.02	4.9	4.54	6.81	N.L	6.63	142	3.4	2.74	a.	1.21	6.6			8	N.C
1=	fit that control s	0.4	0.46	6.41	0.2	Q. X	111.0	0.68	9,26	0.23	9.21	6, 16	0.0	6.13	0.0	0.0	0.20
12	TURBO PRUP POWER PLANT	1.6	2.74	5.24	1.20	1.11	7.63	1.96	5,72	1.51	2.70	1.12	2.64	0.45	4	5.15	6.5
12	AUDILIANT FONCE PLANT		020.	020	620'	0.40	0.27	0.13	0.17	0.11	0.12	0.0	0.05	0.16	•	<b>0</b> .10	0.16
i¤		1.5.1	0.63	0.65	0.61	1.19	0.74	0.41	0.44	0.37	0.04	0.06	0.03	0.0	0.0	0.25	9.9
=		1.61	1.04	1.0)	1.99	2.67	2.20	2.25	1.69	1.57		0.74	9.1	1.1	4.	1.7	
17		0.71	0.74	0.77	0.01	0.87	0.87	1.59	0.94	0.97	0.91	0.92	1.13	1.22	0.7	1.16	16.0
<b> </b> ₹	LIGHTING SYSTEM	1.73	1.69	1.62	1.55	8.1	1.42	1.51	1.29	1.22	2.12	1.16	1.12	1.05	0.0	1.1	*
12	ITTPRALE LE JUD PIELHATIC	1.1	0.73	0.75	0.M	1.1	1.01	0.03	0.61	0.51	0.40	57.0	6.0	0.43	0.3	0.25	3.0
: 2		0.41	0.39	0.24	6.34	0.14	0.29	0.41	0.23	0.21	0.28	0.07	0.10	0.13	0.1	0.02	0.24
12	01714 #	0.76	0.16	0.17	0.21	0.43	0.28	0.18	0.11	0.07	0.04	10.0	0.02	•	•	8.0	0.14
19	HISC. UTILITIES	1.94		1.72	1.61	2.20	1.40	0.41	1.10	1.07	1.10	9.42	0.65	1.10	0.5	0.45	1.20
12	-		0.26	0.13	0.0	1.98	10.0	0.0	0.11	0.12	0.10	0.12	0.27	0.17	0.1	0.0	0.12
:3	_	•	•	•		0.11	•	8	•	•	•	10' <b>0</b>	•	•	0.0	8.9	0
:3			•		•		•	9.8	·	•		•	•	•	·	8	0
3	ILE CORBUTICARIONS	0.24	0.11	0.14	0.15	0.18	0.16 1	0.15	0.13	0.12	с. о	0.0	0.11	0.13	0.3	0.51	0.15
3	WIF CONTINUCATIONS	0.0	0.01	0.04	9.06	0.14	9.0	0.0	9.0	0.0	0.0	0.0	0.01	0.0	0.0	8	9.0
3	INF COSTMICALICHS	1.11	0.58	9.0	0.66	0.91	0.7	0.0	0.50	0.03	0.22	0.21	0.26	0.44	0.3	0.11	0.51
1	_	0.48	0.45	0.42	0.3	0.18	8. N	9.41	0.26	0.23		9.0	0.01	9.0	0.1	0.03	0.27
14	_	0.70	0.65	0.6 9	0.55	0.60	0.41	0.72	0. J	0.29	0.0	10.0	0.0	0.19	0.1	0.05	0.15
3	-	0.0	0.05	0.11	0.16	0.22	-	0.13	0.12	0.12	0.0	0.01	0.02	0.18	0.1	0.15	0.12
5	-	0.52	0.14		0.10	9. X	0.22	0.02	0.0	8	8.0	0.0	0.01	8	0.0	8.0	0.12
2	KANTO INVIGATION	3.1	0.76	0.78	(8.0	0.58	2.0	1.69	6.6	0.64	0.31	0.27	0.20	0.54	9.0	1.03	0.70
2		2.67	1.02	1.05	1.16	0.91	1.1	2.61	0.8	0.77	0.72	0.13	0.20	0.44	9.0		16.0
2		0.02	0.11	0.31	0. (7	a.8	0.49	0.39	¥.'a	0.33	0.0	0.12	0.0	0.55	0.3	-	0.22
2	-	ŀ	•			9.9	•	•		•	•	•	•	10.0			0.0
÷.	EIMOSIVE LEVICES	•	•	•		8.0	•	•	•	•	•	•	•	•	۰	0.0	.0
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I	101N S	19.18	23.42	26.20	18.62	N.N.	33.10	11.1	11.11	2.8	17.01		10.12	10.31	11.61	16.20	23.26
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TAME E-B C-130E, COMPONENTS CONDENNED PER 1000 FLIGHT NOUNS

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TALLE E-9 C-130E PENCENT DISTRIBUTION OF COMPONENTS CONDEMNED

	59	SYSTEM NAME	1962•	1963•	1964 •	1965+	1966	1967-	1968	•6961	+07et	1201	2/61	1973	1974	1975	1976	15 YEAR AVENAGE
	1=	<u> </u>	2.92	4.40	4.11	4.24	6.07	4.8	31.6	3.47	2.92	9.1	1.0	1.40	1.1	4.4	1.1	3.16
1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.00000 (MAG)1.000000 (MAG)1.000000 (MAG)1.0	12	÷	14.04	10.85	10.04	9.M	12.03	10.74	10.01	11.4	9.6	19.61	1.1	5.12	2.64	11.12	11.2	H.
	12		29.95	10.53	17.26	411	24.40	19.73	14.81	15.20	19:01	10.20	81.15	27	514	319	111	11:11
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12		0,90	1.94	1.63	1.10	1.01	1.8	2.00	1.16	1.14	1.11	1.75	0.65	0.72	8	0.20	2.1
Other I have Point         1, 1         0, 41         0, 73         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41         0, 41 <th0, 41<="" th="">         0, 41         0, 41</th0,>	:2		35.15	11.78	20.08	21.30	0.72	23.05	24.29	25.41	27.40	15.97	12.24	24.56	46.48	11.11	39.14	23.65
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12	-	1	0.05	0.76	0.77	1.12	0.02	0.40	0.76	0.49	0.75	0.87	0.47	0.44	9.64	0.66	0.77
	18	_	3.13	2.26	2.09	2.04	1.14	2.24	1.26	1.95	1.01	0.23	. 0.66	1.72	0.22	8.9	1.64	10.5
$ \begin{array}{c cccc} \operatorname{Ricch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kicch} \operatorname{Kich} \operatorname{Kicch} \operatorname{Kich} \operatorname{Kich} \operatorname{Kich} \operatorname{Kich} \operatorname{Kich} Kic$	17	<u>.</u>	7.20	7.86	7.11	6.64	7.49	6.45	6.8	1.11	7.76	6.3	9.0	13.96	1. 32	10.27	11.45	7.40
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	:\$	-	1.42	3.16	2.93	2.70	2.44	2.63	4.87	4.10	4.80	N. 3	10.16	10.61	6.71	4.29	1.63	3.0
	:=	_	3.49	.722	6.16	6.17	3.65	4.29	4,63	6.3	6.03	12.10	12.57	10.42	6.78	5.48	2.8	<b>6.</b> 82
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	;₽		4.25	3.12	2.45	8.8	3.73	3.05	7.54	2.71	2.52	8.2	1.03	2.70	۲.γ		3	2.82
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	: 4		0.82	1.67	1.37	1.13		0.84	1.26	1.02	1.04	1.61	0.11	0.93	0.72			1.03
NISC UNLY 1S.         1.01         1.01         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13         6.13	:0	DIJGIN	1.52	0.68	0.65		1.21	0.85	6.65	0.49	0, 35	0.23	0.11	0.19	•	•	8	3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	2	_	1.07	1.01	6.54		6.17	4.23	1.15	6.24	6.29	6.22	6.68	5.12	6.49	3.42	36.5	2.2
Autorital         Autorital $0.11$ $0.20$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$ $0.11$	13	-	0.62	1.11	0.49		6.55	0.03	0.21	0.49	0.59	0.57		15.51	0.96	0.68	0.20	0.51
Intervition         Matrix is attracting (2016, $-$ ) $                                                                                            -$	: 23		•	•	•		0.11		3.0	•		•		•		8	18.0	0.0
If (Corstantication)         0.04         0.03         0.04         0.04         0.04         0.04         0.01         0.07         1.02         0.71         2.03         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.11         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01 <th0.01< th="">         0.01         0.01<!--</td--><td>12</td><td>-</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>3.0</td><td>•</td><td>•</td><td>•</td><td></td><td>·</td><td>•</td><td>•</td><td>8.0</td><td>0.0</td></th0.01<>	12	-	•	•	•	•	•	•	3.0	•	•	•		·	•	•	8.0	0.0
wir (orstanitation)         0.0         0.04         0.14         0.20         0.31         0.14         0.20         0.31         1.31         1.33         2.32         2.31         2.33         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         2.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31         1.31 <th1.31< th="">         2.31         2.31<td>13</td><td></td><td>0.48</td><td>0.60</td><td>0.53</td><td>0.50</td><td>0.50</td><td>0.48</td><td>0.46</td><td>0.50</td><td>0.59</td><td>0.75</td><td>0.23</td><td>1.02</td><td>0.72</td><td>2.05</td><td>3.36</td><td>0.64</td></th1.31<>	13		0.48	0.60	0.53	0.50	0.50	0.48	0.46	0.50	0.59	0.75	0.23	1.02	0.72	2.05	3.36	0.64
uni Commitations       1.0       2.4       2.4       2.10       2.44       2.10       2.44       2.11       1.14       2.41       2.10       0.01       0.11       0.01       0.11       0.01       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11 </td <td>3</td> <td>_</td> <td>0.0</td> <td>0.04</td> <td>0.16</td> <td>0.20</td> <td>0.39</td> <td>0.14</td> <td>0.06</td> <td>0.18</td> <td>0.20</td> <td>9.0</td> <td>0.11</td> <td>0.0</td> <td>0.11</td> <td>•</td> <td>8.0</td> <td>0.17</td>	3	_	0.0	0.04	0.16	0.20	0.39	0.14	0.06	0.18	0.20	9.0	0.11	0.0	0.11	•	8.0	0.17
Internation     0.31     1.32     1.33     1.14     1.14     1.14     1.14     0.40     0.41     0.41     0.41       If     1.14     1.14     1.14     1.14     1.14     1.14     1.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     1.15     1.14     1.15     1.14     1.15     1.15     1.15     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     0.11     1.15     1.15     1.15     1.15     1.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15     0.15	: 2		1.07	2.48	2.28	2.20	2.64	2.3	5. GB	2.22	2.13	1.26	2.8	2.42	2.42	2.05	2.17	2.27
If for the formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation of the first formation o	13		0.96	1.92	1.60	1.8	0.05	0.97	1.35	1.16	1.14	2.41	0.87	8.0	0.44	9	0.20	1.15
INERGINCT COMMERTIONS     0.06     0.21     0.43     0.46     0.46     0.61     0.64     0.16     0.61     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16     0.16	3		1.40	2.78	2.28	1.1	1.12	1.36	1.21	1.51	1.0	0.40	0.11	0.37	1.05	3.0	0.33	1.50
MISC. CONNECTION.     1.04     0.06     0.53     1.01     0.06     0.54     0.11     0.11     0.11     0.01     0.00     0.11       MOID MVIG.100.     1.12     1.23     1.21     1.23     1.21     1.23     1.21     1.24     1.11     1.26     1.18     2.34     1.11     2.35     1.14     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.11     2.31     1.21     1.21     1.21     1.21     1.21	3		0.06	0.21	0.42	0.53	0.62	0.48	9.0	0.53	0.59		0.4	0.19	0.99	9	6.0	0.51
MODIO MANGETION         1.21         2.27         2.17         1.60         2.01         3.17         1.78         2.61         4.11         2.61         3.11         1.78         2.61         4.11         2.61         3.11         1.78         2.61         4.11         2.61         3.11         1.78         2.61         3.11         1.78         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.11         2.61         3.01         3.11         2.61         3.01         3.01         3.01         3.01	S		1.04	0.60	0.53	0.57	1.01	0.66	9.0	0.44	0.40	1.15	0.11	9.6	8.0	•	8	0.51
MOAR HAVECTION     6.22     4.3     1.39     1.47     2.64     4.11     6.00     1.31     2.64     4.11     2.64     2.14     2.64     4.11     2.64     2.14     2.64     4.11     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.14     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64     2.64	2	-	1.21	3.25	2.97	2.77	1.63	2.01	. I.	3.0)	1.1	1.78	2.95	1.66	2.97	4.11		s.s
	2	-	8.X	*	1.99	3.87	2.64	4.11	6.03	3.91	1.11	4.14	2.06	1.66	2.42	2.74	4.67	1.89
	=		0.04	0.47	1.16	1.67	8.0	1.4	8.1	1.61	1.63	9.6	1.31	•	•	2.05	0.0	1.37
LIPRONVE MVIETS	21		•		•	•	8	•	•	•	•	•	•	•	9.0	•	8.0	
	21		•	•	•	•	8	۰İ	•	•	•	•	•	•	•	•		
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Intrinsical         Table is indication         2.0         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1 <th2.1< th="">         2.1<!--</td--><td></td><td>4.</td><td>.16</td><td>.1</td><td></td><td>. 14</td><td>:</td><td>. 11</td><td>H.</td><td>9</td><td>0.0</td><td>8</td><td>8</td><td>51.</td><td>0.1</td><td>3</td><td><b></b></td></th2.1<>		4.	.16	.1		. 14	:	. 11	H.	9	0.0	8	8	51.	0.1	3	<b></b>
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# APPENDIX P:

### MAINTENANCE DIGEST REPORT STATISTICAL PROCEDURES

- Step 1 Monthly Maintenance Digest reports, containing detailed assigned maintenance personnel allocations by 62 work centers, were collated for the months of September, 1975 through July, 1976 (11 months).
- Step 2 Assigned maintenance manpower allocations encompassing officers, enlisted and civilian personnél were recorded for each of the 11 months of data released by Little Rock and Pope AFB's. Assigned manpower allocations, entered by grade in rank/skill levels were aligned to the 15 DCM work centers, 18 Organizational Maintenance Squadron work centers, 19 Field Maintenance Squadron work centers, and 10 Avionics Maintenance Squadron work centers. (Total of 62 work centers.)
- Step 3 Assigned manpower allocations derived in Step 2 were summarized in the manner depicted in Table 10. Total numbers of officer, enlisted and civilian personnel allocated to Little Rock and Pope AFB's, were then merged and aligned to the total numbers of possessed C-130E/H aircraft at the two MAC bises. This enabled the developments of:
  - Average numbers of officer, enlisted and civilian personnel assigned to the DCM's, OMS's, FMS's, and AMS's of Little Rock and Pope AFB.
  - 2. Average numbers of possessed aircraft by month.
  - 3. Average number of possessed aircraft over the total 11 month period.
  - 4. Numbers of officer personnel assigned per possessed aircraft within the DCM's, OMS's, FMS's and AMS's.
  - Numbers of enlisted personnel (by skill levels 9, 7, 5, and 3) assigned per possessed aircraft within the same work locations noted in number 4 above.
  - 6. Numbers of civilian personnel assigned per possessed aircraft by work locations noted in number 4 above.
- Step 4 Data derived during Step 3 enabled formulation of officer, enlisted, and civilian manpower loading constants per C-130E aircraft. This encompassed:

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1. Numbers of DCM personnel required per UE.

a. Officer personnel

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- b. Enlisted personnel
- c. Civilian personnel
- 2. Numbers of OMS personnel required per UE.
  - a. Officer personnel
  - b. Enlisted personnel
  - c. Civilian personnel
- 3. Numbers of FMS personnel required per UE.
  - a. Officer personnel
  - b. Enlisted personnel
  - c. Civilian personnel
- 4. Numbers of AMS personnel required per UE.
  - a. Officer personnel
  - b. Enlisted personnel
  - c. Civilian personnel

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## APPENDIX G:

#### USAF OPERATING AND SUPPORT COST REPORTING SYSTEM (OSCR)

Based on the continuing emphasis and requirements to be able to account for actual operating and support cost of various weapon systems, the Air Force was tasked in early 1974, by the Department of Defense, to develop a Management Information System (MIS) that would identify their weapon system operating and support (O&S) costs. Headquarters USAF Comptroller, Cost Analysis Division (ACMCA) is presently developing a USAF Operating and Support Cost Reporting (OSCR) System to satisfy this requirement. As outlined in Reference, Isone of the initial conclusions during phase I of accomplishing the above task was to realize that no data system in the Air Force directly associated or captured all operating and support (O&S) costs to a weapon system. Without the knowledge of total actual costs and expenditures for the operation and support of a weapon system it is extremely difficult to know what and where improvements in costs can be made or what the actual cost drivers are.

The purpose of OSCR is the implementation of a reporting system that collects operating and support costs for a weapon system such as the C-130E. Information within the reporting system covers both base and depot (level) data pertaining to actual costs incurred for human and material resources. As indicated previously, only fragments of information are available to make historical comparisons of material resource costs of a weapon system. The OSCR is an extremely\_important effort that will fill this void and in future years provide a much more effective means to determine and/or historically compare and analyze the operating and support costs of a weapon system

The Operating and Support Cost Report System was implemented at the start of fiscal year 1975. OSCR being a new system, continuous efforts are being made to debug, purify and improve the data contained in the report as well as the data included in the feeder reports from the various bases and depots. Fiscal year 1976 data is being processed as of this date. In addition, the user's handbook has been developed and is in draft form. However, it has not been released as of this date.

Presentation, "Visibility and Management of Support Costs," MBO 9-2, Headquarters USAF/ACMCA, undated.

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#### APPENDIX H:

#### USAF MAINTENANCE COST SYSTEM (MCS)

USAF Maintenance Cost System (MCS) is a system, implemented in mid-1975, in which selected cost data at base level flows through various commands to Headquarters USAF and OASD (I&L and Comptroller). Its prime purpose is to provide various levels of maintenance management with comparative cost data by weapon and support systems. The elements of cost such as labor and material, when related to various categories of cost (i.e., direct costs, indirect productive costs, etc.), provide the information base for accomplishing the comparisons mentioned above.

The primary objectives of the MCS were to: 1) Design and implement a cost system for base level activities performing organizational and intermediate maintenance; 2) permit consolidation of both depot and base level maintenance costs into one report showing total Air Force Maintenance costs, and 3) provide data for life cycle costing. There are other objectives not mentioned here that are outlined in AFM 177-380

The accuracy of the maintenance cost system is dependent on the accuracy of the various reports and systems that feed data to it. These include the General Accounting System, Maintenance Data\_Collection System (MDC), MMICS Administrative Subsystem/Exception Time Accounting System (ETA), MMICS Status Subsystem/Aerospace Vehicle Status Report (A1), Standard Base Level Supply System - U1050-II (SBSS), and input from the Base Engine Manager. Information from Civilian Accured Annual Leave Cost Records and Maintenance Manhour Data Requirements from the Command Aircraft Maintenance Manpower Information System (CAMMIS) are also input to the MCS. Information from the above sources constitute the data contained in the various reports of the MCS. These organizational and intermediate maintenance cost reports of the MCS are:

- Work Breakdown Structure (WBS) Within Model/Design/Series (MDS) Within Program Element Code (PEC).
- 2. NON-MDS by WBS.

- 3. Work Accomplishment Code (WAC) Within MDS Within PEC.
- 4. NON-MDS by WAC.
- 5. By Indirect Productive Labor.

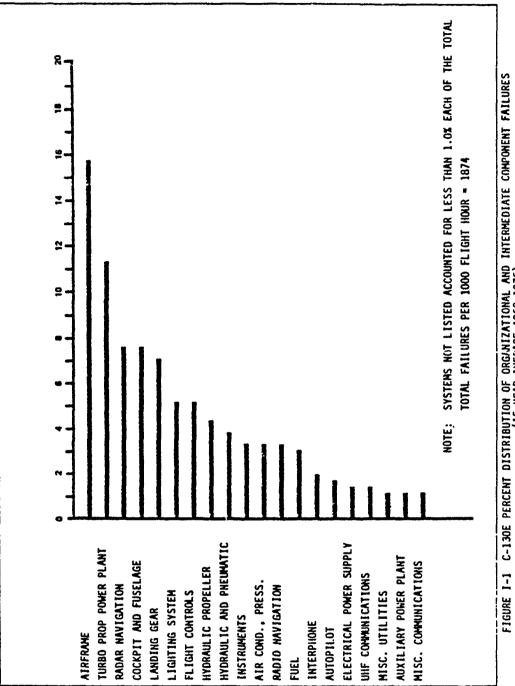
- 6. By Indirect Non-Productive Labor.
- 7. By Material Category.
- 8. By Customer.

The prime office of responsibility is the Air Force Finance Center, (AFAFC/XSM). Since this is a comparatively new system, efforts are presently being made to debug, purify and consolidate fleet wide data. As a result of being a newly developed system the only information that was usable in this study was discussed in the Material Resources area. It is felt that because of the objectives of this new system this detail discussion is appropriate, as the MCS could become a valuable cost data source for future studies.

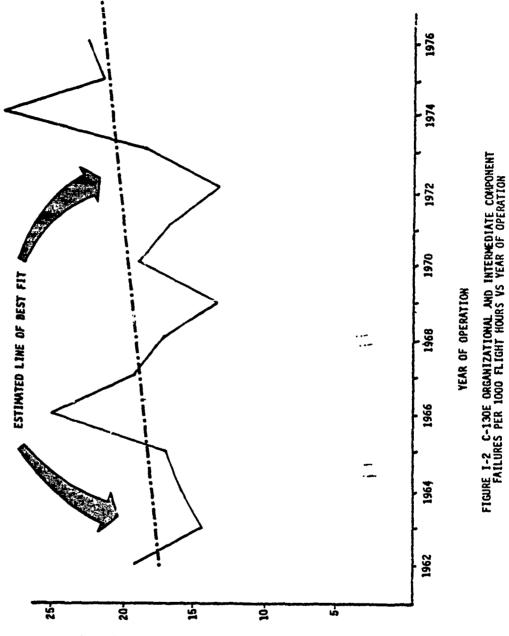
APPENDIX I

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RELIABILITY SUMMARIES



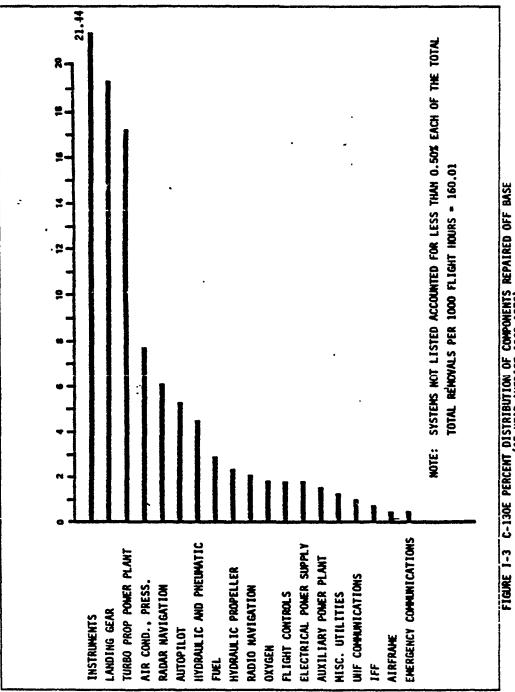
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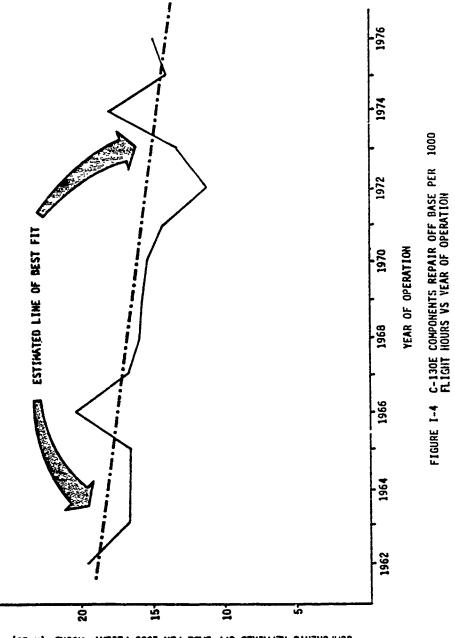




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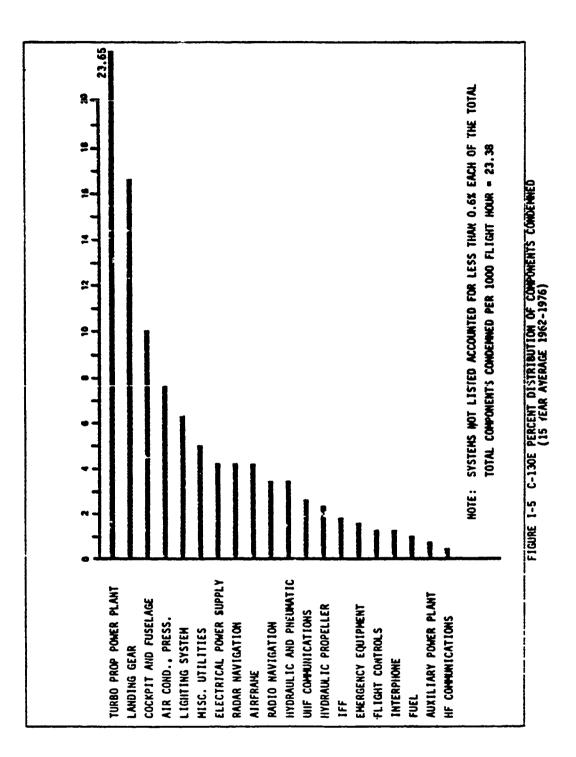


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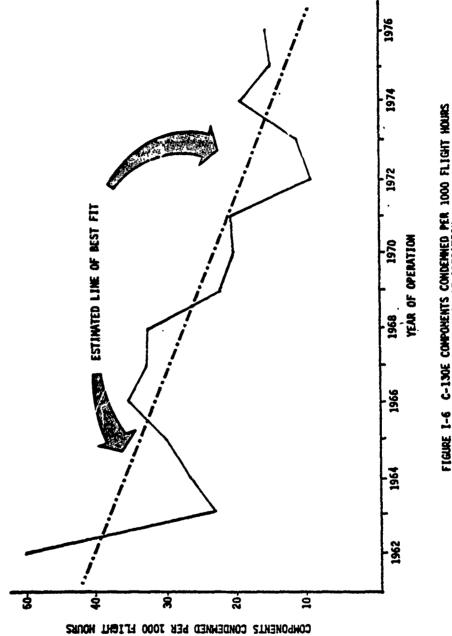
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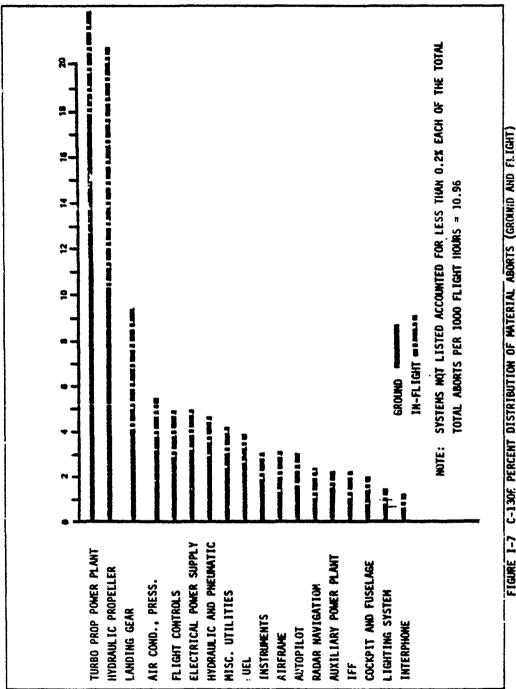
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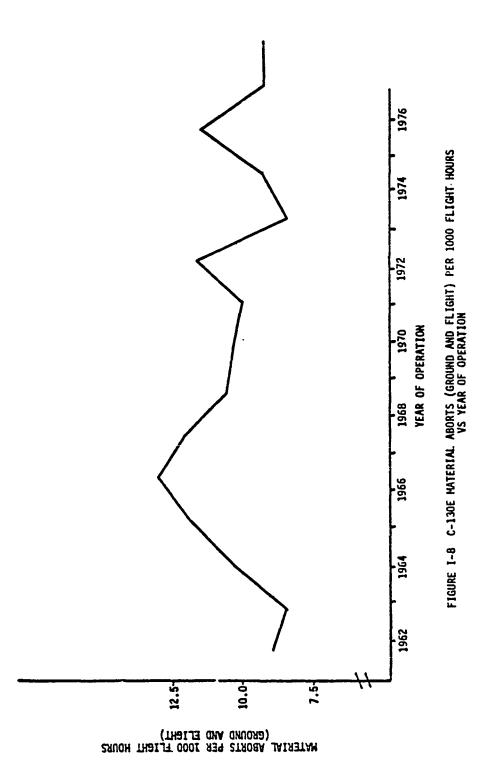
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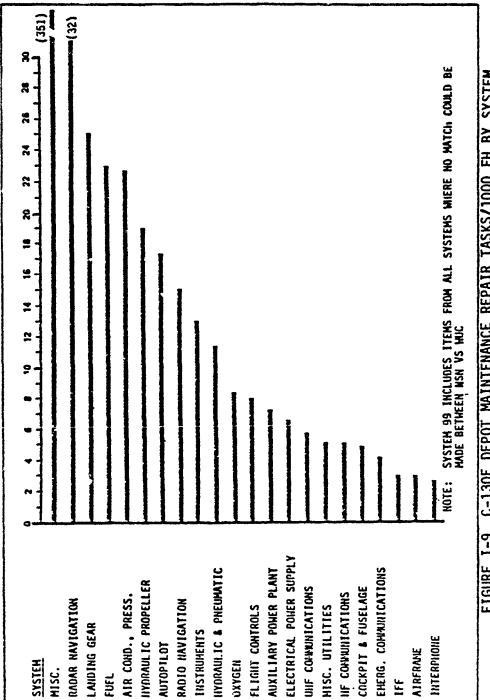
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FIGURE 1-7 C-130E PERCENT DISTRIBUTION OF MATERIAL ABORTS (GROWID AND FLIGHT) (15 YEAR AVERAGE 1962-1976)

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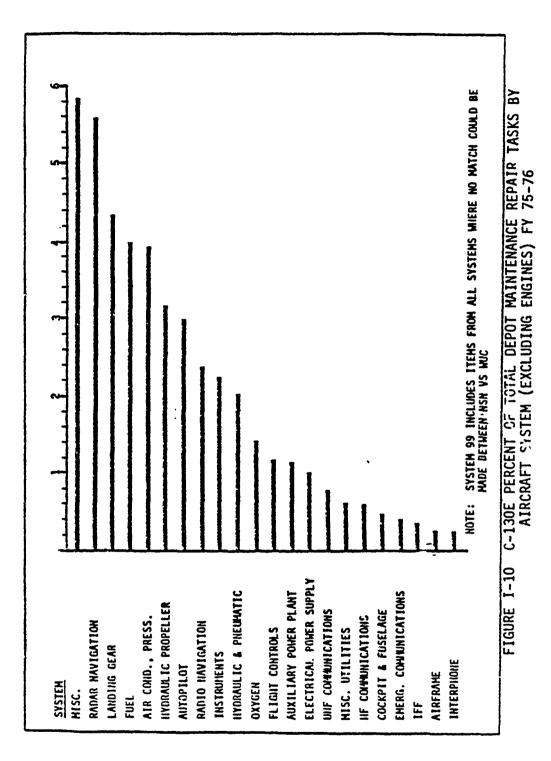




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FIGURE I-9 C-130E DEPOT MAINTENANCE REPAIR TASKS/1000 FH BY SYSTEM (EXCLUDING ENGINES) FY 75-76



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☆ U.S. GOVERNMENT PRINTING OFFICE. 1977-771-057/58